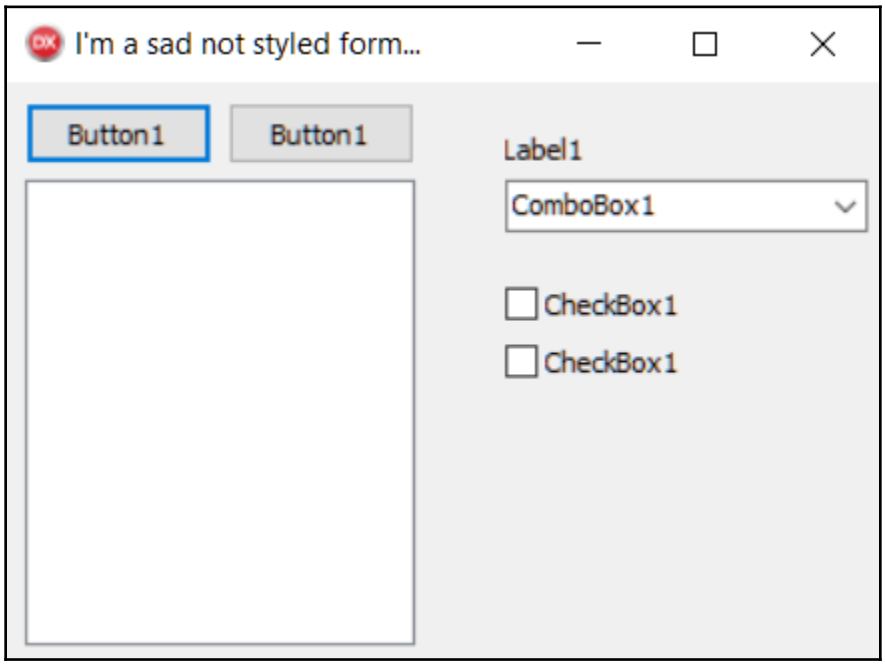
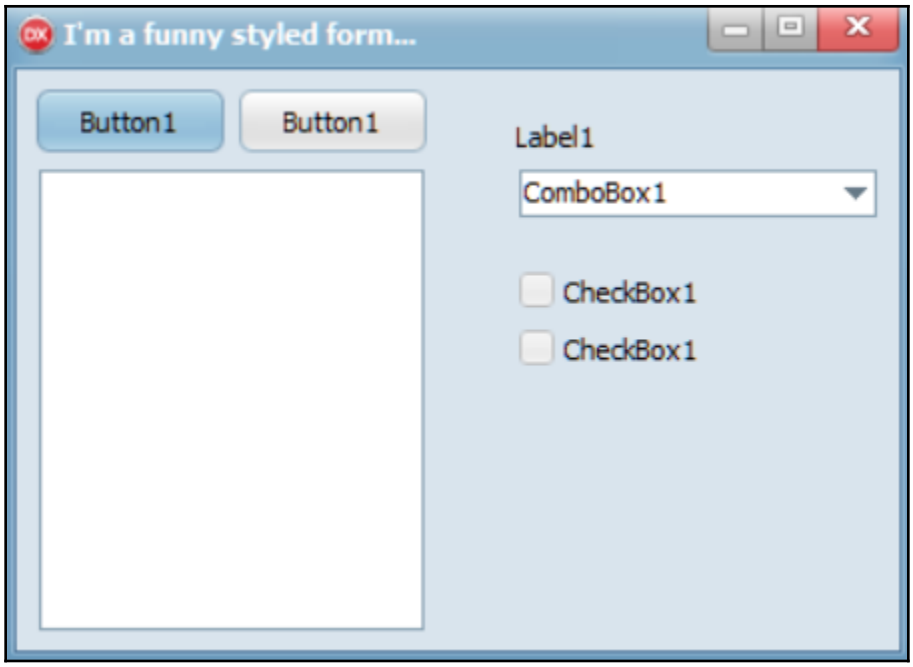
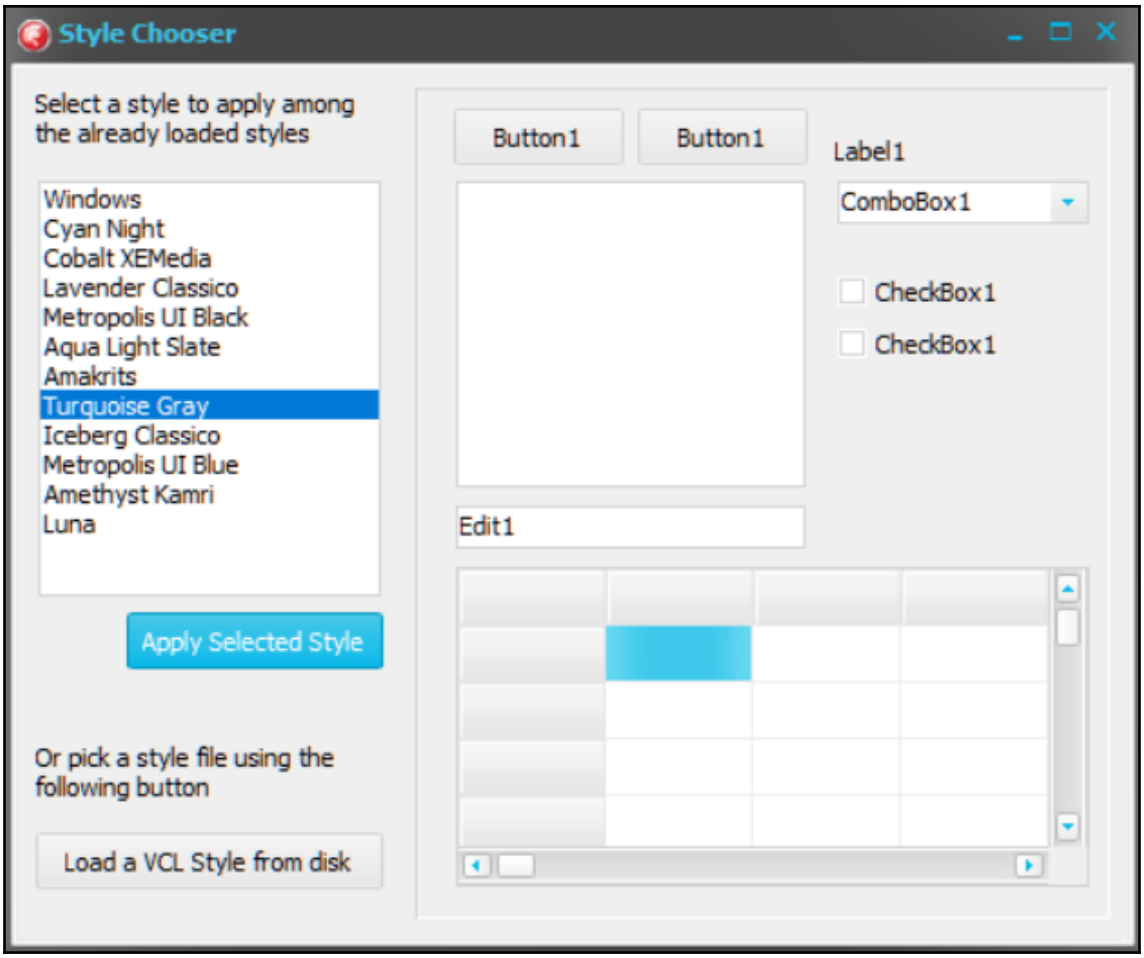
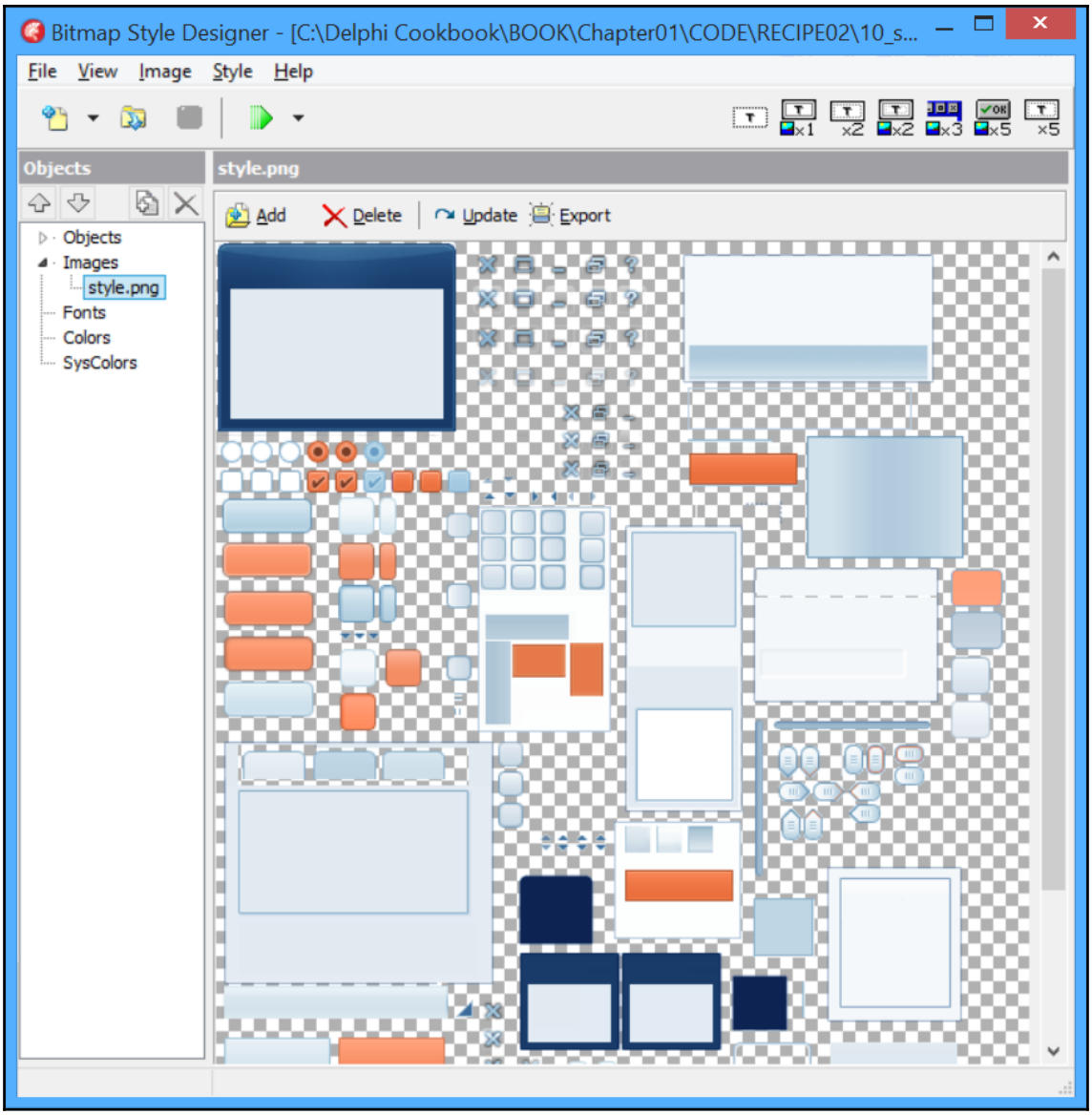
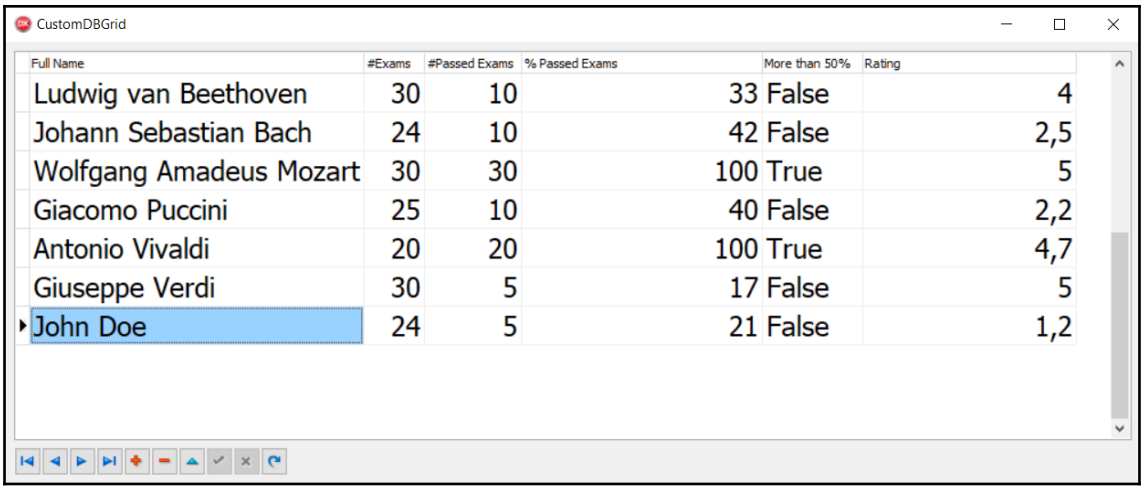
# Chapter 1: Delphi Basics

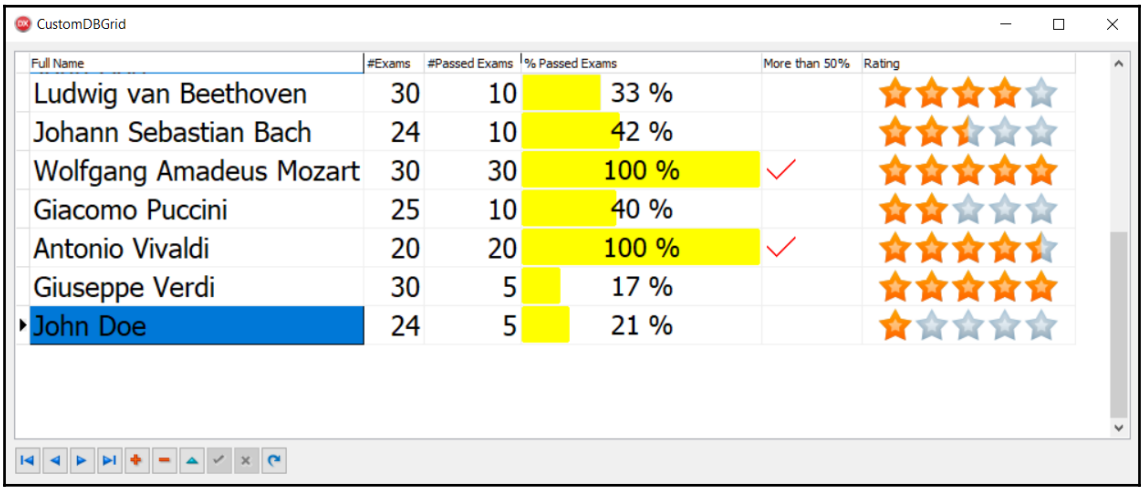


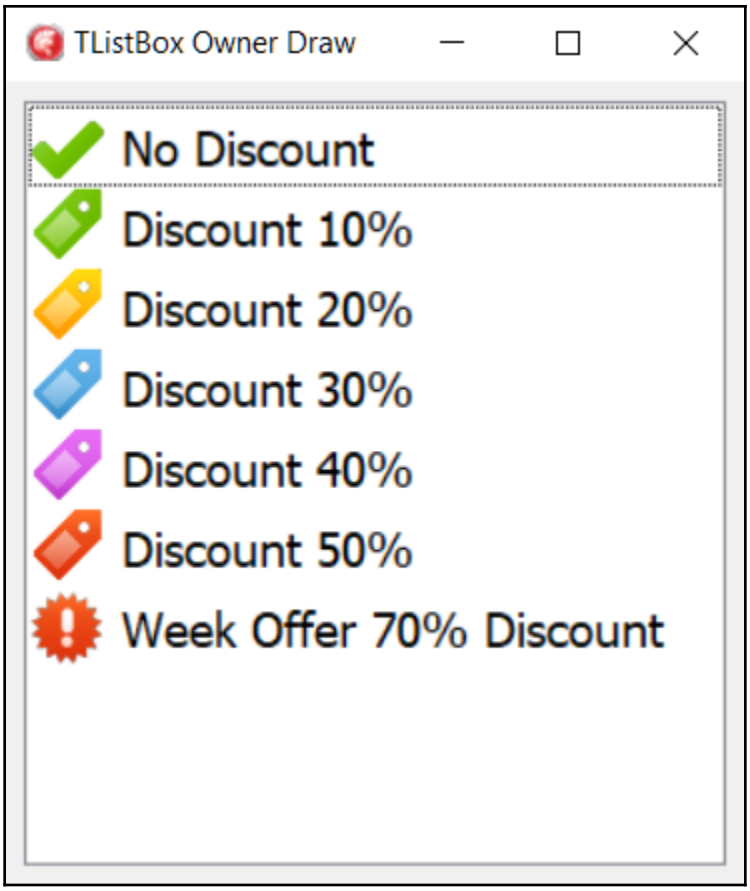

I'm a funny styled form...
Button1
Button1
Label1
ComboBox1
CheckBox1
CheckBox1

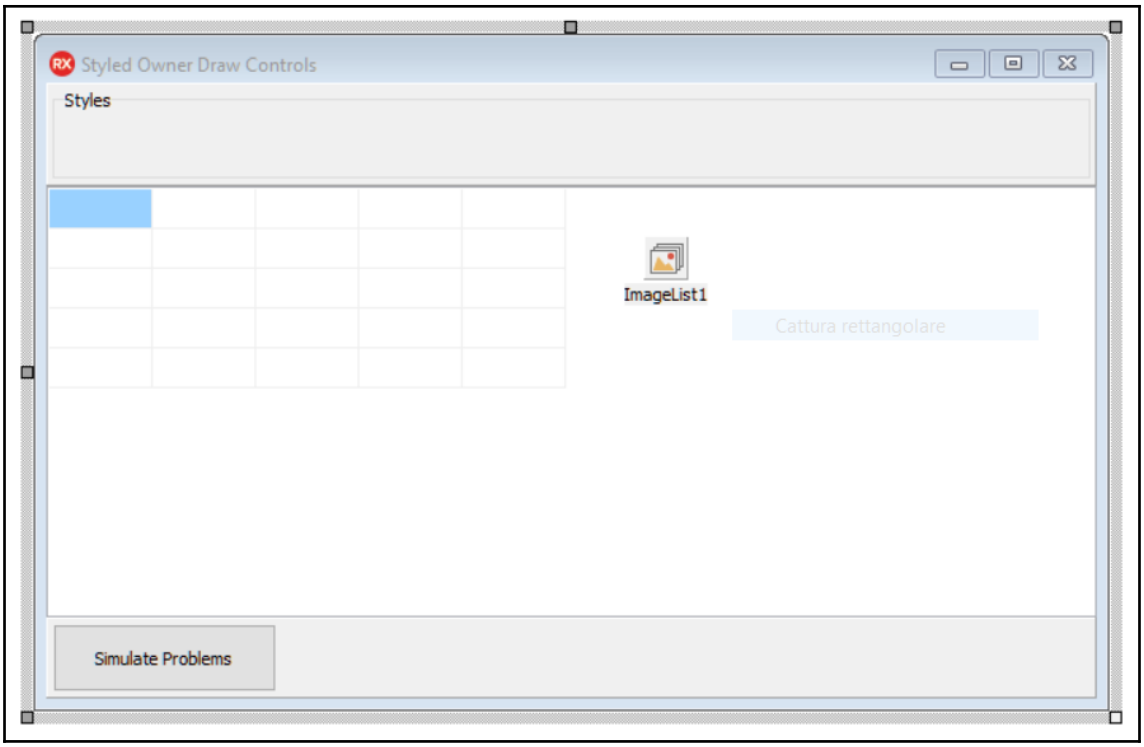

Style Chooser
Select a style to apply among the already loaded styles
Windows
Cyan Night
Cobalt XEMedia
Lavender Classico
Metropolis UI Black
Aqua Light Slate
Amakrits
Turquoise Gray
Iceberg Classico
Metropolis UI Blue
Amethyst Kamri
Luna
Apply Selected Style
Or pick a style file using the following button
Load a VCL Style from disk
Button1
Button1
Label1
ComboBox1
CheckBox1
CheckBox1
Edit1

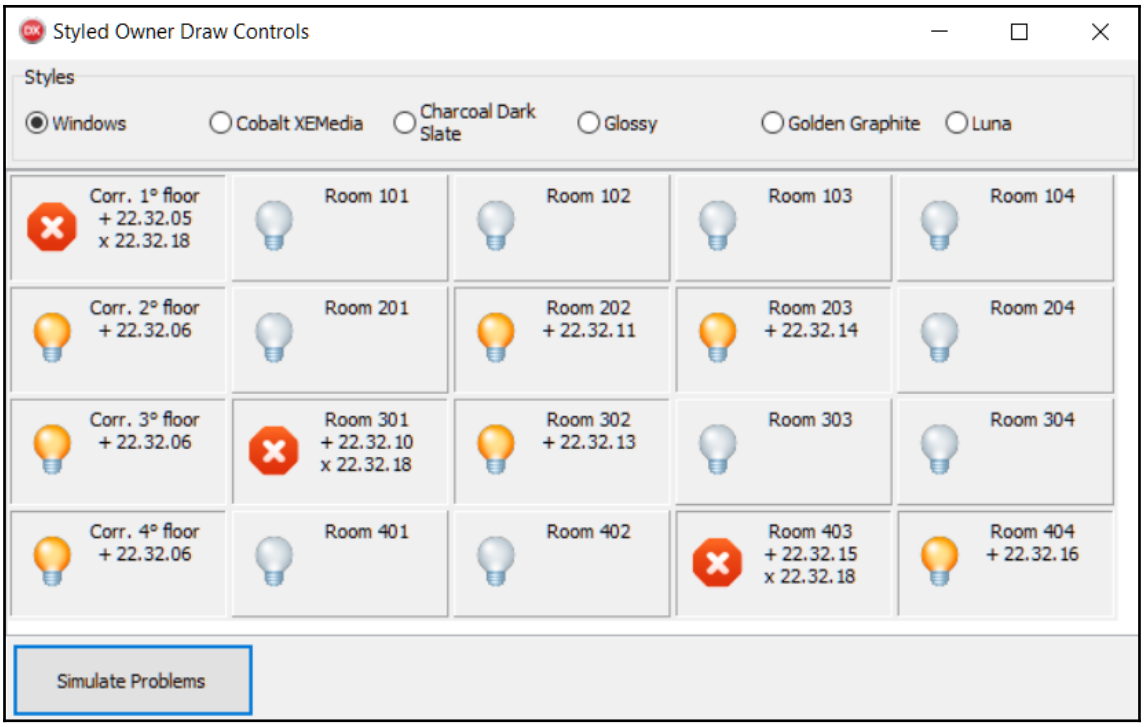

Bitmap Style Designer - [C:\Delphi Cookbook\BOOK\Chapter01\CODE\RECIPE02\10_s...
File View Image Style Help
Objects
style.png
Add Delete Update Export
Objects
Images
style.png
Fonts
Colors
SysColors

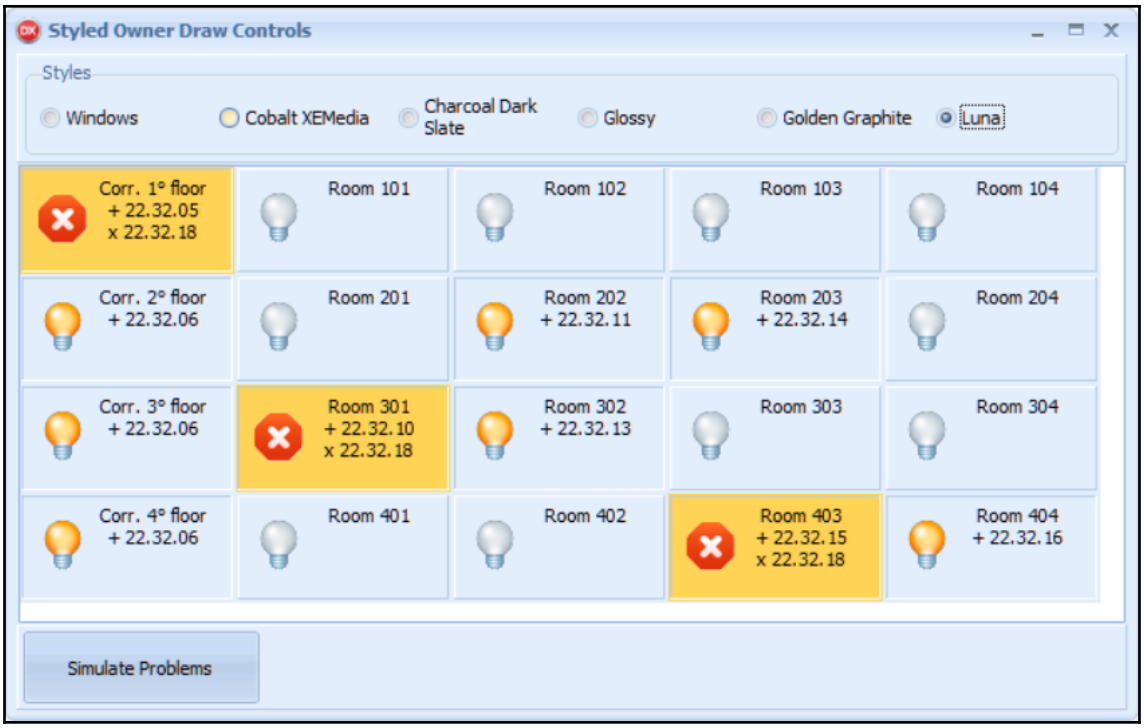

CustomDBGrid
Full Name
#Exams
#Passed Exams
% Passed Exams
More than 50%
Rating
Ludwig van Beethoven 30 10 33 False 4
Johann Sebastian Bach 24 10 42 False 2,5
Wolfgang Amadeus Mozart 30 30 100 True 5
Giacomo Puccini 25 10 40 False 2,2
Antonio Vivaldi 20 20 100 True 4,7
Giuseppe Verdi 30 5 17 False 5
John Doe 24 5 21 False 1,2

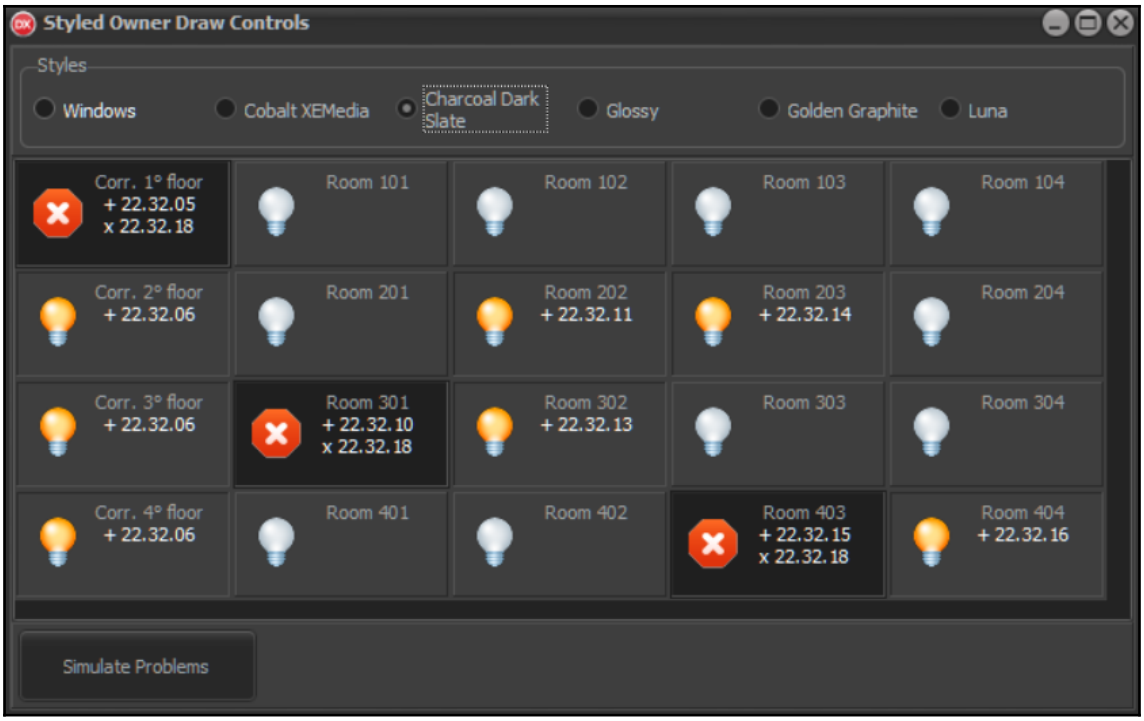

CustomDBGrid
Full Name
#Exams
#Passed Exams
% Passed Exams
More than 50%
Rating
Ludwig van Beethoven 30 10 33 %
Johann Sebastian Bach 24 10 42 %
Wolfgang Amadeus Mozart 30 30 100 %
Giacomo Puccini 25 10 40 %
Antonio Vivaldi 20 20 100 %
Giuseppe Verdi 30 5 17 %
John Doe 24 5 21 %

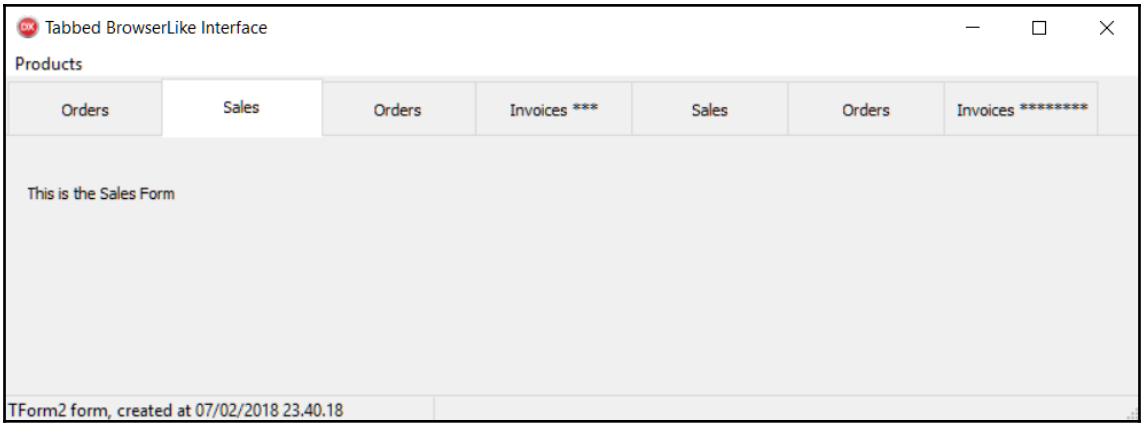

TListBox Owner Draw
No Discount
Discount 10%
Discount 20%
Discount 30%
Discount 40%
Discount 50%
Week Offer 70% Discount

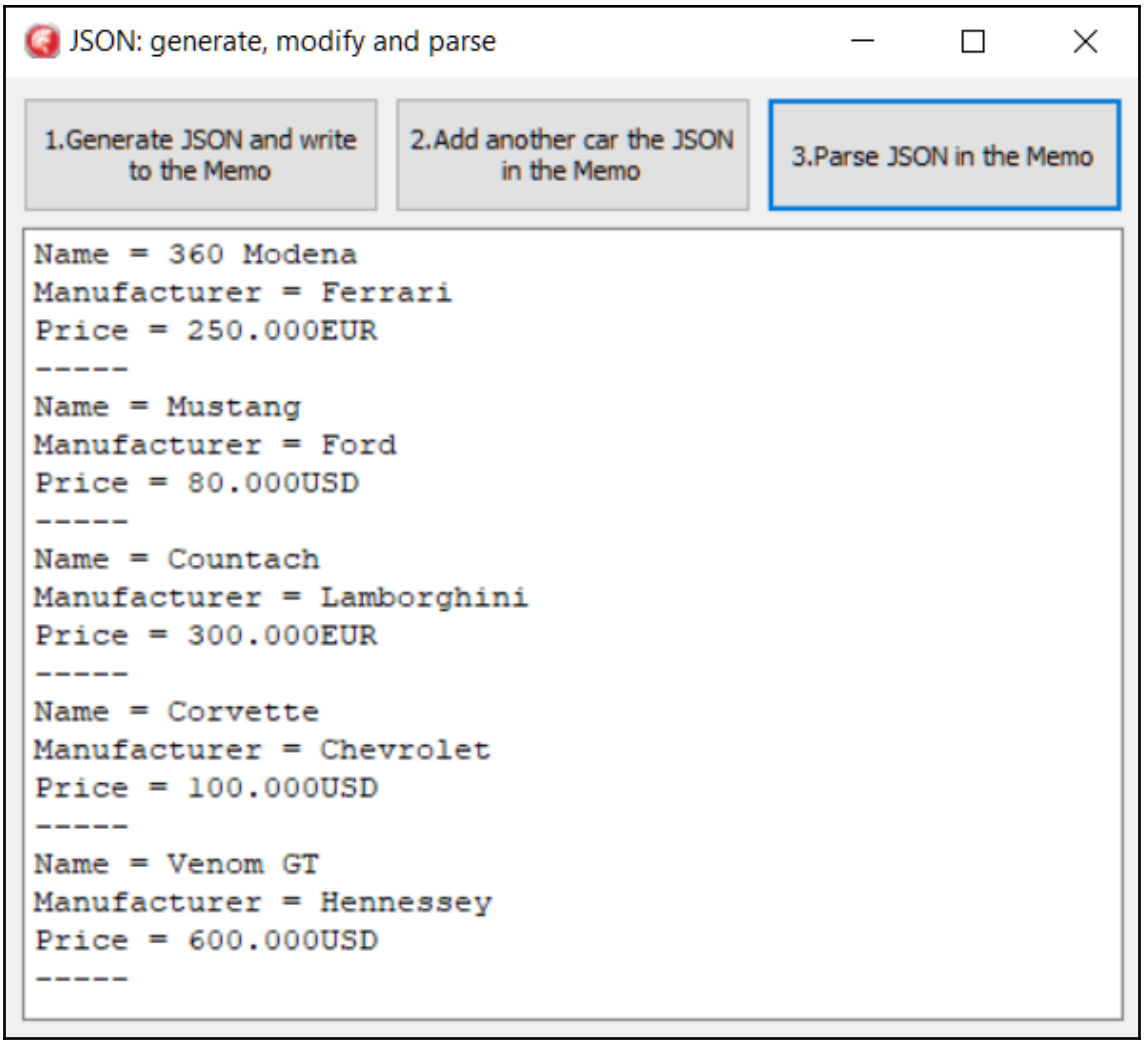

Styled Owner Draw Controls
Styles
ImageList1
Cattura rettangolare
Simulate Problems

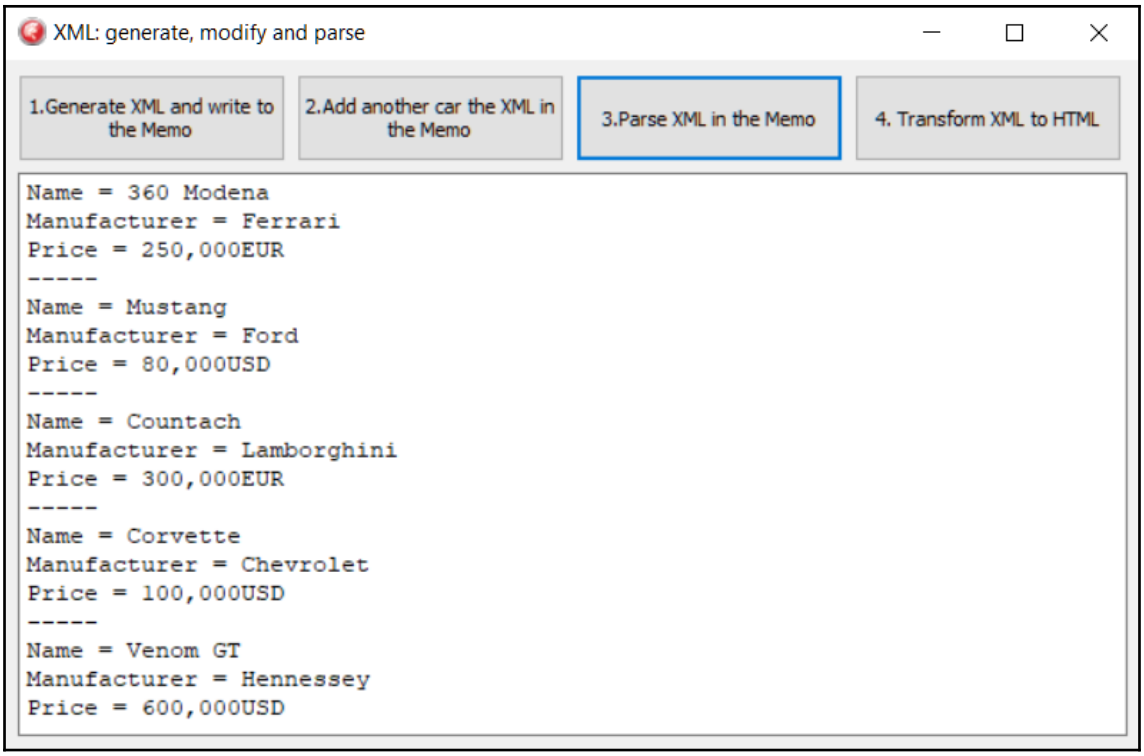

Styled Owner Draw Controls
Styles
Windows
Cobalt XEMedia
Charcoal Dark Slate
Glossy
Golden Graphite
Luna
Corr. 1° floor
+ 22.32.05
x 22.32.18
Room 101
Room 102
Room 103
Room 104
Corr. 2° floor
+ 22.32.06
Room 201
Room 202
+ 22.32.11
Room 203
+ 22.32.14
Room 204
Corr. 3° floor
+ 22.32.06
Room 301
+ 22.32.10
x 22.32.18
Room 302
+ 22.32.13
Room 303
Room 304
Corr. 4° floor
+ 22.32.06
Room 401
Room 402
Room 403
+ 22.32.15
x 22.32.18
Room 404
+ 22.32.16
Simulate Problems

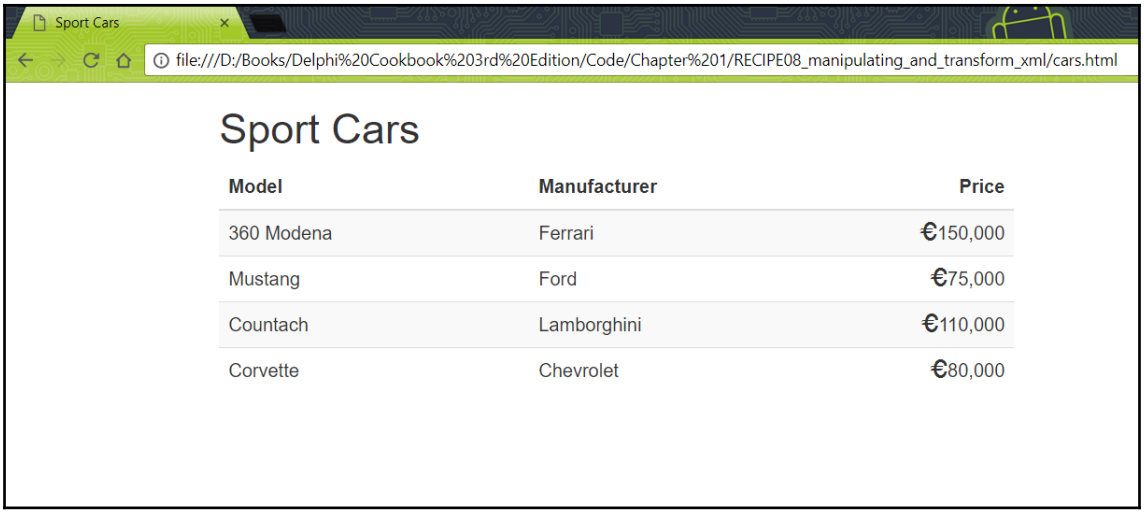

Styled Owner Draw Controls
Styles
Windows
Cobalt XEMedia
Charcoal Dark Slate
Glossy
Golden Graphite
Luna
Corr. 1° floor + 22.32.05 x 22.32.18
Room 101
Room 102
Room 103
Room 104
Corr. 2° floor + 22.32.06
Room 201
Room 202 + 22.32.11
Room 203 + 22.32.14
Room 204
Corr. 3° floor + 22.32.06
Room 301 + 22.32.10 x 22.32.18
Room 302 + 22.32.13
Room 303
Room 304
Corr. 4° floor + 22.32.06
Room 401
Room 402
Room 403 + 22.32.15 x 22.32.18
Room 404 + 22.32.16
Simulate Problems

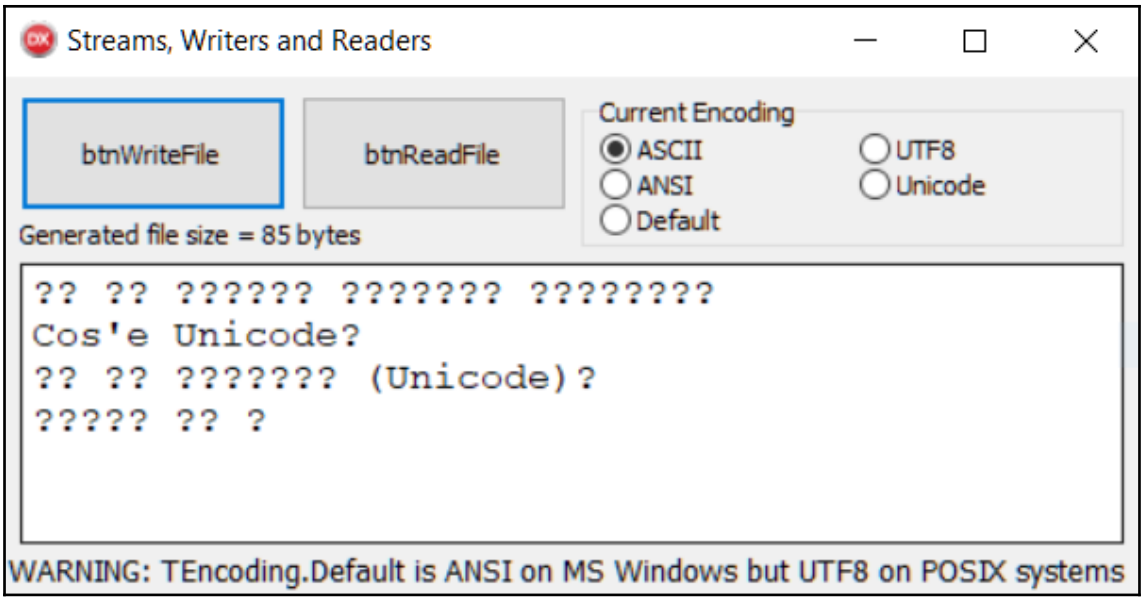

Styled Owner Draw Controls
Styles
Windows
Cobalt XEMedia
Charcoal Dark Slate
Glossy
Golden Graphite
Luna
Corr. 1° floor
+ 22.32.05
x 22.32.18
Room 101
Room 102
Room 103
Room 104
Corr. 2° floor
+ 22.32.06
Room 201
Room 202
+ 22.32.11
Room 203
+ 22.32.14
Room 204
Corr. 3° floor
+ 22.32.06
Room 301
+ 22.32.10
x 22.32.18
Room 302
+ 22.32.13
Room 303
Room 304
Corr. 4° floor
+ 22.32.06
Room 401
Room 402
Room 403
+ 22.32.15
x 22.32.18
Room 404
+ 22.32.16
Simulate Problems

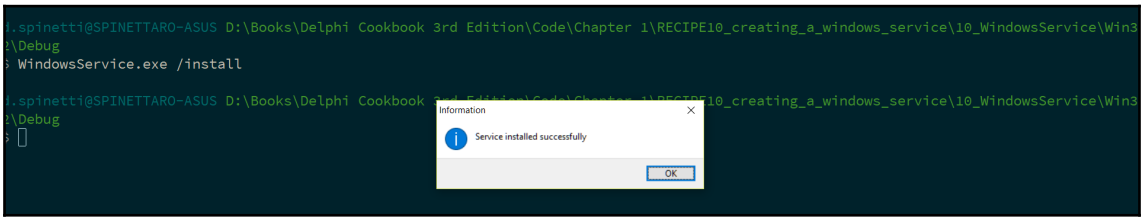

Tabbed BrowserLike Interface
Products
Orders
Sales
Orders
Invoices ***
Sales
Orders
Invoices ********
This is the Sales Form
TForm2 form, created at 07/02/2018 23.40.18

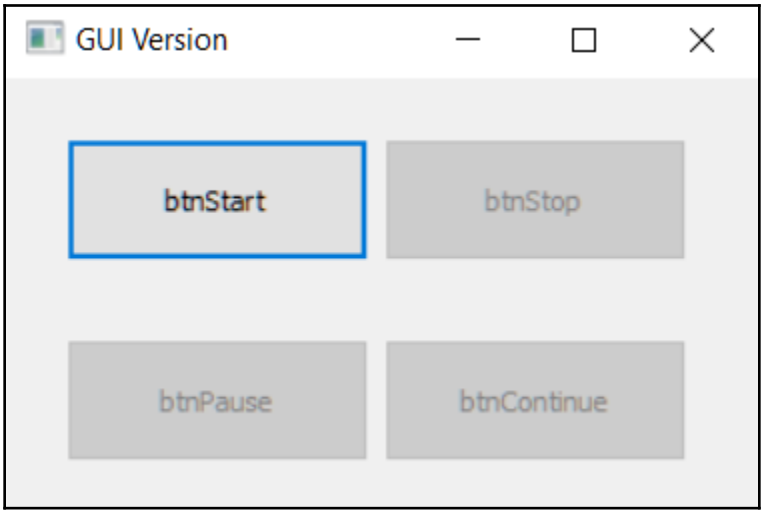

JSON: generate, modify and parse
1.Generate JSON and write to the Memo
2.Add another car the JSON in the Memo
3.Parse JSON in the Memo
Name = 360 Modena
Manufacturer = Ferrari
Price = 250.000EUR
-----
Name = Mustang
Manufacturer = Ford
Price = 80.000USD
-----
Name = Countach
Manufacturer = Lamborghini
Price = 300.000EUR
-----
Name = Corvette
Manufacturer = Chevrolet
Price = 100.000USD
-----
Name = Venom GT
Manufacturer = Hennessey
Price = 600.000USD
-----

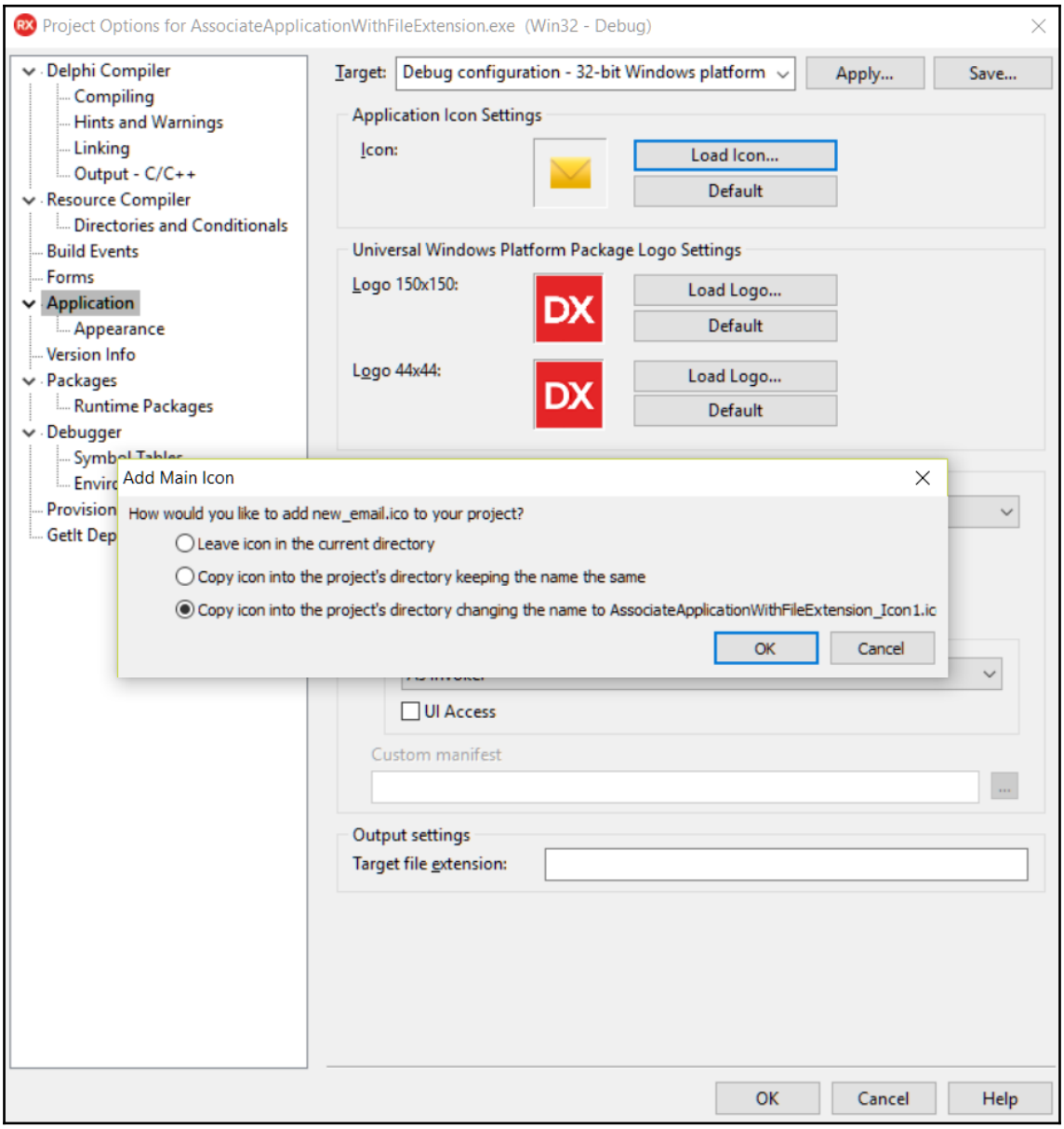

XML: generate, modify and parse
1.Generate XML and write to the Memo
2.Add another car the XML in the Memo
3.Parse XML in the Memo
4. Transform XML to HTML
Name = 360 Modena
Manufacturer = Ferrari
Price = 250,000EUR
-----
Name = Mustang
Manufacturer = Ford
Price = 80,000USD
-----
Name = Countach
Manufacturer = Lamborghini
Price = 300,000EUR
-----
Name = Corvette
Manufacturer = Chevrolet
Price = 100,000USD
-----
Name = Venom GT
Manufacturer = Hennessey
Price = 600,000USD

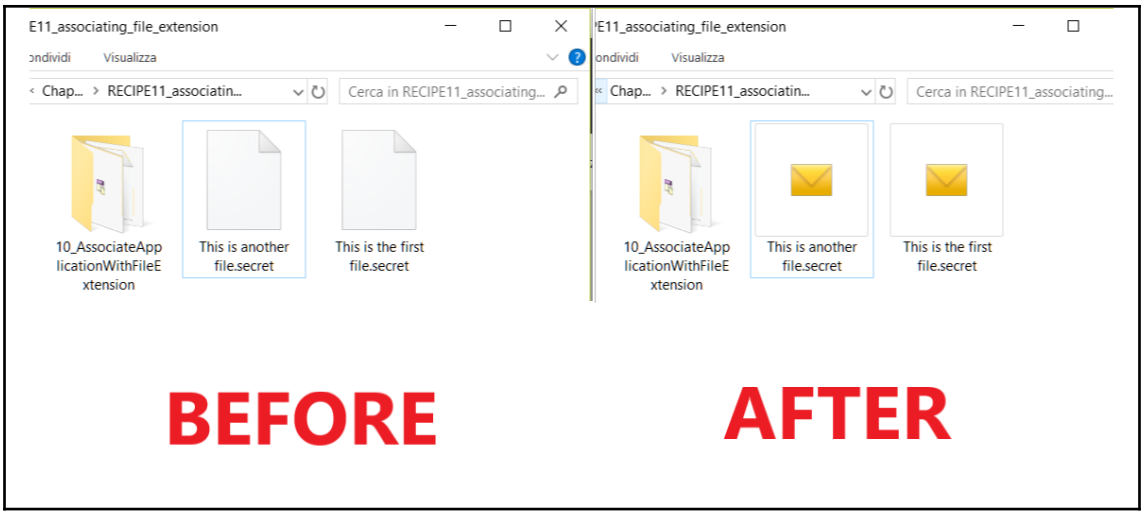

Sport Cars
file:///D:/Books/Delphi%20Cookbook%203rd%20Edition/Code/Chapter%201/RECIPE08_manipulating_and_transform_xml/cars.html
Sport Cars
Model
Manufacturer
Price
360 Modena
Ferrari
€150,000
Mustang
Ford
€75,000
Countach
Lamborghini
€110,000
Corvette
Chevrolet
€80,000

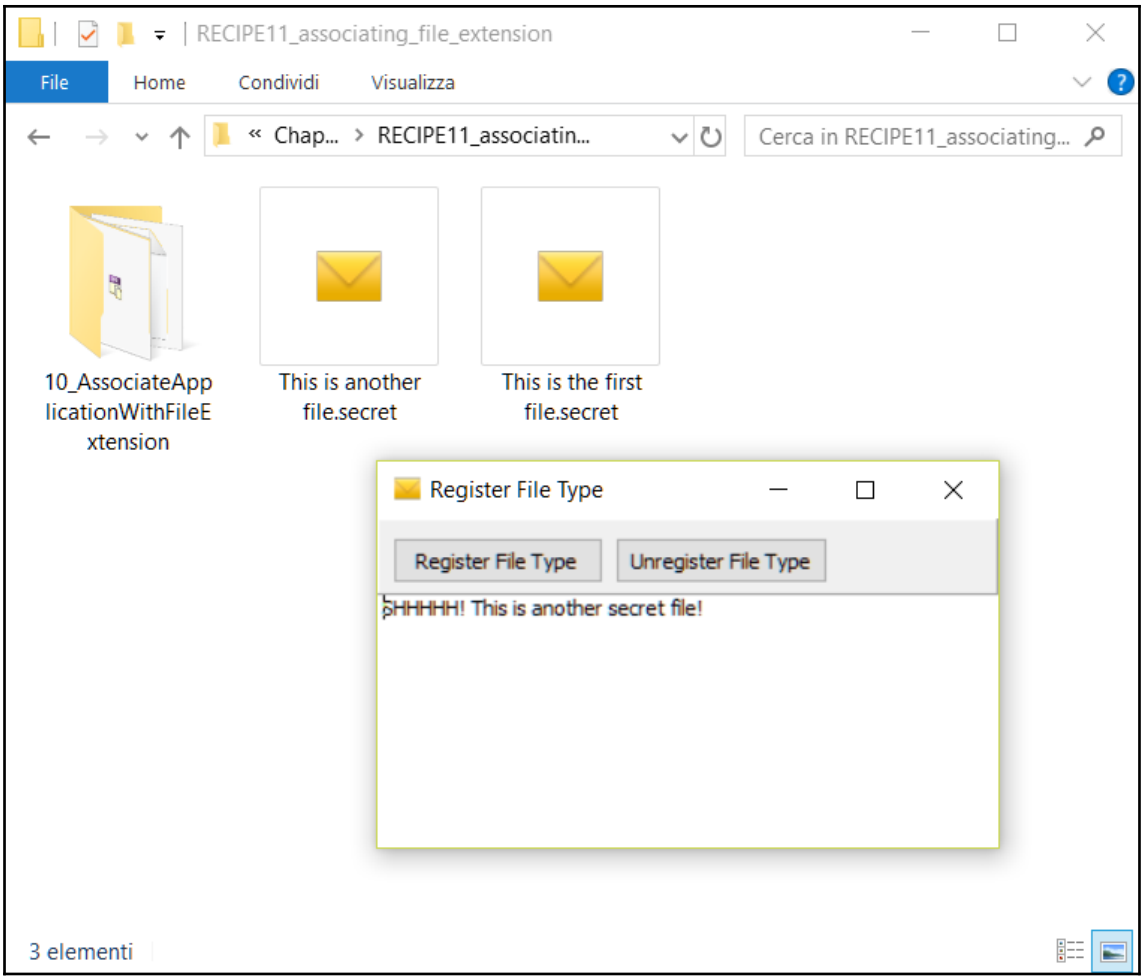

Streams, Writers and Readers
btnWriteFile
btnReadFile
Current Encoding
ASCII
ANSI
Default
UTF8
Unicode
Generated file size = 85 bytes
?? ?? ?????? ??????? ????????
Cos'e Unicode?
?? ?? ??????? (Unicode)?
????? ?? ?
WARNING: TEncoding.Default is ANSI on MS Windows but UTF8 on POSIX systems

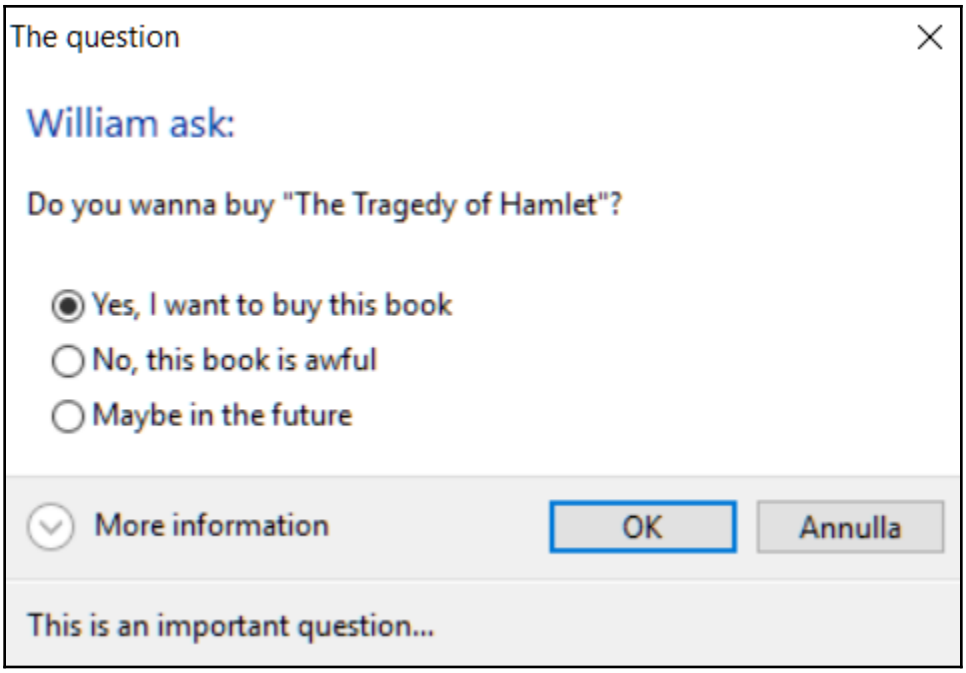

WindowsService.exe /install
Information
Service installed successfully
OK

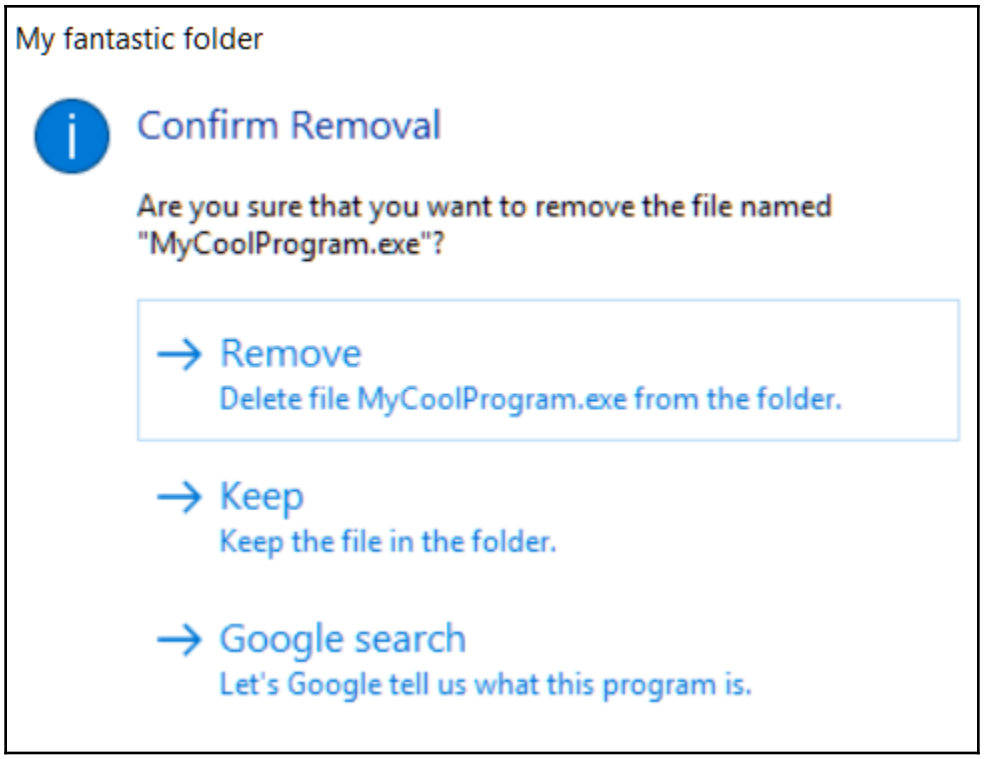

GUI Version
btnStart
btnStop
btnPause
btnContinue

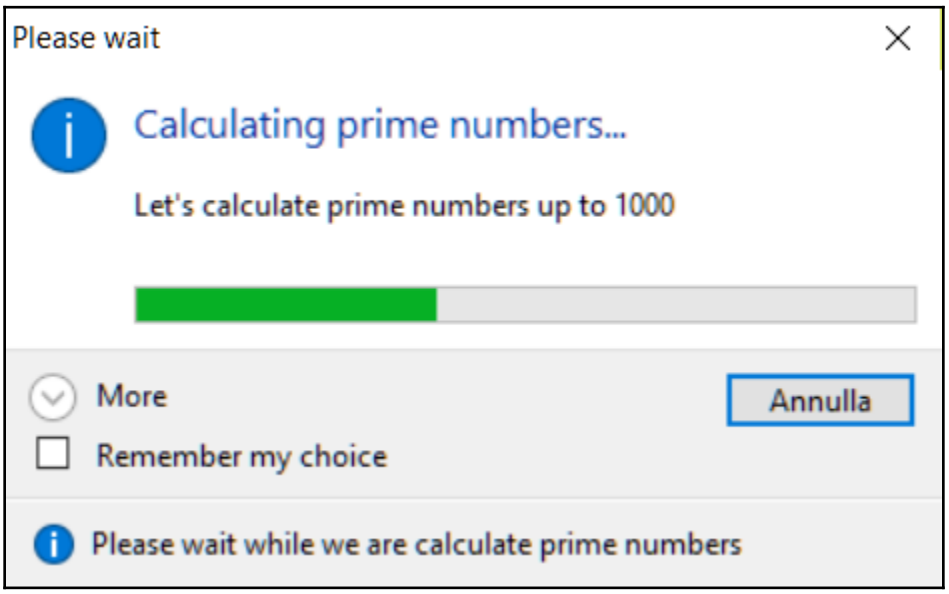

Project Options for AssociateApplicationWithFileExtension.exe (Win32 - Debug)
Delphi Compiler
Compiling
Hints and Warnings
Linking
Output - C/C++
Resource Compiler
Directories and Conditionals
Build Events
Forms
Application
Appearance
Version Info
Packages
Runtime Packages
Debugger
Target:
Debug configuration - 32-bit Windows platform
Apply...
Save...
Application Icon Settings
Icon:
Load Icon...
Default
Universal Windows Platform Package Logo Settings
Logo 150x150:
Load Logo...
Default
Logo 44x44:
Load Logo...
Default
Add Main Icon
How would you like to add new_email.ico to your project?
Leave icon in the current directory
Copy icon into the project's directory keeping the name the same
Copy icon into the project's directory changing the name to AssociateApplicationWithFileExtension_Icon1.ic
OK
Cancel
UI Access
Custom manifest
Output settings
Target file extension:
OK
Cancel
Help

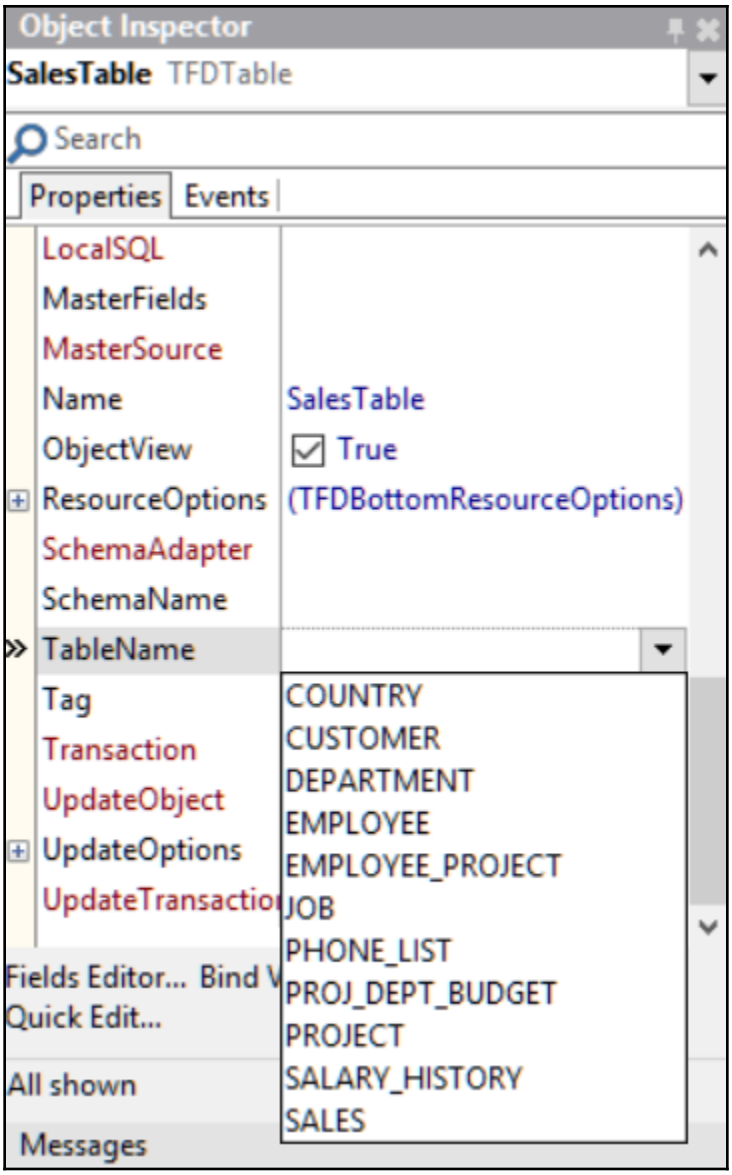

E11_associating_file_extension
ondividi
Visualizza
Chap...
RECIPE11_associatin...
Cerca in RECIPE11_associating...
10_AssociateApplicationWithFileExtension
This is another file.secret
This is the first file.secret
BEFORE
E11_associating_file_extension
ondividi
Visualizza
Chap...
RECIPE11_associatin...
Cerca in RECIPE11_associating...
10_AssociateApplicationWithFileExtension
This is another file.secret
This is the first file.secret
AFTER

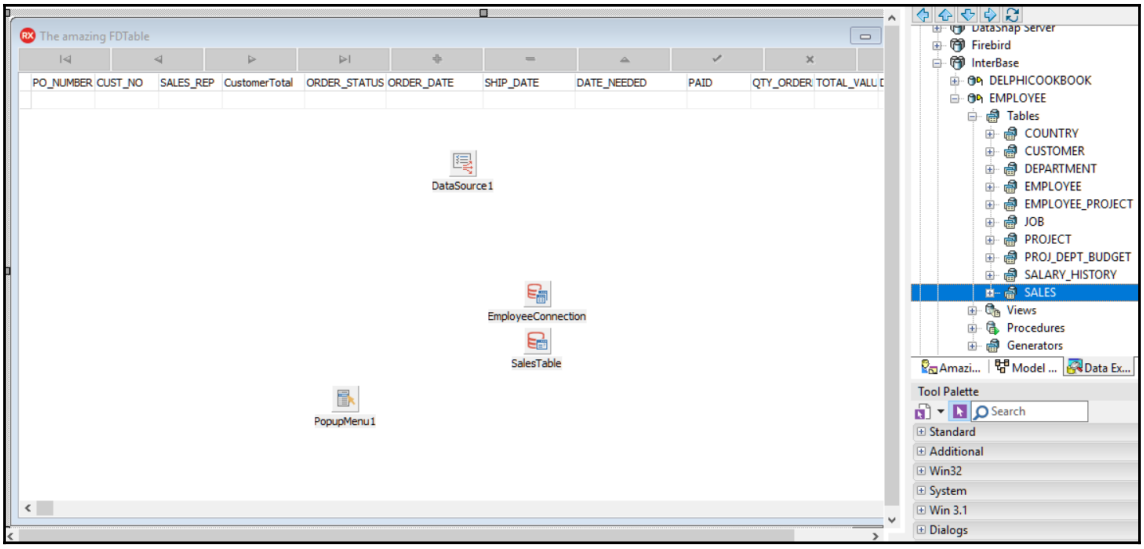

RECIPE11_associating_file_extension
File
Home
Condividi
Visualizza
« Chap... › RECIPE11_associatin...
Cerca in RECIPE11_associating...
10_AssociateApplicationWithFileExtension
This is another file.secret
This is the first file.secret
Register File Type
Register File Type
Unregister File Type
SHHHHH! This is another secret file!
3 elementi


The question
William ask:
Do you wanna buy "The Tragedy of Hamlet"?
Yes, I want to buy this book
No, this book is awful
Maybe in the future
More information
OK
Annulla
This is an important question...


My fantastic folder
Confirm Removal
Are you sure that you want to remove the file named "MyCoolProgram.exe"?
Remove
Delete file MyCoolProgram.exe from the folder.
Keep
Keep the file in the folder.
Google search
Let's Google tell us what this program is.

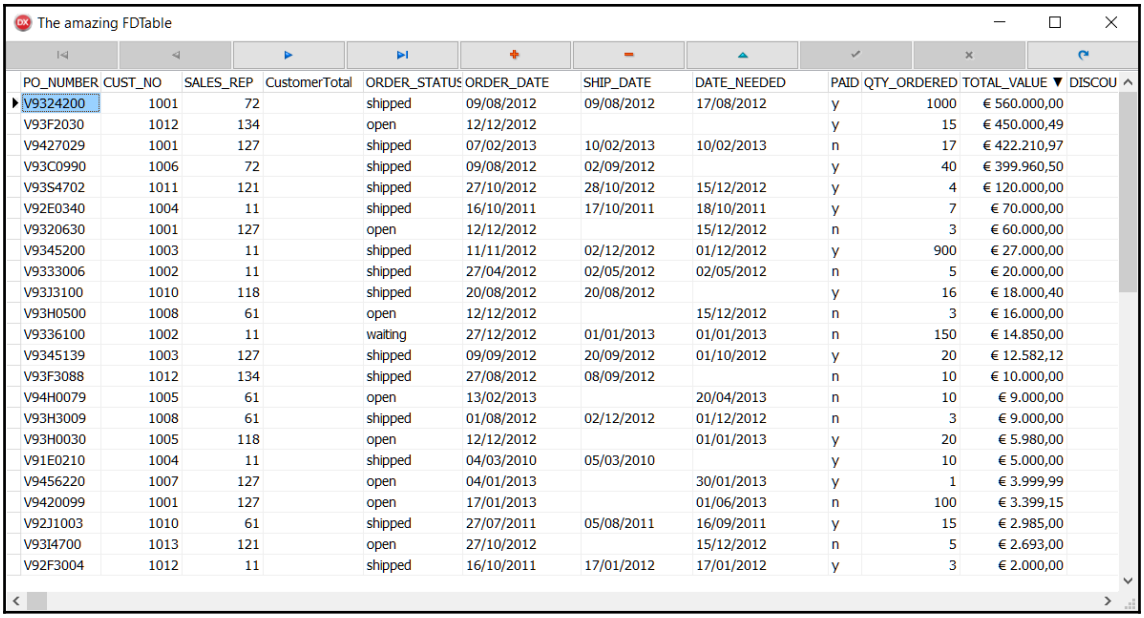

Please wait
Calculating prime numbers...
Let's calculate prime numbers up to 1000
More
Annulla
Remember my choice
Please wait while we are calculate prime numbers

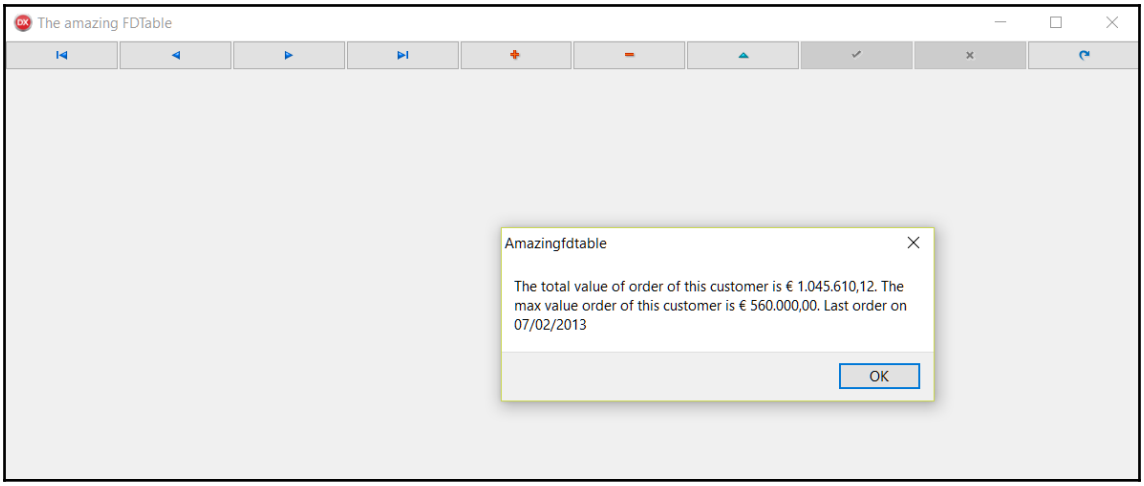

Object Inspector
SalesTable TFDTable
Search
Properties
Events
LocalSQL
MasterFields
MasterSource
Name
SalesTable
ObjectView
True
ResourceOptions
(TFDBottomResourceOptions)
SchemaAdapter
SchemaName
TableName
Tag
Transaction
UpdateObject
UpdateOptions
UpdateTransactio
COUNTRY
CUSTOMER
DEPARTMENT
EMPLOYEE
EMPLOYEE_PROJECT
JOB
PHONE_LIST
PROJ_DEPT_BUDGET
PROJECT
SALARY_HISTORY
SALES
Fields Editor... Bind V
Quick Edit...
All shown
Messages

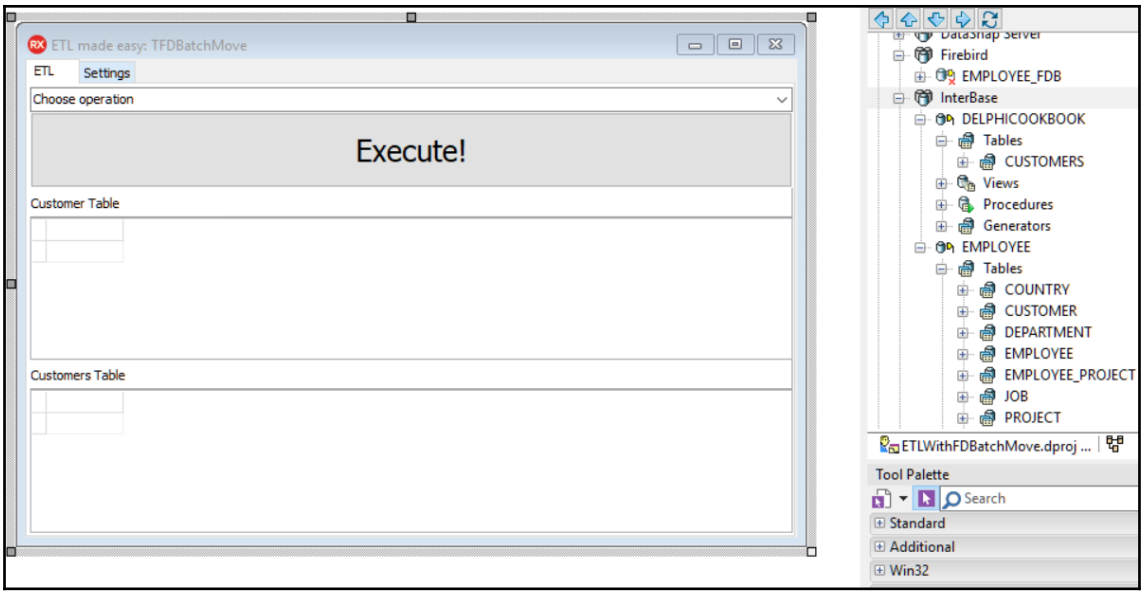


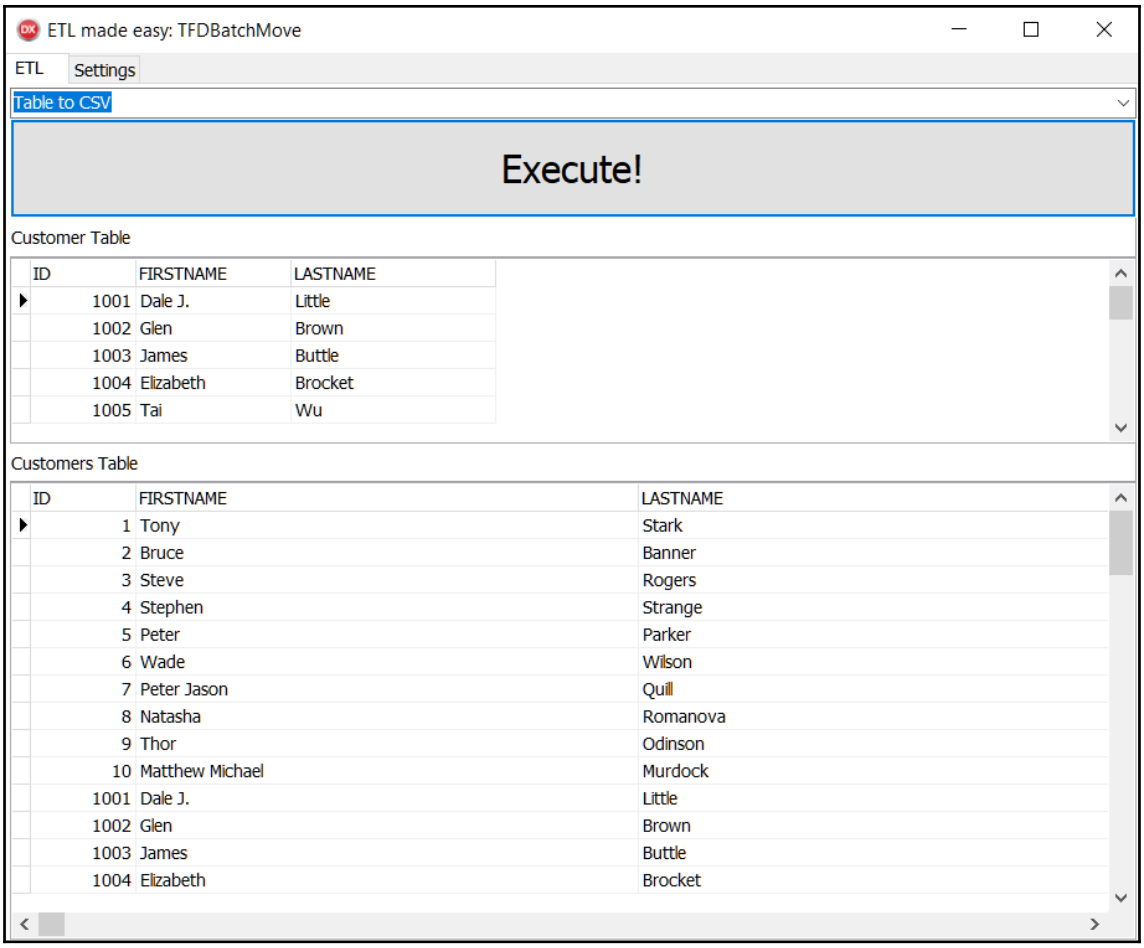

The amazing FDTable

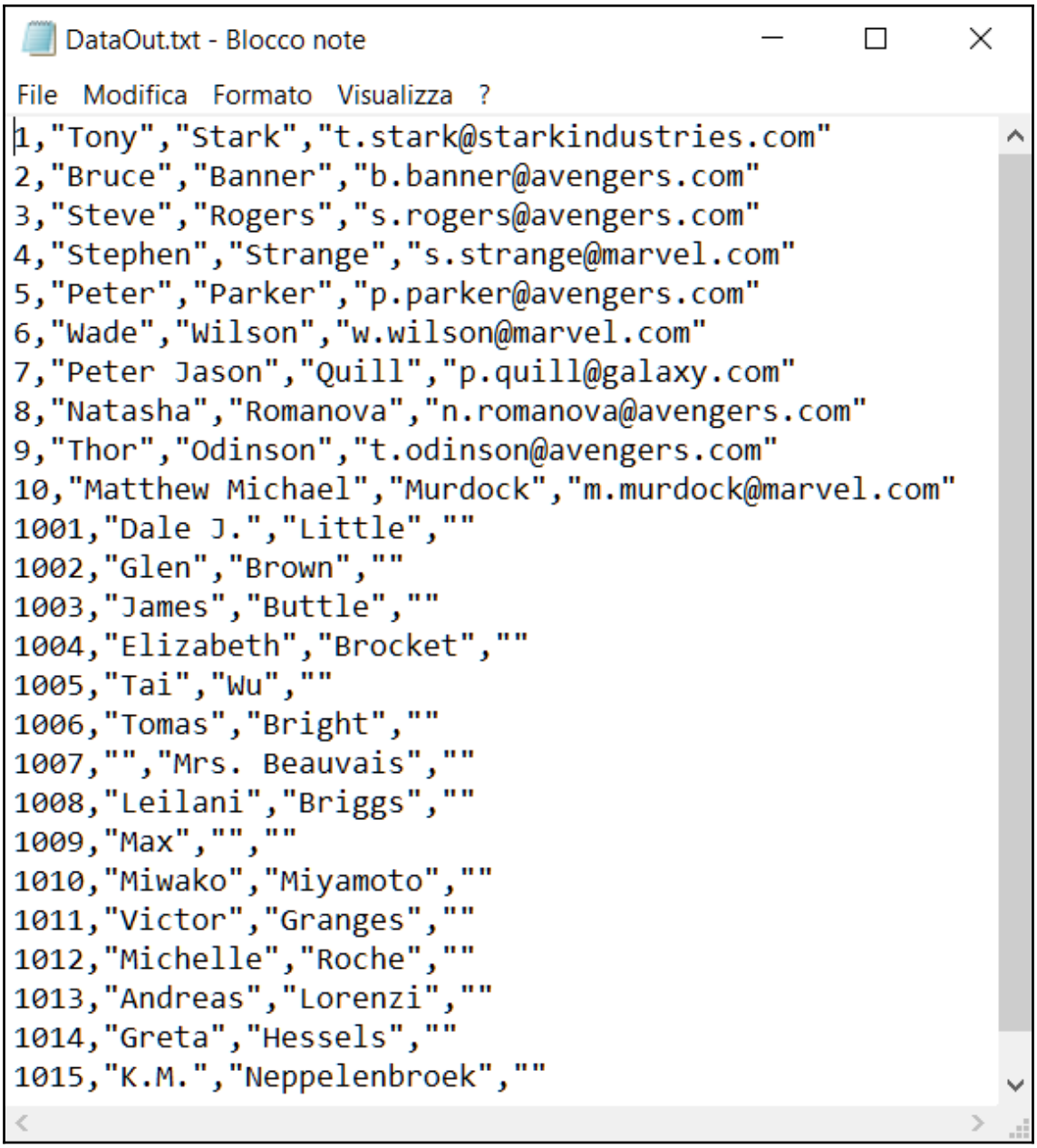
| PO_NUMBER | CUST_NO | SALES_REP | CustomerTotal | ORDER_STATUS | ORDER_DATE | SHIP_DATE | DATE_NEEDED | PAID | QTY_ORDERED | TOTAL_VALUE | DISCOUNT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| V9324200 | 1001 | 72 | | shipped | 09/08/2012 | 09/08/2012 | 17/08/2012 | y | 1000 | € 560.000,00 | 0, |
| V9324320 | 1001 | 127 | | shipped | 16/08/2012 | 16/08/2012 | 01/09/2012 | y | 1 | € 0,00 | |
| V9320630 | 1001 | 127 | | open | 12/12/2012 | | 15/12/2012 | n | 3 | € 60.000,00 | 0, |
| V9420099 | 1001 | 127 | | open | 17/01/2013 | | 01/06/2013 | n | 100 | € 3.399,15 | 0,1 |
| V9427029 | 1001 | 127 | | shipped | 07/02/2013 | 10/02/2013 | 10/02/2013 | n | 17 | € 422.210,97 | |
| V9333005 | 1002 | 11 | | shipped | 04/02/2012 | 03/03/2012 | | y | 2 | € 600,50 | |
| V9333006 | 1002 | 11 | | shipped | 27/04/2012 | 02/05/2012 | 02/05/2012 | n | 5 | € 20.000,00 | |
| V9336100 | 1002 | 11 | | waiting | 27/12/2012 | 01/01/2013 | 01/01/2013 | n | 150 | € 14.850,00 | 0,0 |
| V9346200 | 1003 | 11 | | waiting | 31/12/2012 | | 24/01/2013 | n | 3 | € 0,00 | |
| V9345200 | 1003 | 11 | | shipped | 11/11/2012 | 02/12/2012 | 01/12/2012 | y | 900 | € 27.000,00 | 0, |
| V9345139 | 1003 | 127 | | shipped | 09/09/2012 | 20/09/2012 | 01/10/2012 | y | 20 | € 12.582,12 | 0, |
| V91E0210 | 1004 | 11 | | shipped | 04/03/2010 | 05/03/2010 | | y | 10 | € 5.000,00 | 0, |
| V92E0340 | 1004 | 11 | | shipped | 16/10/2011 | 17/10/2011 | 18/10/2011 | y | 7 | € 70.000,00 | |
| V93H0030 | 1005 | 118 | | open | 12/12/2012 | | 01/01/2013 | y | 20 | € 5.980,00 | 0, |
| V94H0079 | 1005 | 61 | | open | 13/02/2013 | | 20/04/2013 | n | 10 | € 9.000,00 | 0,0 |
| V93C0120 | 1006 | 72 | | shipped | 22/03/2012 | 31/05/2012 | 17/04/2012 | y | 1 | € 47,50 | |
| V93C0990 | 1006 | 72 | | shipped | 09/08/2012 | 02/09/2012 | | y | 40 | € 399.960,50 | 0, |
| V9456220 | 1007 | 127 | | open | 04/01/2013 | | 30/01/2013 | y | 1 | € 3.999,99 | |
| V93H3009 | 1008 | 61 | | shipped | 01/08/2012 | 02/12/2012 | 01/12/2012 | n | 3 | € 9.000,00 | 0,0 |
| V93H0500 | 1008 | 61 | | open | 12/12/2012 | | 15/12/2012 | n | 3 | € 16.000,00 | 0, |
| V93F0020 | 1009 | 61 | | shipped | 10/10/2012 | 11/11/2012 | 11/11/2012 | n | 1 | € 490,69 | |
| V92J1003 | 1010 | 61 | | shipped | 27/07/2011 | 05/08/2011 | 16/09/2011 | y | 15 | € 2.985,00 | |
| V93J2004 | 1010 | 118 | | shipped | 30/10/2012 | 02/12/2012 | 15/11/2012 | y | 3 | € 210,00 | |

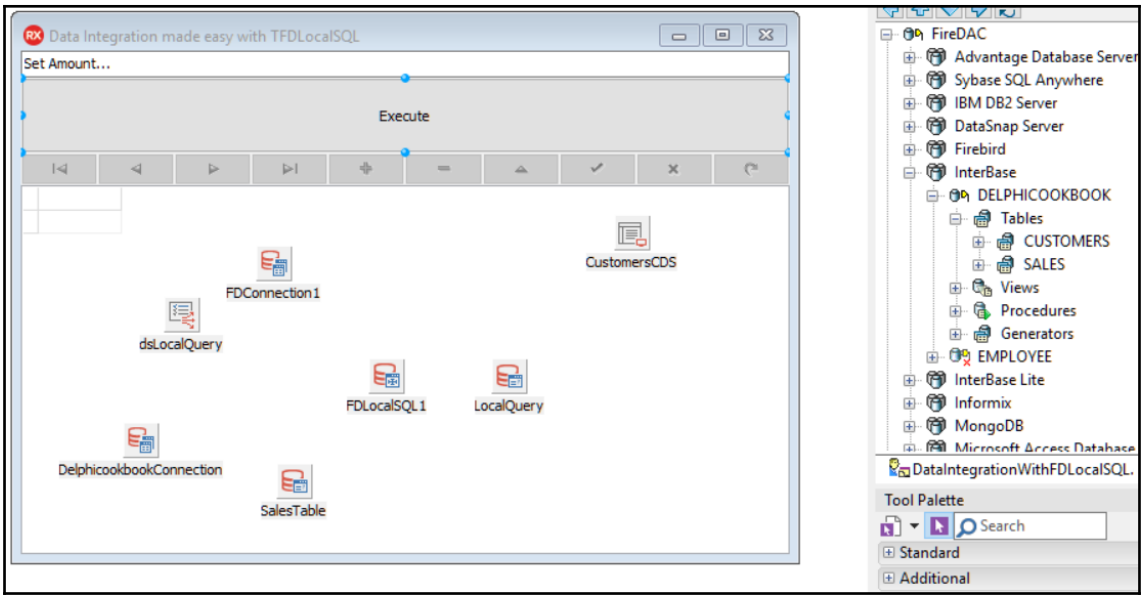

The amazing FDTable
PO_NUMBER CUST_NO SALES_REP CustomerTotal ORDER_STATUS ORDER_DATE SHIP_DATE DATE_NEEDED PAID QTY_ORDERED TOTAL_VALUE ▼ DISCOU
V9324200 1001 72 shipped 09/08/2012 09/08/2012 17/08/2012 y 1000 € 560.000,00
V93F2030 1012 134 open 12/12/2012 y 15 € 450.000,49
V9427029 1001 127 shipped 07/02/2013 10/02/2013 10/02/2013 n 17 € 422.210,97
V93C0990 1006 72 shipped 09/08/2012 02/09/2012 y 40 € 399.960,50
V93S4702 1011 121 shipped 27/10/2012 28/10/2012 15/12/2012 y 4 € 120.000,00
V92E0340 1004 11 shipped 16/10/2011 17/10/2011 18/10/2011 y 7 € 70.000,00
V9320630 1001 127 open 12/12/2012 15/12/2012 n 3 € 60.000,00
V9345200 1003 11 shipped 11/11/2012 02/12/2012 01/12/2012 y 900 € 27.000,00
V9333006 1002 11 shipped 27/04/2012 02/05/2012 02/05/2012 n 5 € 20.000,00
V93J3100 1010 118 shipped 20/08/2012 20/08/2012 y 16 € 18.000,40
V93H0500 1008 61 open 12/12/2012 15/12/2012 n 3 € 16.000,00
V9336100 1002 11 waiting 27/12/2012 01/01/2013 01/01/2013 n 150 € 14.850,00
V9345139 1003 127 shipped 09/09/2012 20/09/2012 01/10/2012 y 20 € 12.582,12
V93F3088 1012 134 shipped 27/08/2012 08/09/2012 n 10 € 10.000,00
V94H0079 1005 61 open 13/02/2013 20/04/2013 n 10 € 9.000,00
V93H3009 1008 61 shipped 01/08/2012 02/12/2012 01/12/2012 n 3 € 9.000,00
V93H0030 1005 118 open 12/12/2012 01/01/2013 y 20 € 5.980,00
V91E0210 1004 11 shipped 04/03/2010 05/03/2010 y 10 € 5.000,00
V9456220 1007 127 open 04/01/2013 30/01/2013 y 1 € 3.999,99
V9420099 1001 127 open 17/01/2013 01/06/2013 n 100 € 3.399,15
V92J1003 1010 61 shipped 27/07/2011 05/08/2011 16/09/2011 y 15 € 2.985,00
V93I4700 1013 121 open 27/10/2012 15/12/2012 n 5 € 2.693,00
V92F3004 1012 11 shipped 16/10/2011 17/01/2012 17/01/2012 y 3 € 2.000,00

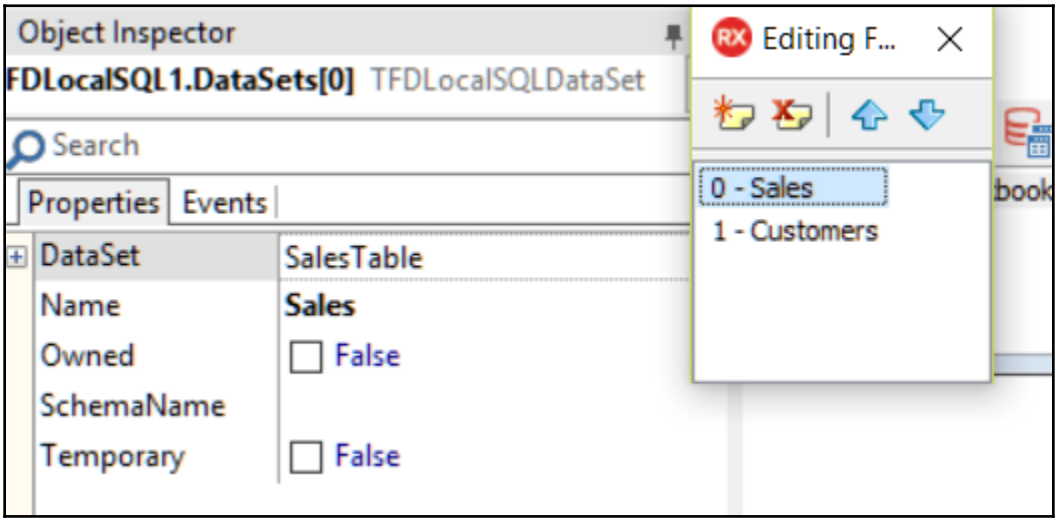

The amazing FDTable
Amazingfdtable
The total value of order of this customer is € 1.045.610,12. The max value order of this customer is € 560.000,00. Last order on 07/02/2013
OK

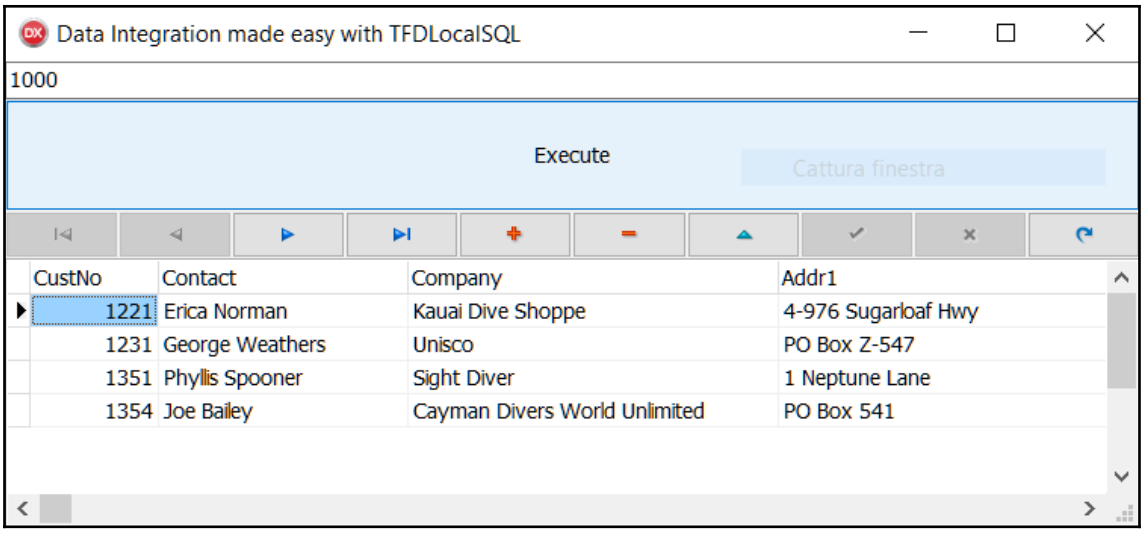

ETL made easy: TFDBatchMove
ETL
Settings
Choose operation
Execute!
Customer Table
Customers Table
Firebird
EMPLOYEE_FDB
InterBase
DELPHICOOKBOOK
Tables
CUSTOMERS
Views
Procedures
Generators
EMPLOYEE
Tables
COUNTRY
CUSTOMER
DEPARTMENT
EMPLOYEE
EMPLOYEE_PROJECT
JOB
PROJECT
ETLWithFDBatchMove.dproj ...
Tool Palette
Search
Standard
Additional
Win32

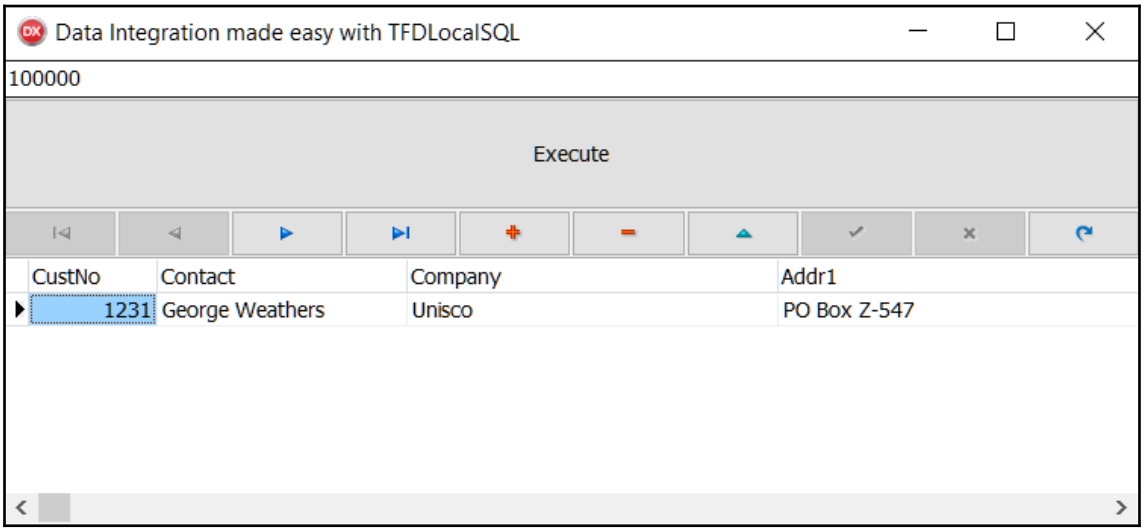

ETL made easy: TFDBatchMove
ETL
Settings
Table to CSV
Execute!
Customer Table
ID FIRSTNAME LASTNAME
1001 Dale J. Little
1002 Glen Brown
1003 James Buttle
1004 Elizabeth Brocket
1005 Tai Wu
Customers Table
ID FIRSTNAME LASTNAME
1 Tony Stark
2 Bruce Banner
3 Steve Rogers
4 Stephen Strange
5 Peter Parker
6 Wade Wilson
7 Peter Jason Quill
8 Natasha Romanova
9 Thor Odinson
10 Matthew Michael Murdock
1001 Dale J. Little
1002 Glen Brown
1003 James Buttle
1004 Elizabeth Brocket


DataOut.txt - Blocco note
File Modifica Formato Visualizza ?
1,"Tony","Stark","t.stark@starkindustries.com"
2,"Bruce","Banner","b.banner@avengers.com"
3,"Steve","Rogers","s.rogers@avengers.com"
4,"Stephen","Strange","s.strange@marvel.com"
5,"Peter","Parker","p.parker@avengers.com"
6,"Wade","Wilson","w.wilson@marvel.com"
7,"Peter Jason","Quill","p.quill@galaxy.com"
8,"Natasha","Romanova","n.romanova@avengers.com"
9,"Thor","Odinson","t.odinson@avengers.com"
10,"Matthew Michael","Murdock","m.murdock@marvel.com"
1001,"Dale J.","Little",""
1002,"Glen","Brown",""
1003,"James","Buttle",""
1004,"Elizabeth","Brocket",""
1005,"Tai","Wu",""
1006,"Tomas","Bright",""
1007,"","Mrs. Beauvais",""
1008,"Leilani","Briggs",""
1009,"Max","",""
1010,"Miwako","Miyamoto",""
1011,"Victor","Granges",""
1012,"Michelle","Roche",""
1013,"Andreas","Lorenzi",""
1014,"Greta","Hessels",""
1015,"K.M.","Neppelenbroek",""

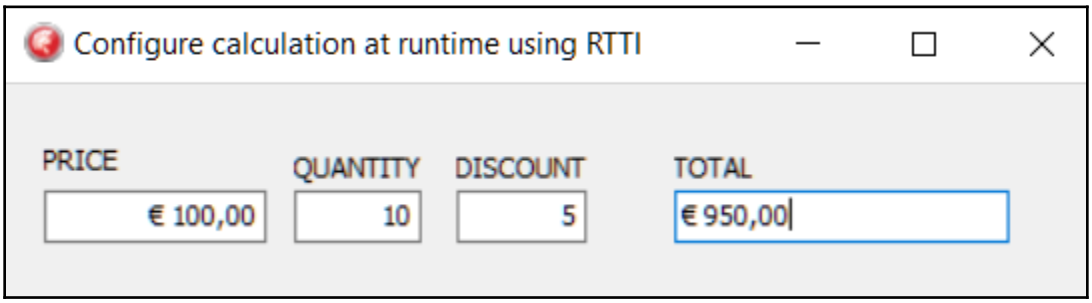

Data Integration made easy with TFDLocalSQL
Set Amount...
Execute
CustomersCDS
FDConnection1
dsLocalQuery
FDLocalSQL1
LocalQuery
DelphicookbookConnection
SalesTable
FireDAC
Advantage Database Server
Sybase SQL Anywhere
IBM DB2 Server
DataSnap Server
Firebird
InterBase
DELPHICOOKBOOK
Tables
CUSTOMERS
SALES
Views
Procedures
Generators
EMPLOYEE
InterBase Lite
Informix
MongoDB
DataIntegrationWithFDLocalSQL.
Tool Palette
Search
Standard
Additional

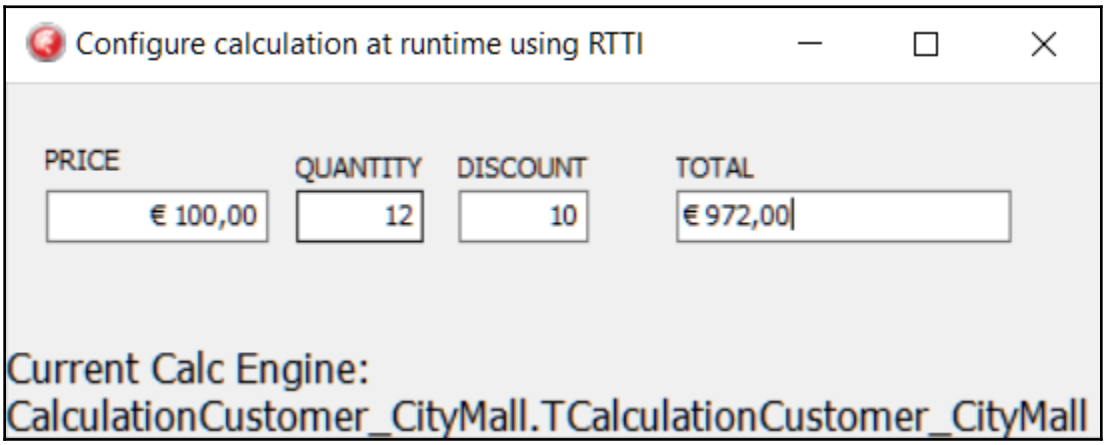

Object Inspector
FDLocalSQL1.DataSets[0] TFDLocalSQLDataSet
Search
Properties
Events
DataSet
SalesTable
Name
Sales
Owned
False
SchemaName
Temporary
False
Editing F...
0 - Sales
1 - Customers

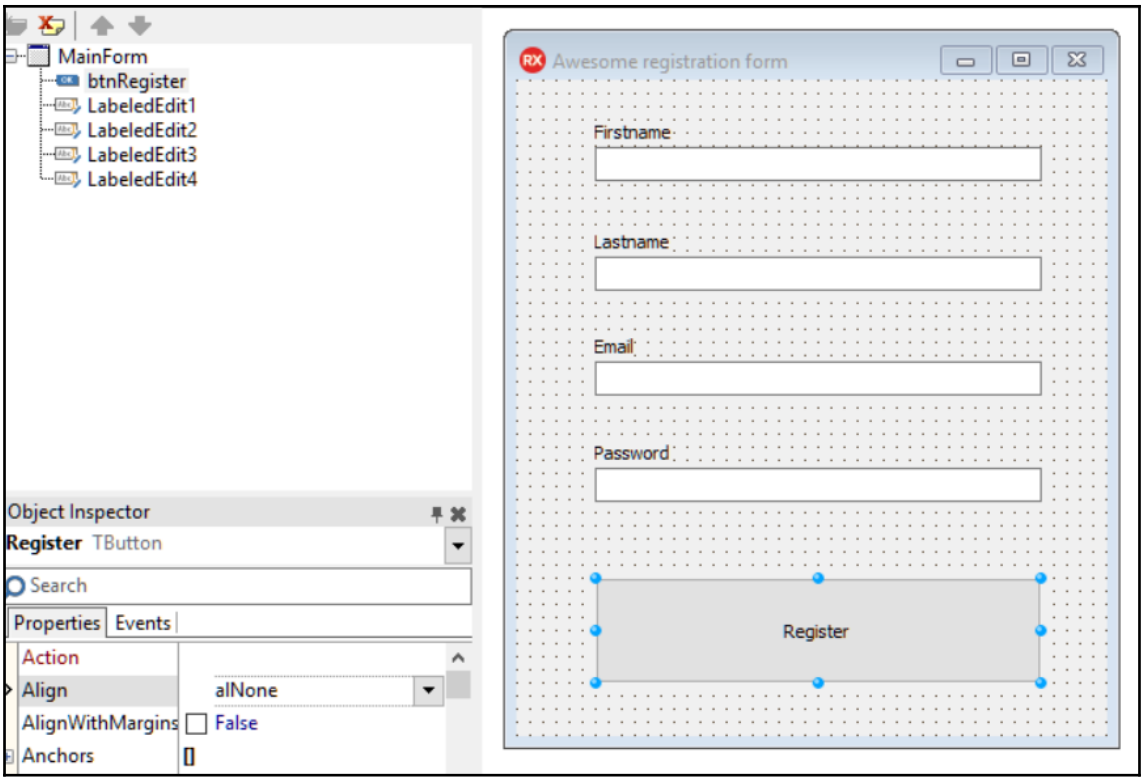

Data Integration made easy with TFDLocalSQL
1000
Execute
Cattura finestra
CustNo
Contact
Company
Addr1
1221
Erica Norman
Kauai Dive Shoppe
4-976 Sugarloaf Hwy
1231
George Weathers
Unisco
PO Box Z-547
1351
Phyllis Spooner
Sight Diver
1 Neptune Lane
1354
Joe Bailey
Cayman Divers World Unlimited
PO Box 541

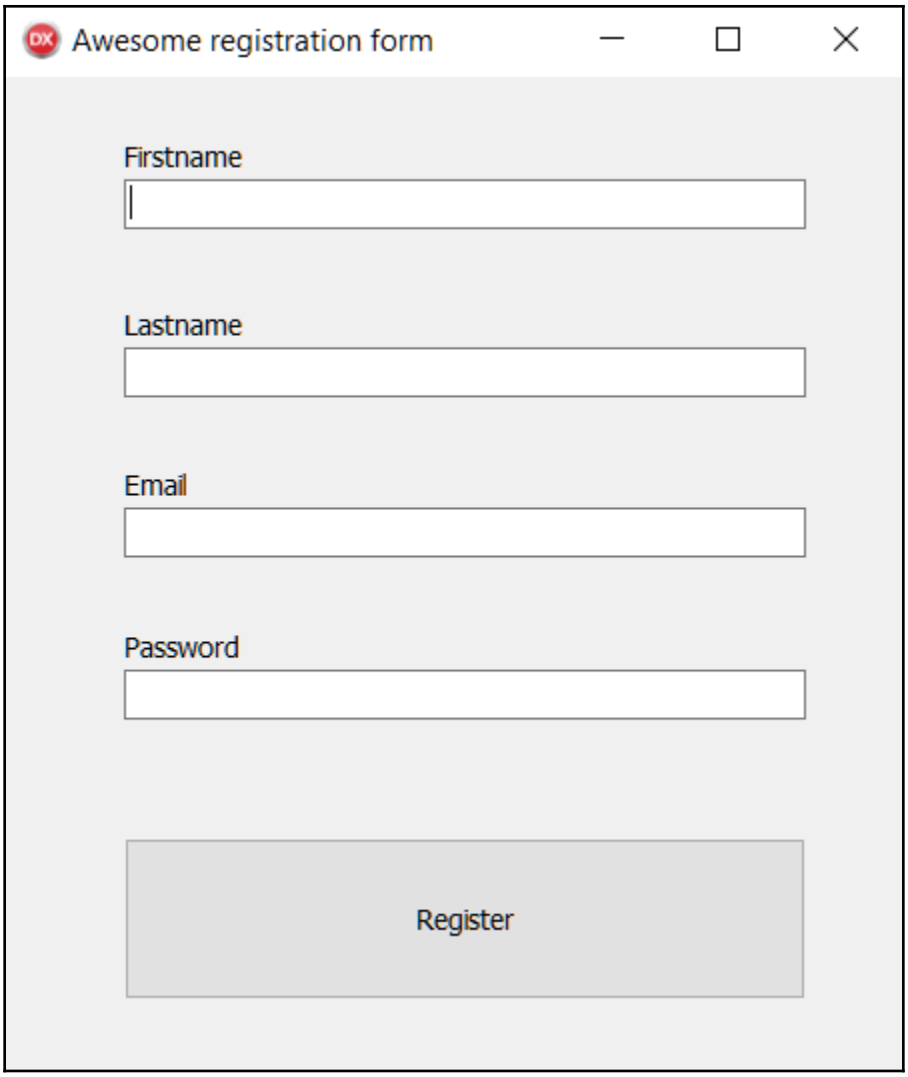

Data Integration made easy with TFDLocalSQL
100000
Execute
CustNo
Contact
Company
Addr1
1231
George Weathers
Unisco
PO Box Z-547

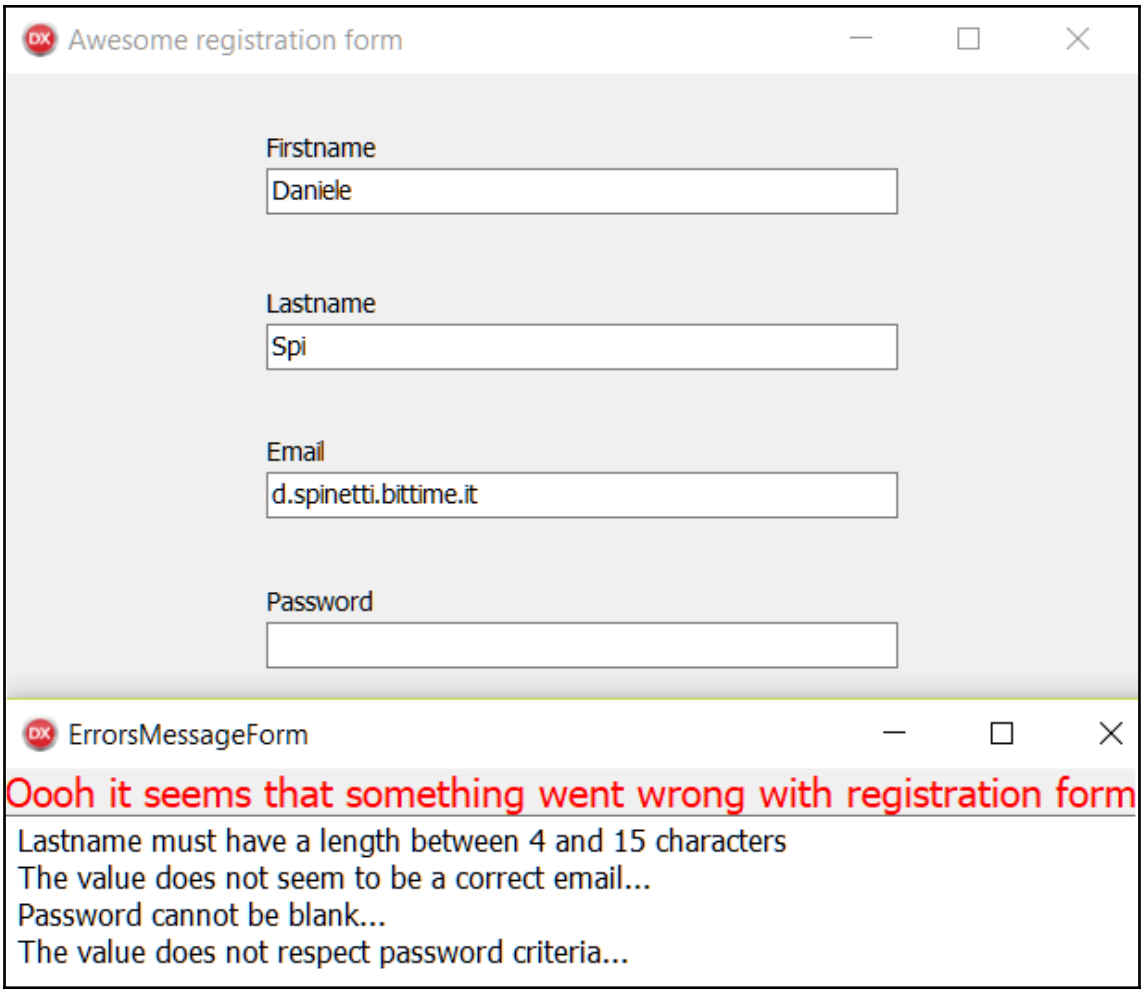
# Chapter 2: Becoming a Delphi Language Ninja

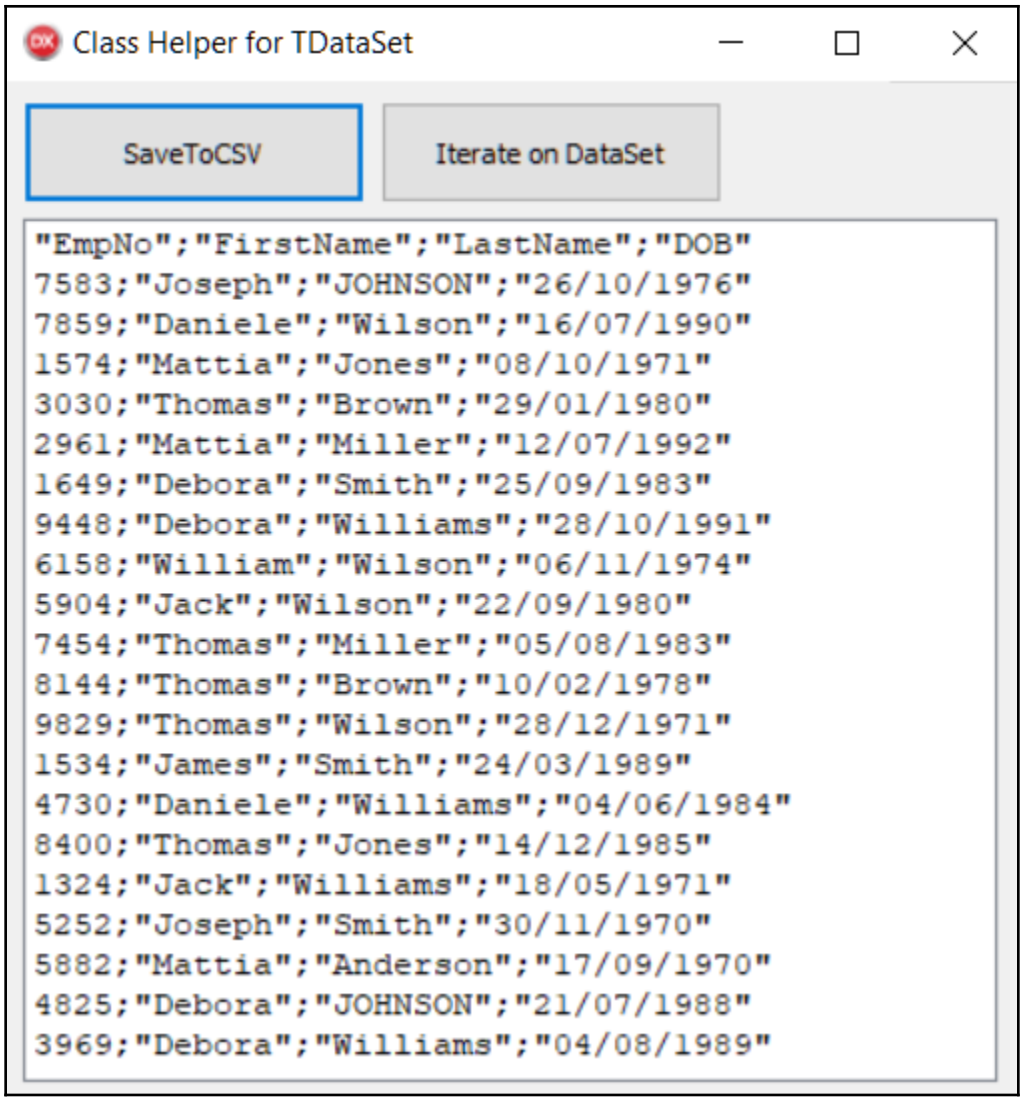


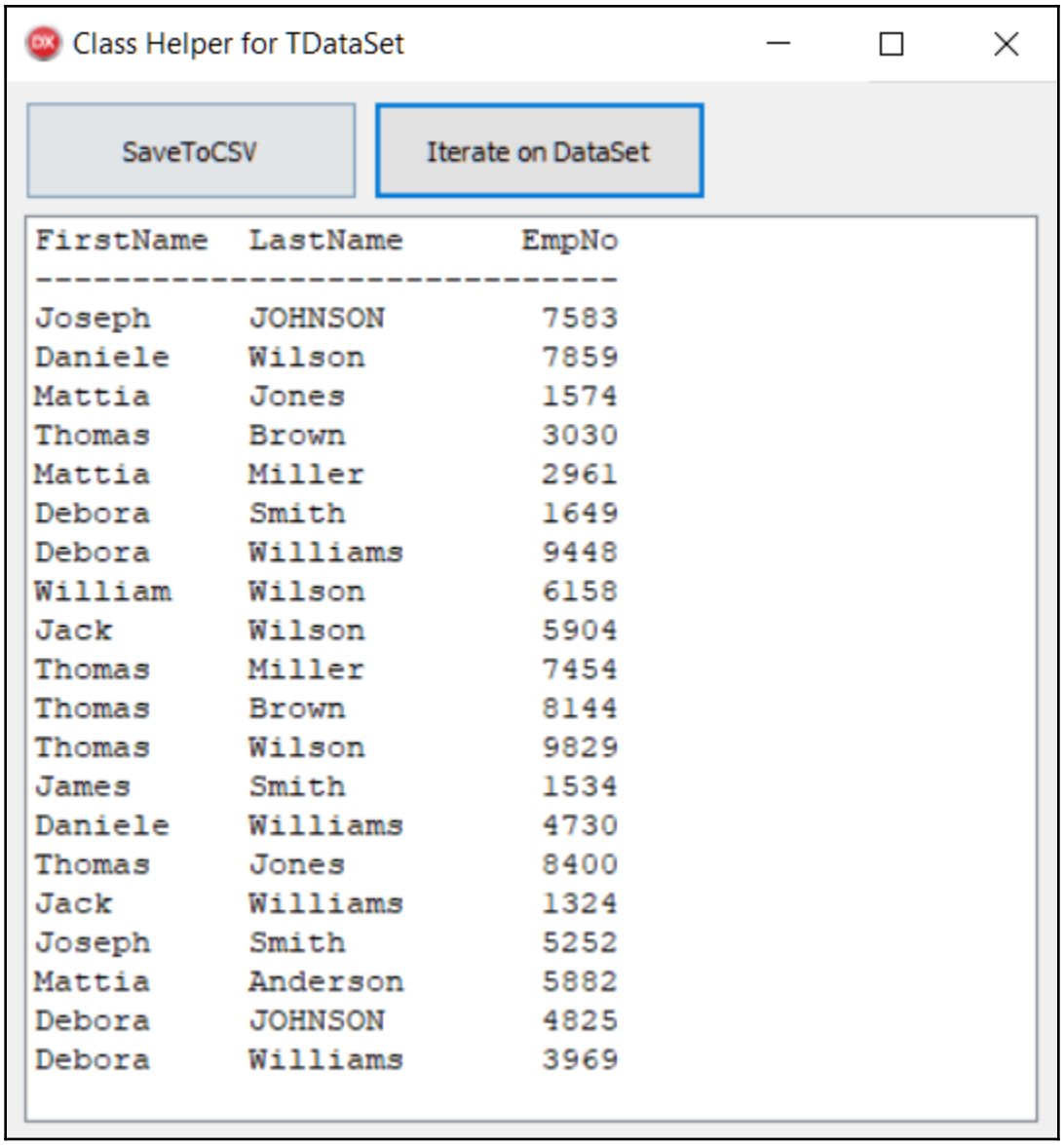




MainForm
btnRegister
LabeledEdit1
LabeledEdit2
LabeledEdit3
LabeledEdit4
Object Inspector
Register TButton
Search
Properties
Events
Action
Align
alNone
AlignWithMargins
False
Anchors
[]
Awesome registration form
Firstname
Lastname
Email
Password
Register

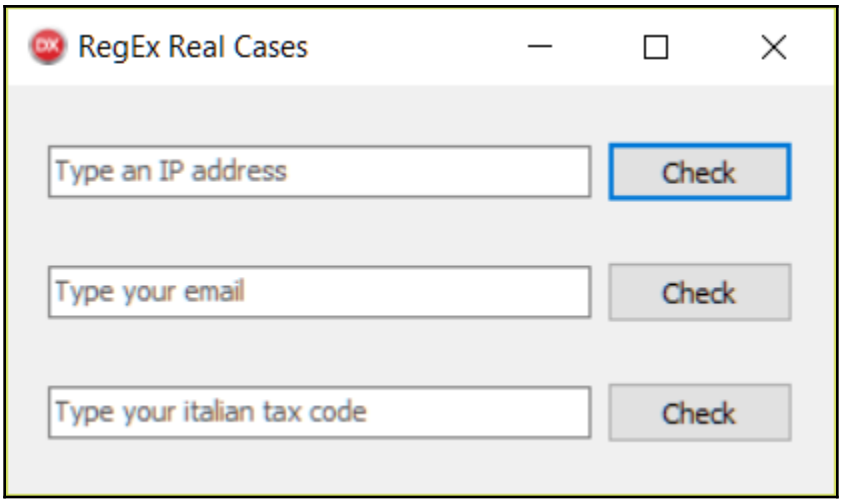

Awesome registration form
Firstname
Lastname
Email
Password
Register

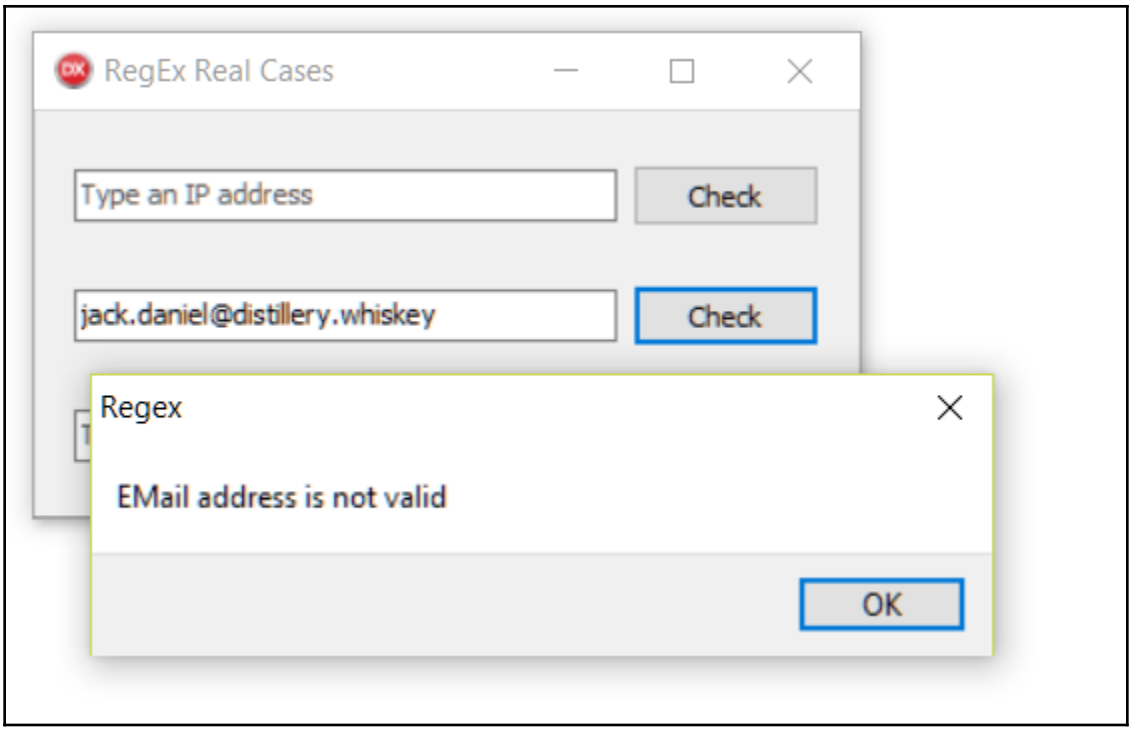

Awesome registration form
Firstname
Daniele
Lastname
Spi
Email
d.spinetti.bittime.it
Password
ErrorsMessageForm
Oooh it seems that something went wrong with registration form
Lastname must have a length between 4 and 15 characters
The value does not seem to be a correct email...
Password cannot be blank...
The value does not respect password criteria...

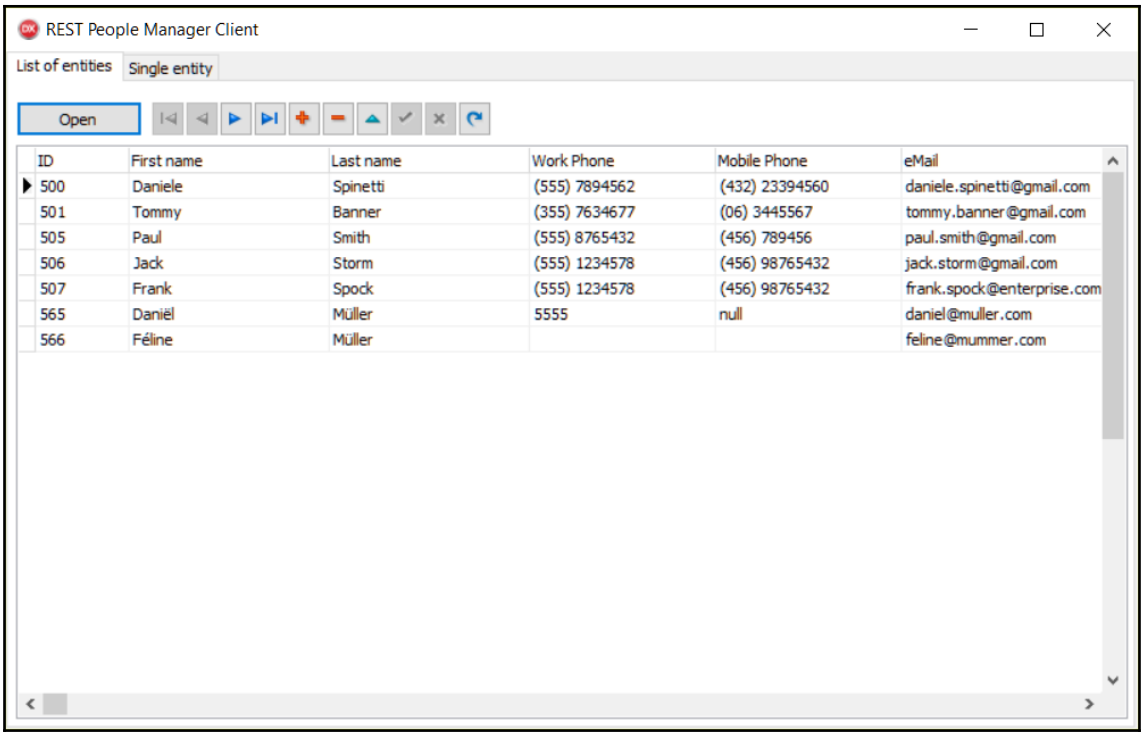

Class Helper for TDataSet
SaveToCSV
Iterate on DataSet
"EmpNo";"FirstName";"LastName";"DOB"
7583;"Joseph";"JOHNSON";"26/10/1976"
7859;"Daniele";"Wilson";"16/07/1990"
1574;"Mattia";"Jones";"08/10/1971"
3030;"Thomas";"Brown";"29/01/1980"
2961;"Mattia";"Miller";"12/07/1992"
1649;"Debora";"Smith";"25/09/1983"
9448;"Debora";"Williams";"28/10/1991"
6158;"William";"Wilson";"06/11/1974"
5904;"Jack";"Wilson";"22/09/1980"
7454;"Thomas";"Miller";"05/08/1983"
8144;"Thomas";"Brown";"10/02/1978"
9829;"Thomas";"Wilson";"28/12/1971"
1534;"James";"Smith";"24/03/1989"
4730;"Daniele";"Williams";"04/06/1984"
8400;"Thomas";"Jones";"14/12/1985"
1324;"Jack";"Williams";"18/05/1971"
5252;"Joseph";"Smith";"30/11/1970"
5882;"Mattia";"Anderson";"17/09/1970"
4825;"Debora";"JOHNSON";"21/07/1988"
3969;"Debora";"Williams";"04/08/1989"

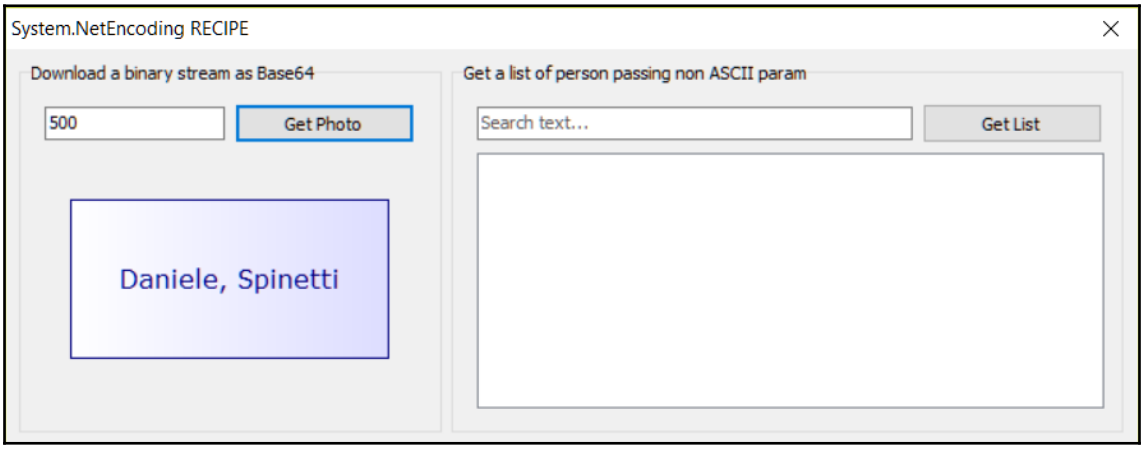

Class Helper for TDataSet
SaveToCSV
Iterate on DataSet
FirstName LastName EmpNo
Joseph JOHNSON 7583
Daniele Wilson 7859
Mattia Jones 1574
Thomas Brown 3030
Mattia Miller 2961
Debora Smith 1649
Debora Williams 9448
William Wilson 6158
Jack Wilson 5904
Thomas Miller 7454
Thomas Brown 8144
Thomas Wilson 9829
James Smith 1534
Daniele Williams 4730
Thomas Jones 8400
Jack Williams 1324
Joseph Smith 5252
Mattia Anderson 5882
Debora JOHNSON 4825
Debora Williams 3969

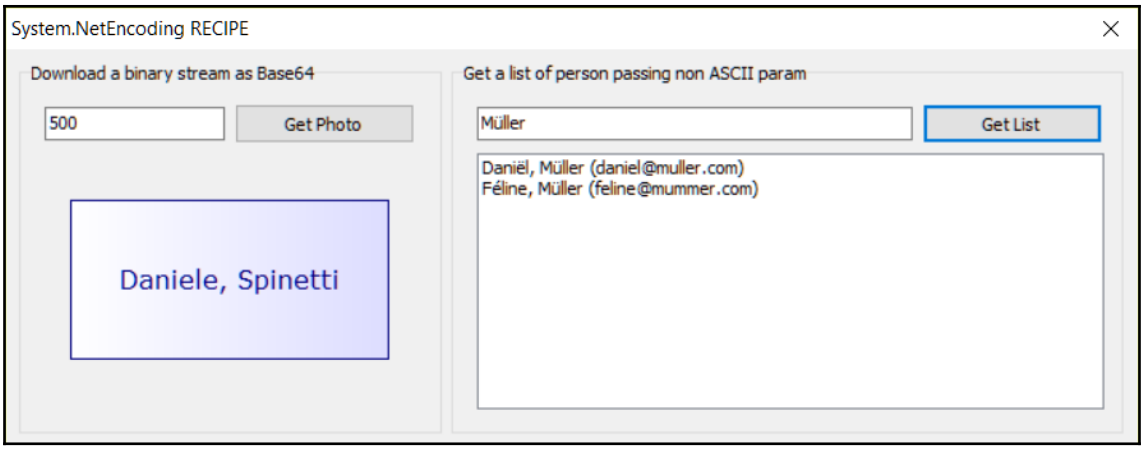
# Chapter 3: Knowing Your Friends – The Delphi RTL

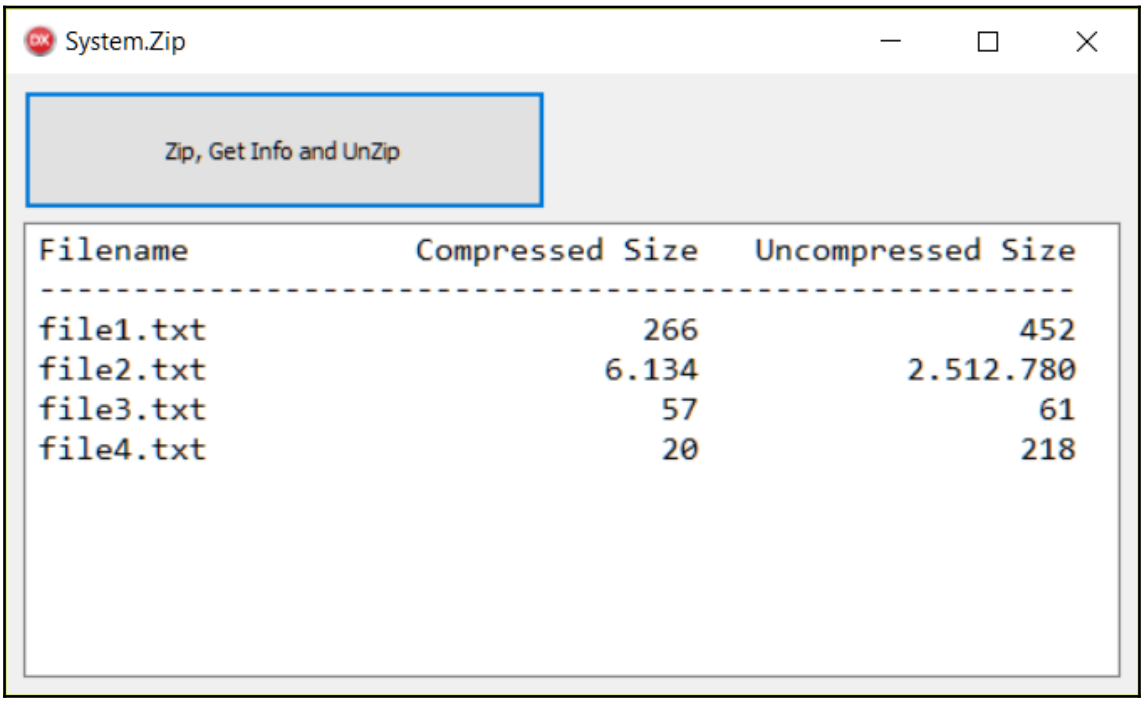


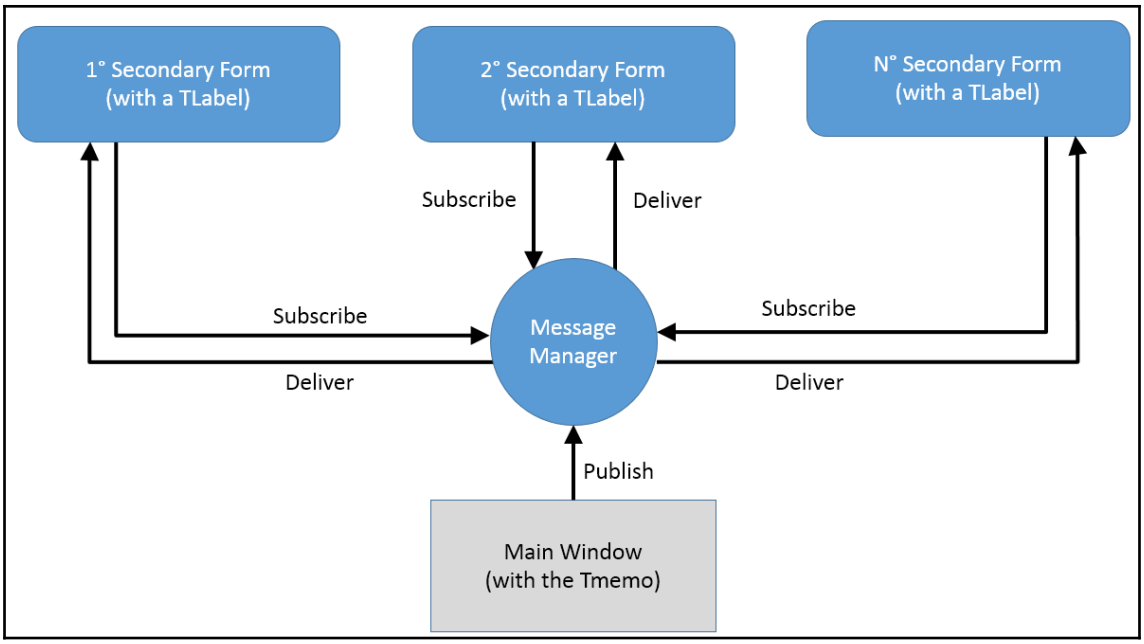

RegEx Real Cases
Type an IP address
Check
jack.daniel@distillery.whiskey
Check
Regex
EMail address is not valid
OK

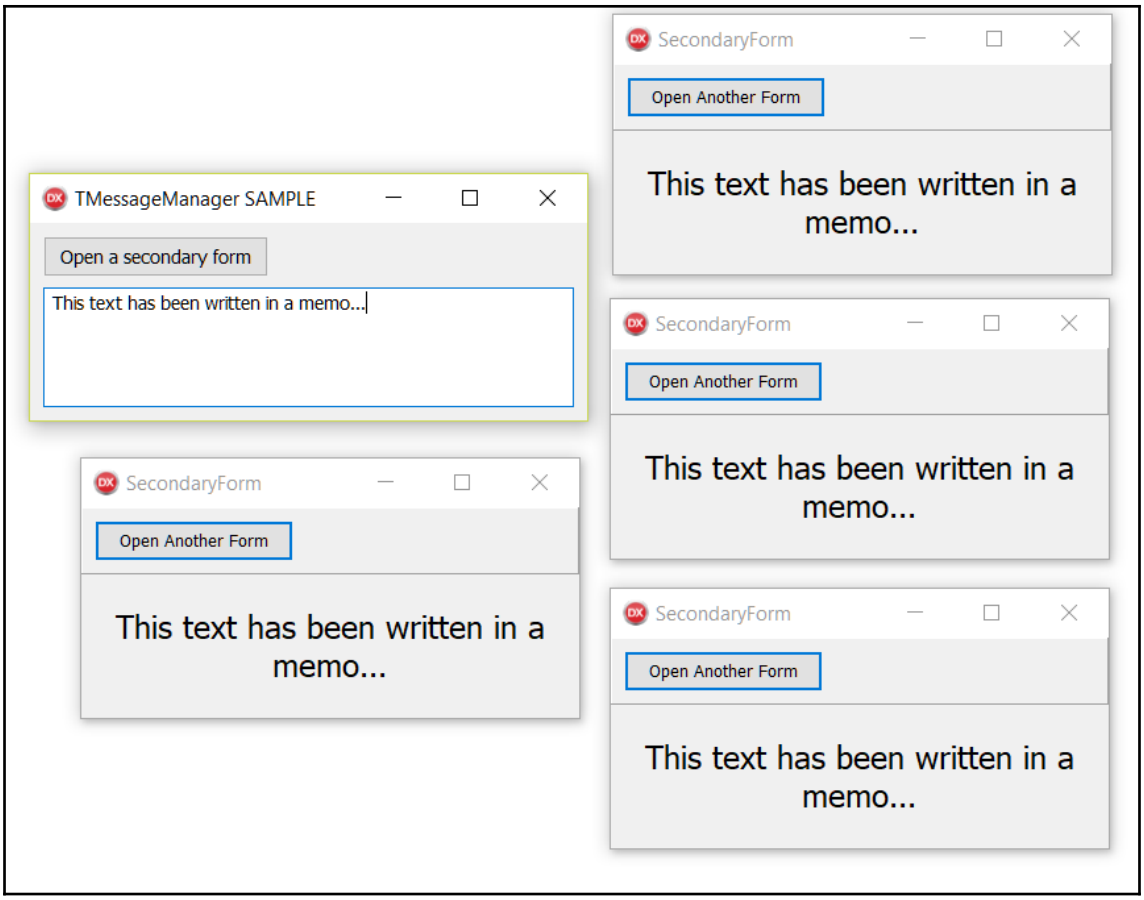

REST People Manager Client
List of entities
Single entity
Open
ID
First name
Last name
Work Phone
Mobile Phone
eMail
500 Daniele Spinetti (555) 7894562 (432) 23394560 daniele.spinetti@gmail.com
501 Tommy Banner (355) 7634677 (06) 3445567 tommy.banner@gmail.com
505 Paul Smith (555) 8765432 (456) 789456 paul.smith@gmail.com
506 Jack Storm (555) 1234578 (456) 98765432 jack.storm@gmail.com
507 Frank Spock (555) 1234578 (456) 98765432 frank.spock@enterprise.com
565 Daniël Müller 5555 null daniel@muller.com
566 Féline Müller feline@mummer.com


System.NetEncoding RECIPE
Download a binary stream as Base64
500
Get Photo
Daniele, Spinetti
Get a list of person passing non ASCII param
Search text...
Get List

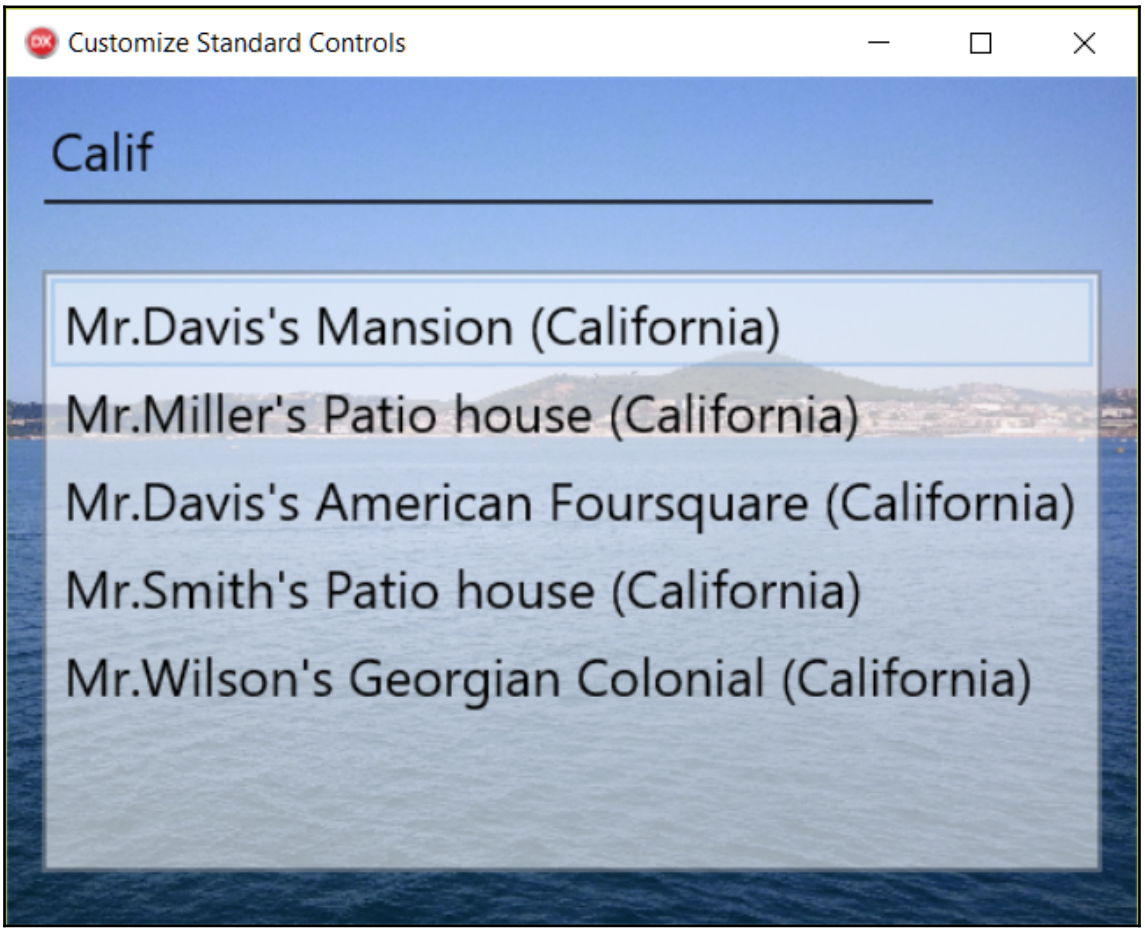

System.NetEncoding RECIPE
Download a binary stream as Base64
500
Get Photo
Daniele, Spinetti
Get a list of person passing non ASCII param
Müller
Get List
Daniël, Müller (daniel@muller.com)
Féline, Müller (feline@mummer.com)

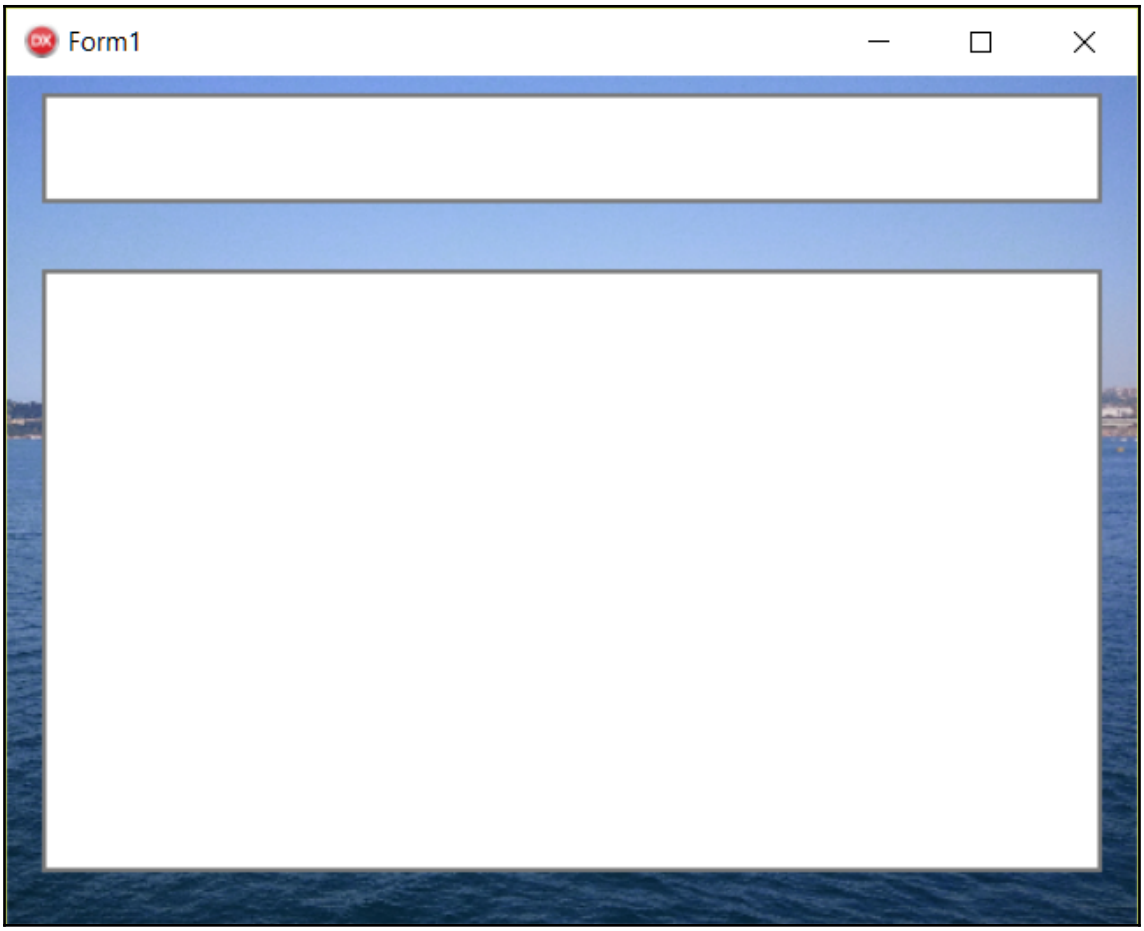

System.Zip
Zip, Get Info and UnZip
Filename Compressed Size Uncompressed Size
file1.txt 266 452
file2.txt 6.134 2.512.780
file3.txt 57 61
file4.txt 20 218

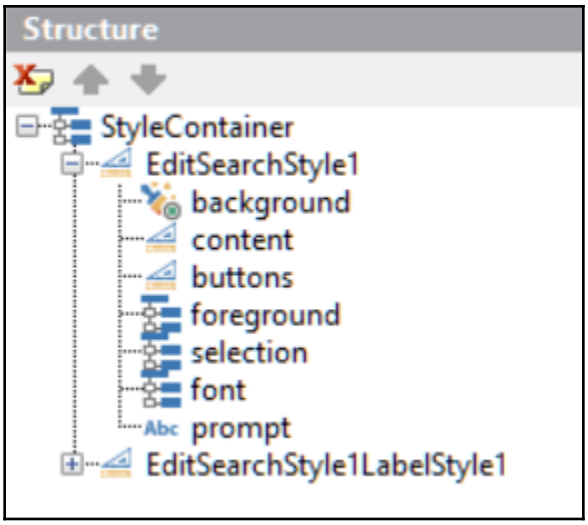

1° Secondary Form
(with a TLabel)
2° Secondary Form
(with a TLabel)
N° Secondary Form
(with a TLabel)
Subscribe
Deliver
Subscribe
Message
Manager
Subscribe
Deliver
Deliver
Publish
Main Window
(with the Tmemo)

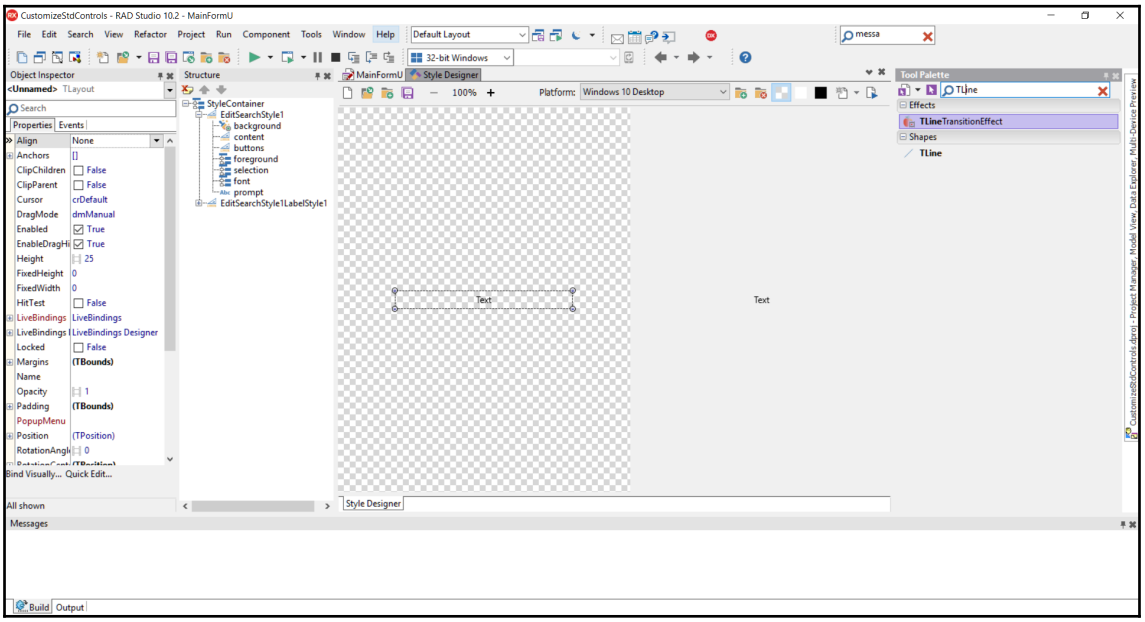

TMessageManager SAMPLE
Open a secondary form
This text has been written in a memo...
SecondaryForm
Open Another Form
This text has been written in a memo...
SecondaryForm
Open Another Form
This text has been written in a memo...
SecondaryForm
Open Another Form
This text has been written in a memo...
SecondaryForm
Open Another Form
This text has been written in a memo...

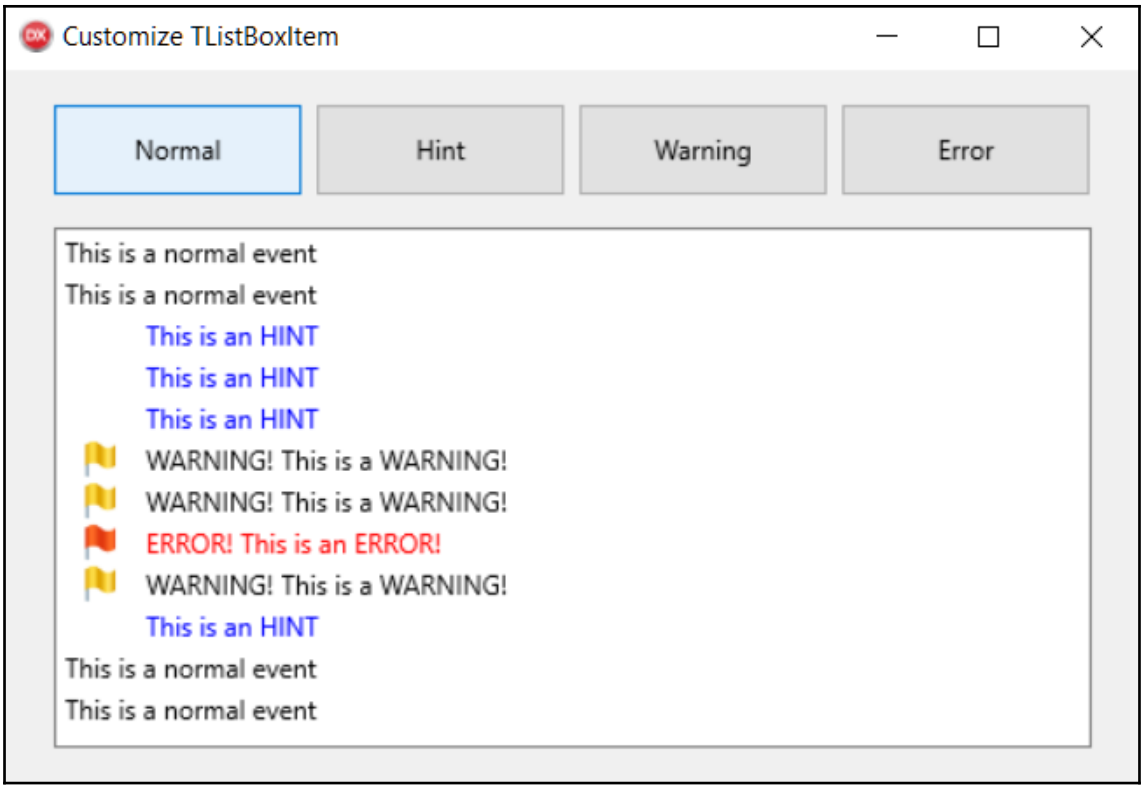
# Chapter 4: Going Cross-Platform with FireMonkey

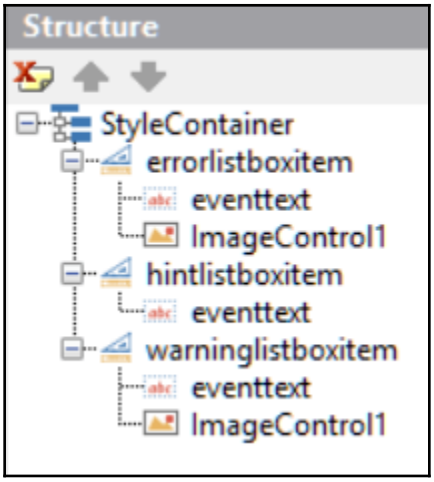


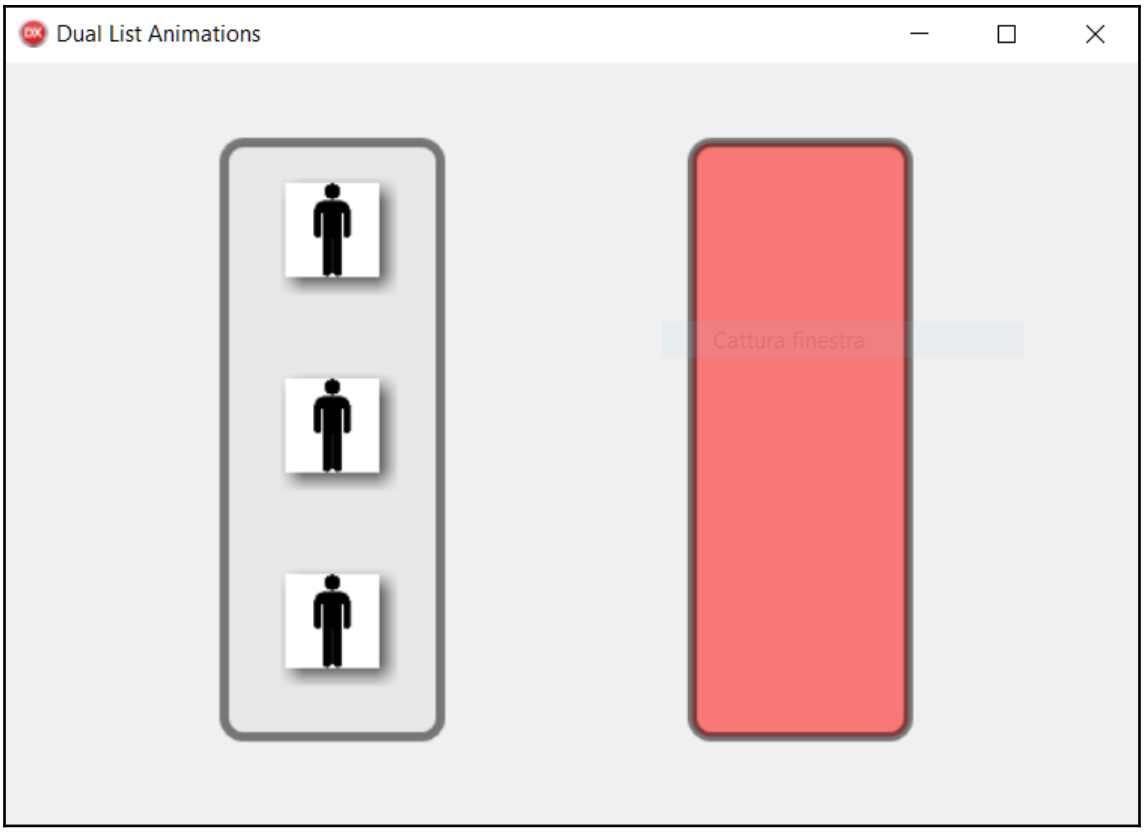

Form1

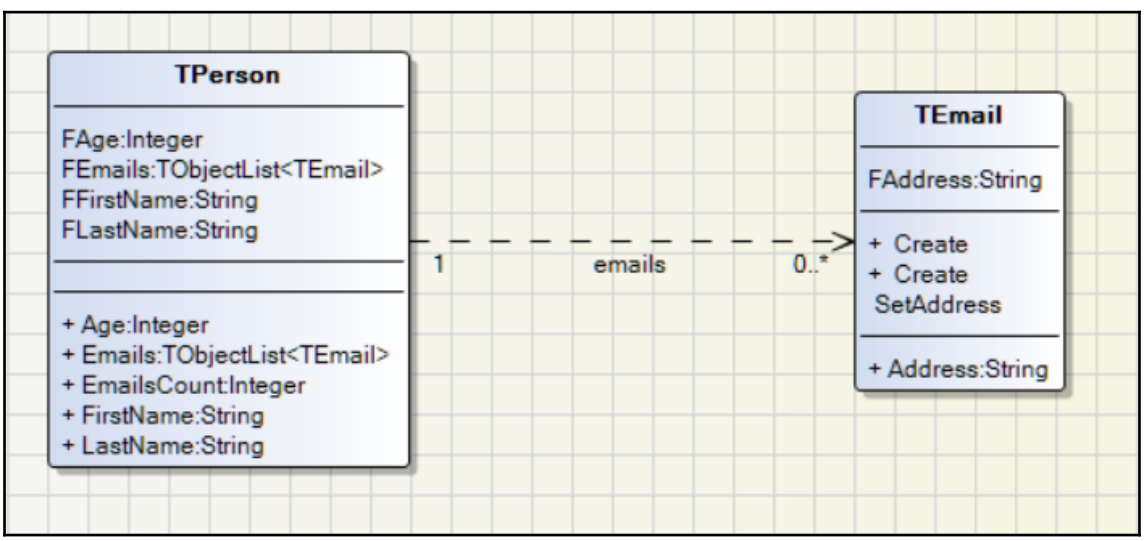

Structure
StyleContainer
EditSearchStyle1
background
content
buttons
foreground
selection
font
prompt
EditSearchStyle1LabelStyle1

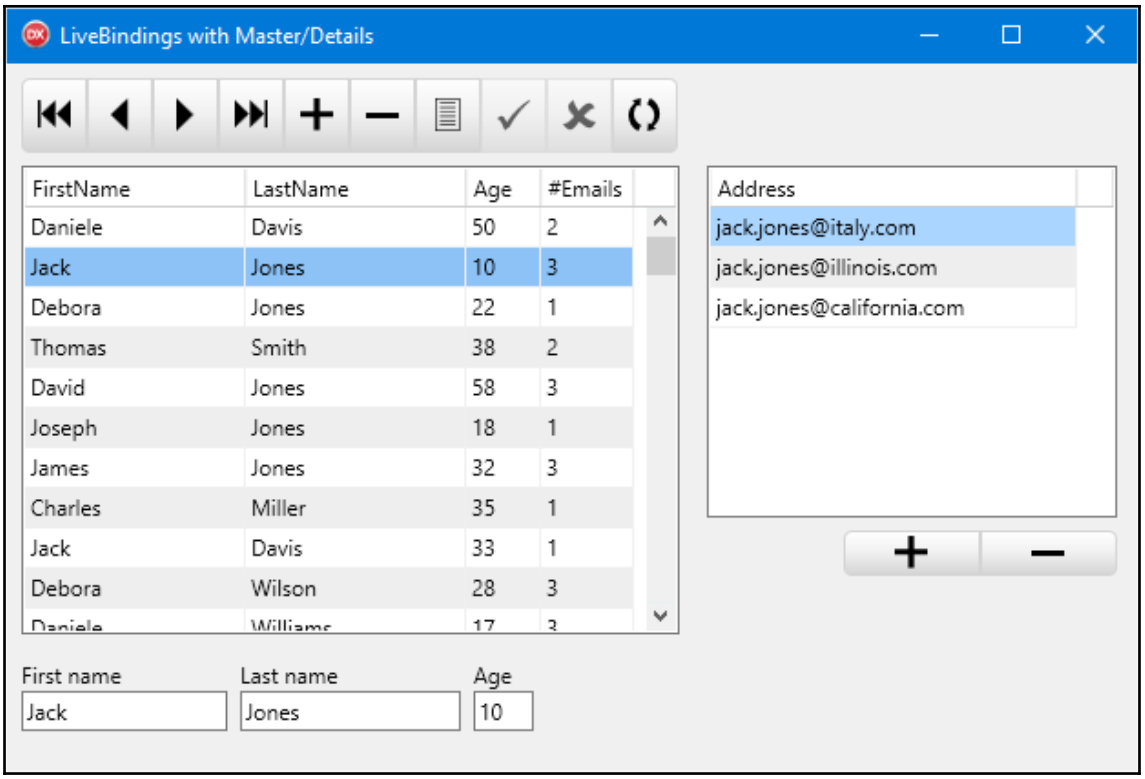

CustomizeStdControls - RAD Studio 10.2 - MainFormU
File Edit Search View Refactor Project Run Component Tools Window Help
Object Inspector
Structure
StyleContainer
EditSearchStyle1
background
content
buttons
foreground
selection
font
prompt
EditSearchStyle1LabelStyle1
MainFormU
Style Designer
Platform: Windows 10 Desktop
Tool Palette
Effects
TLineTransitionEffect
Shapes
TLine
Text
Text
Messages
Build
Output

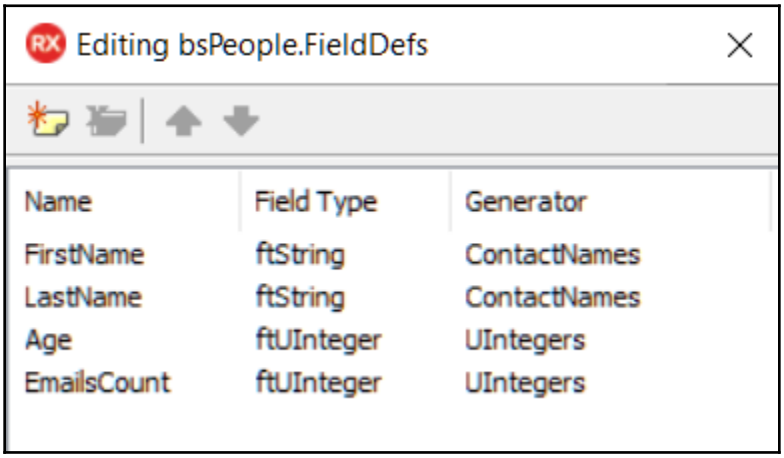

Customize TListBoxItem
Normal
Hint
Warning
Error
This is a normal event
This is a normal event
This is an HINT
This is an HINT
This is an HINT
WARNING! This is a WARNING!
WARNING! This is a WARNING!
ERROR! This is an ERROR!
WARNING! This is a WARNING!
This is an HINT
This is a normal event
This is a normal event

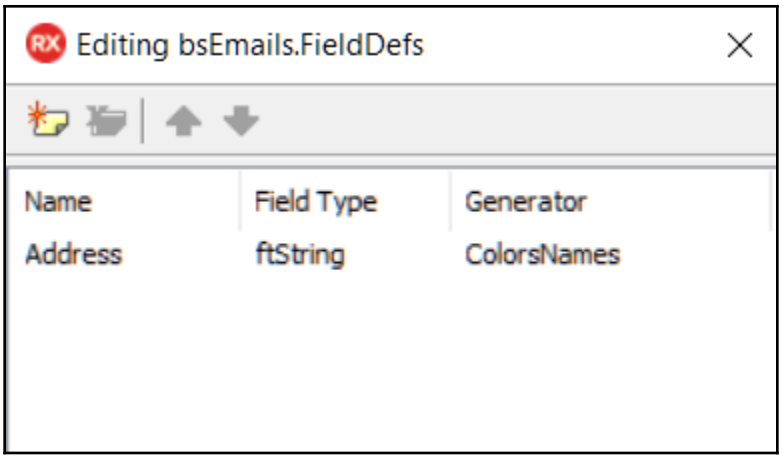

Structure
StyleContainer
errorlistboxitem
eventtext
ImageControl1
hintlistboxitem
eventtext
warninglistboxitem
eventtext
ImageControl1

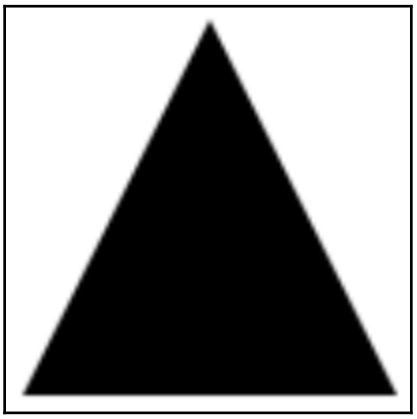

Dual List Animations

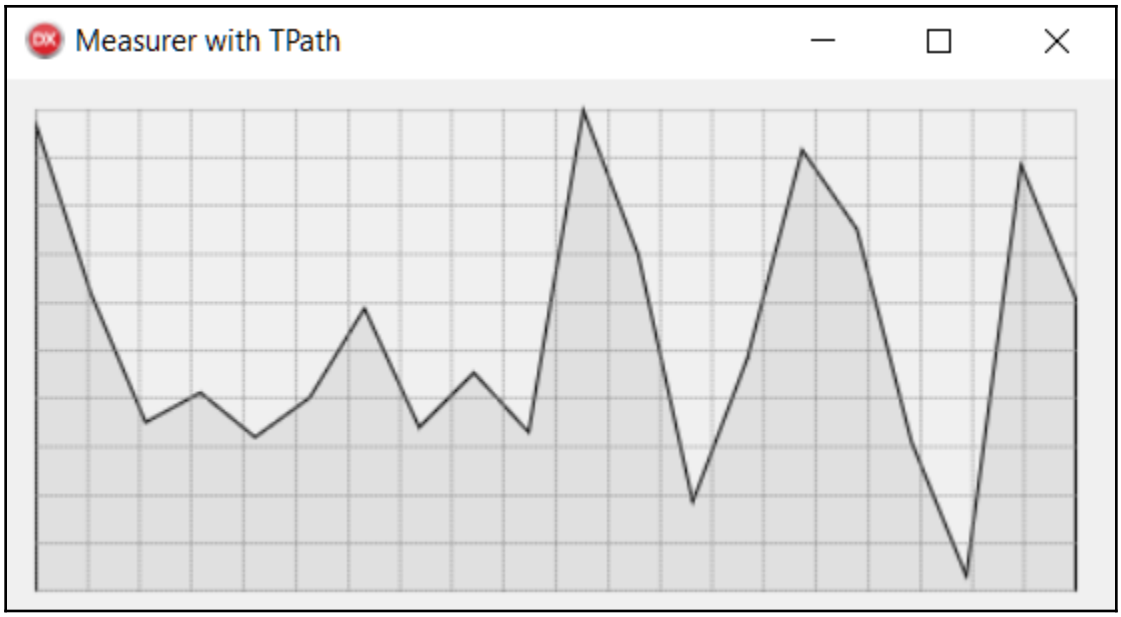

TPerson
FAge:Integer
FEmails:TObjectList<TEmail>
FFirstName:String
FLastName:String
+ Age:Integer
+ Emails:TObjectList<TEmail>
+ EmailsCount:Integer
+ FirstName:String
+ LastName:String
1
emails
0..*
TEmail
FAddress:String
+ Create
+ Create
SetAddress
+ Address:String

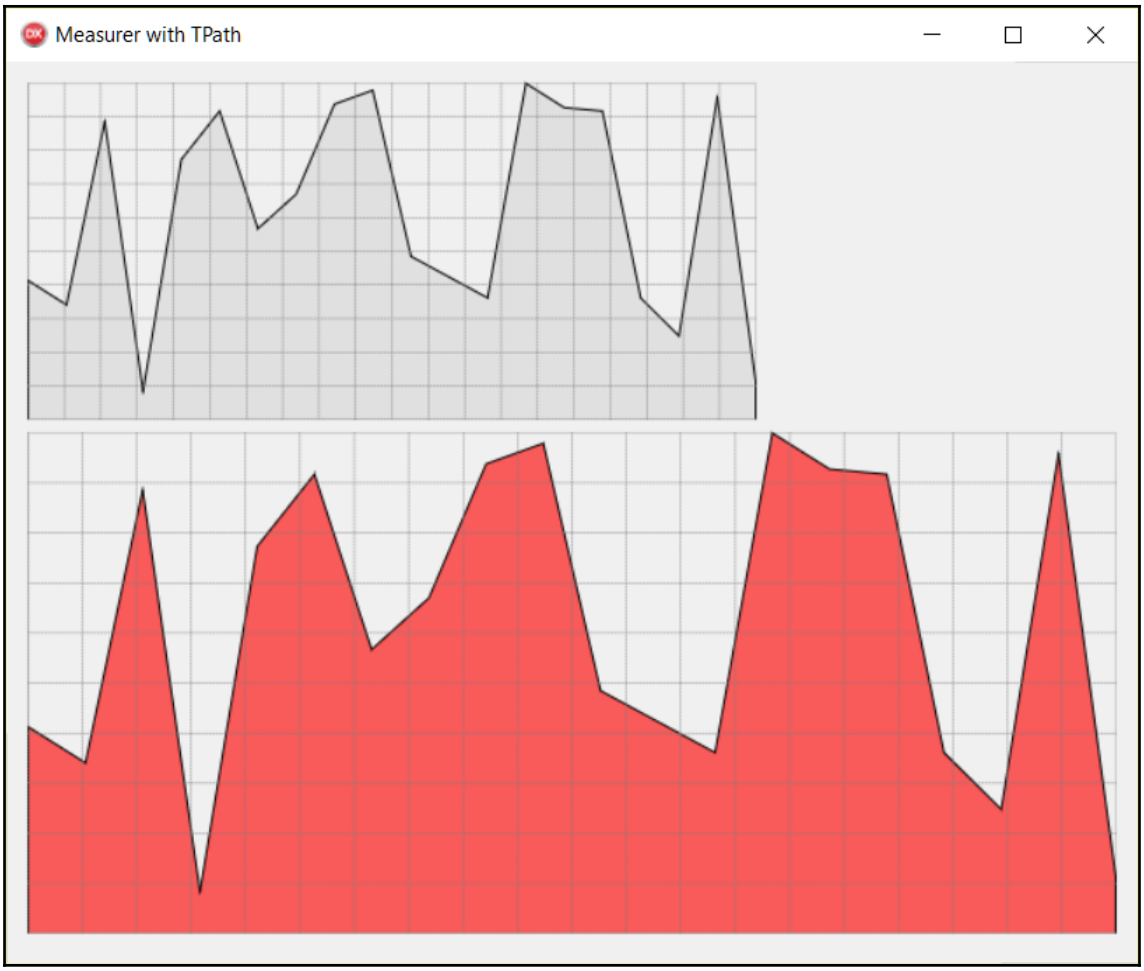

LiveBindings with Master/Details
FirstName
LastName
Age
#Emails
Daniele
Davis
50
2
Jack
Jones
10
3
Debora
Jones
22
1
Thomas
Smith
38
2
David
Jones
58
3
Joseph
Jones
18
1
James
Jones
32
3
Charles
Miller
35
1
Jack
Davis
33
1
Debora
Wilson
28
3
Address
jack.jones@italy.com
jack.jones@illinois.com
jack.jones@california.com
First name
Jack
Last name
Jones
Age
10

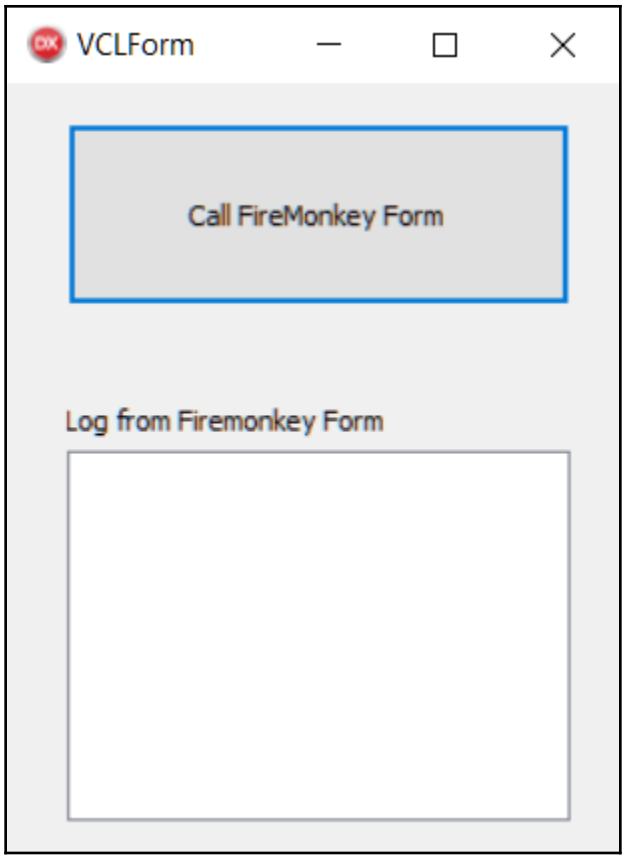

Editing bsPeople.FieldDefs
Name
Field Type
Generator
FirstName
ftString
ContactNames
LastName
ftString
ContactNames
Age
ftUInteger
UIntegers
EmailsCount
ftUInteger
UIntegers

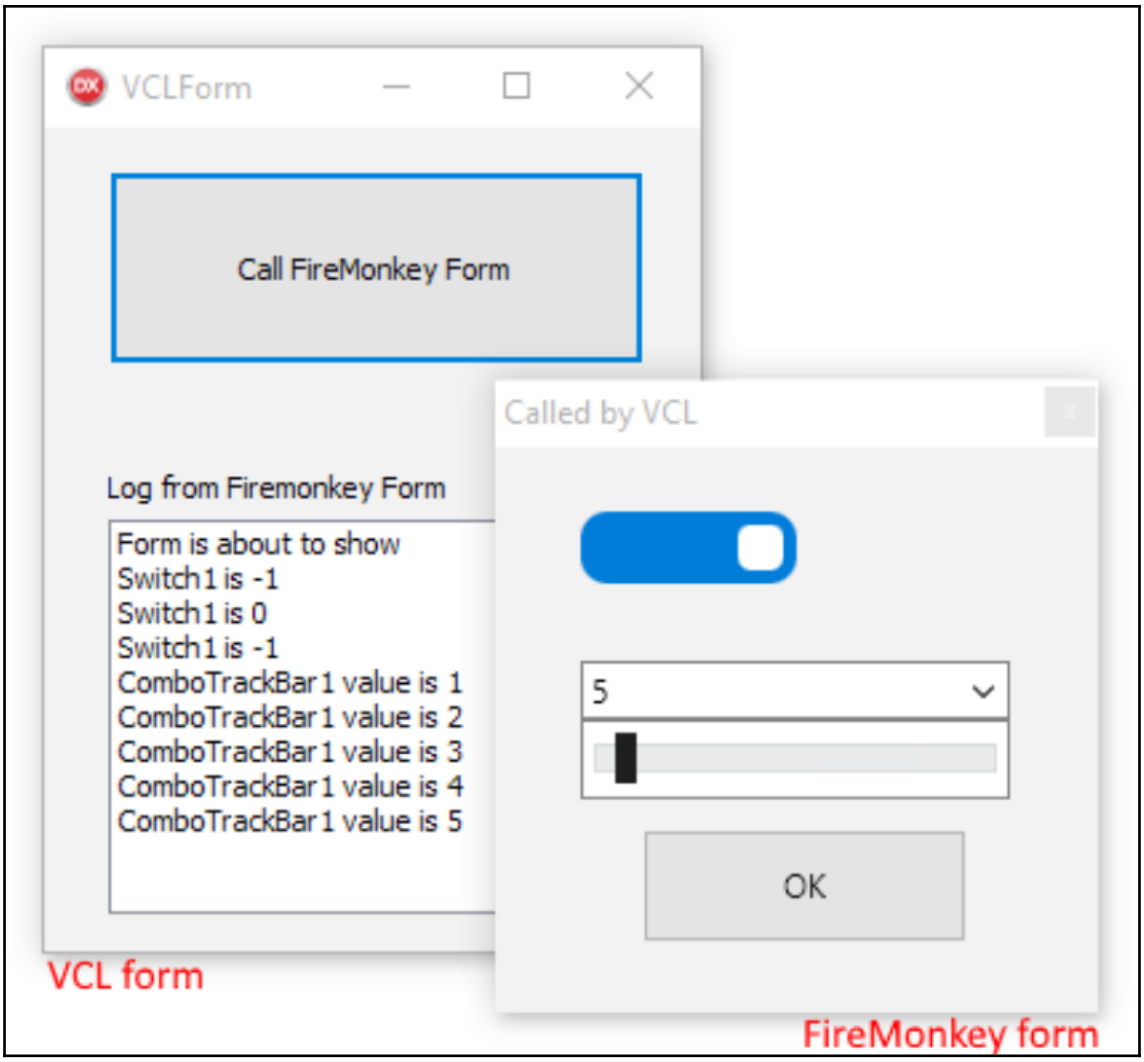

Editing bsEmails.FieldDefs
Name
Field Type
Generator
Address
ftString
ColorsNames

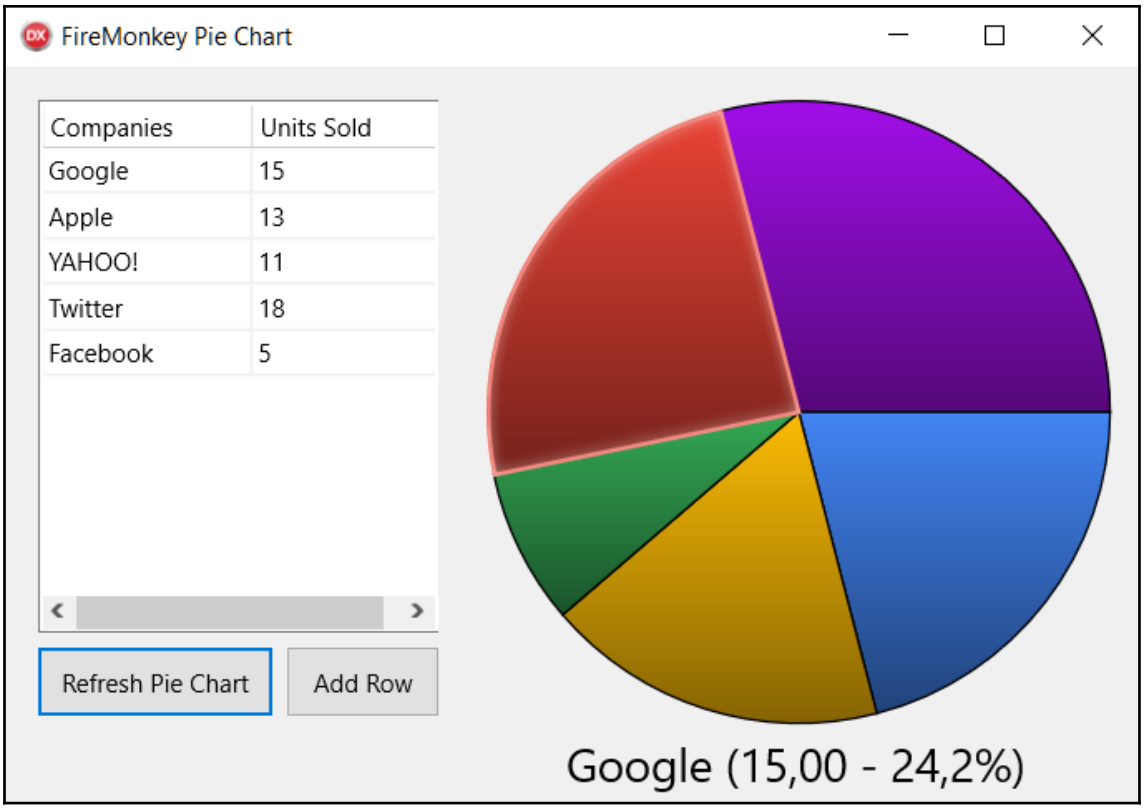


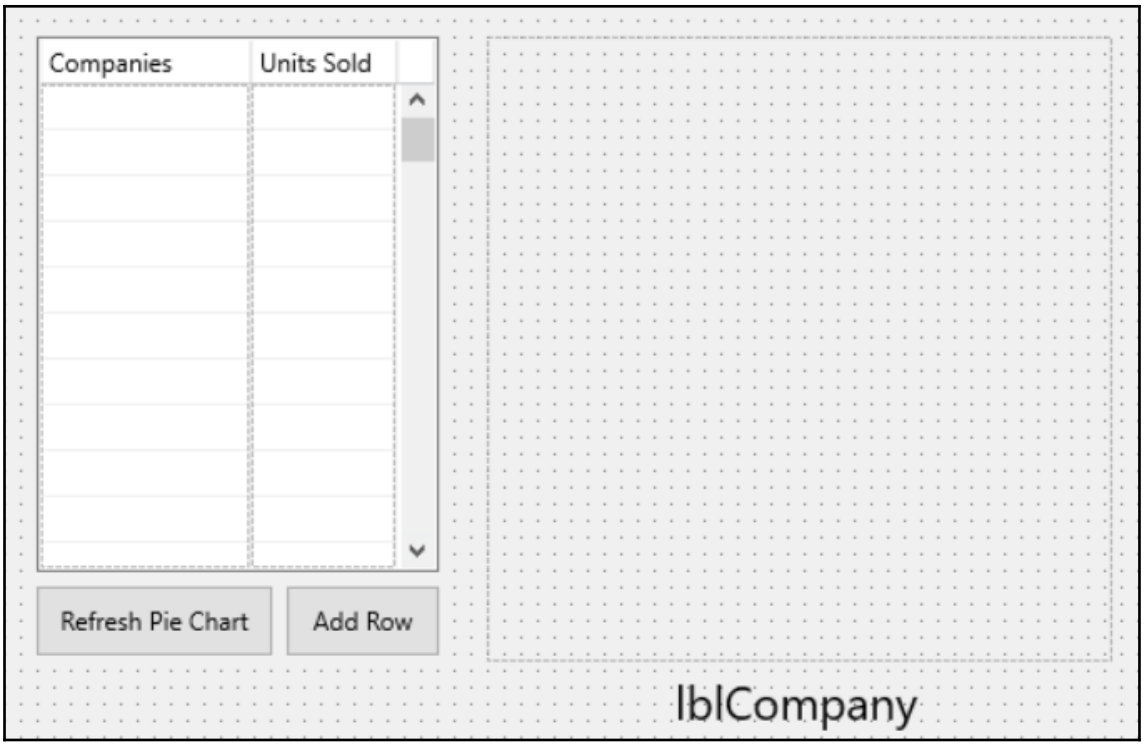

Measurer with TPath


Measurer with TPath

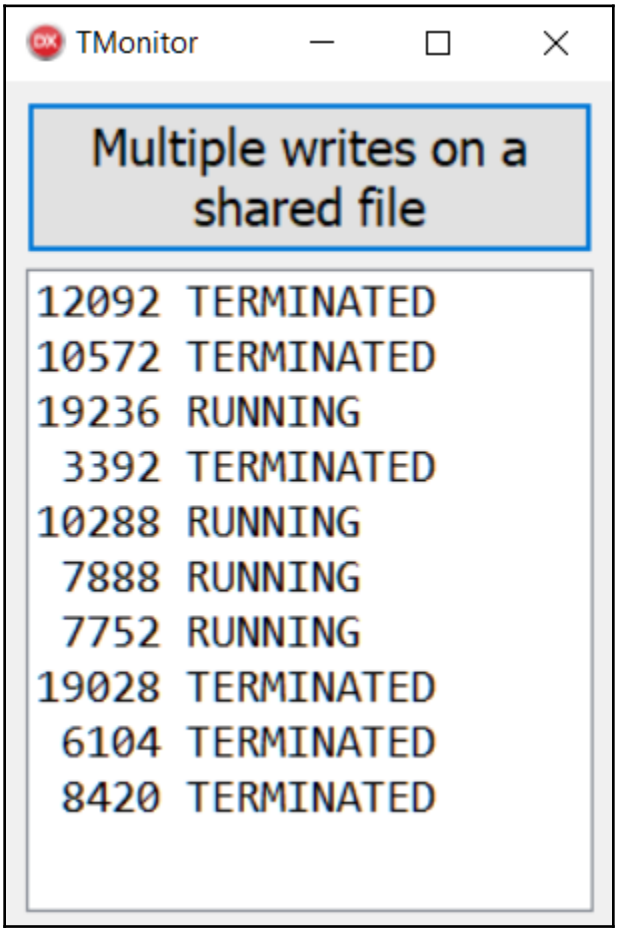

VCLForm
Call FireMonkey Form
Log from Firemonkey Form

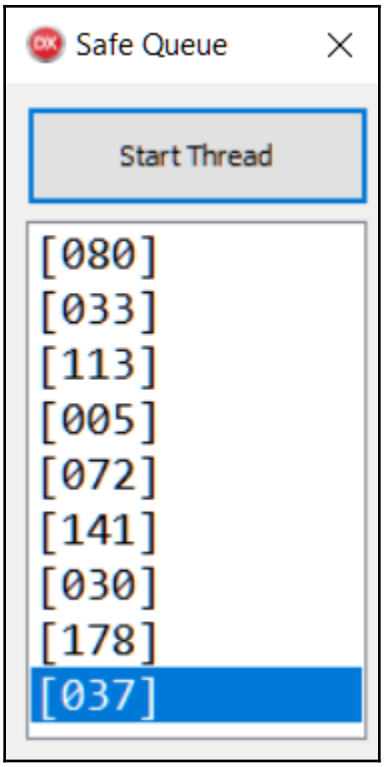

VCLForm
Call FireMonkey Form
Log from Firemonkey Form
Form is about to show
Switch1 is -1
Switch1 is 0
Switch1 is -1
ComboTrackBar1 value is 1
ComboTrackBar1 value is 2
ComboTrackBar1 value is 3
ComboTrackBar1 value is 4
ComboTrackBar1 value is 5
VCL form
Called by VCL
5
OK
FireMonkey form

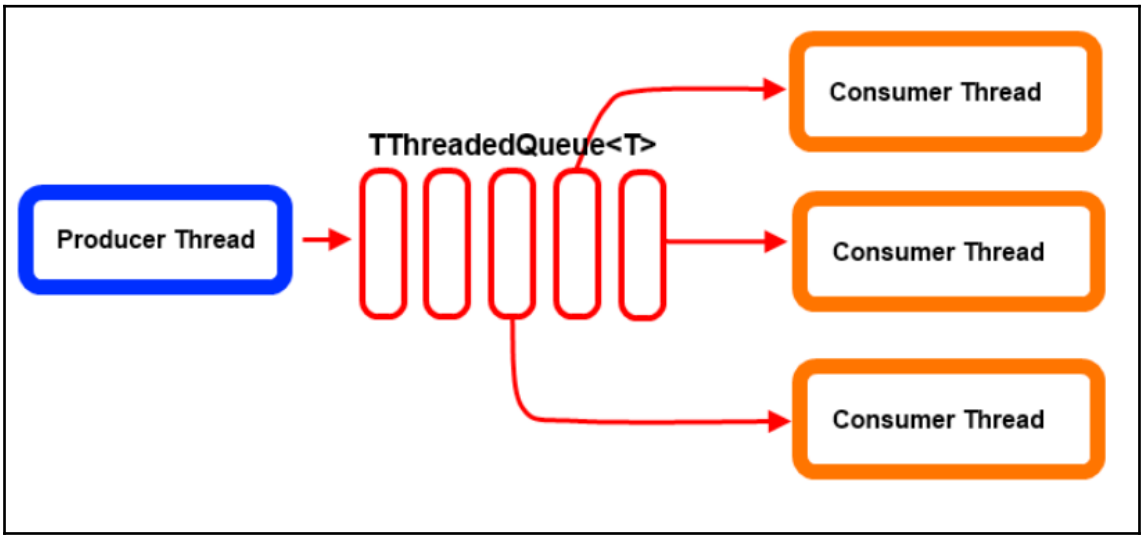

FireMonkey Pie Chart
Companies
Units Sold
Google
15
Apple
13
YAHOO!
11
Twitter
18
Facebook
5
Refresh Pie Chart
Add Row
Google (15,00 - 24,2%)

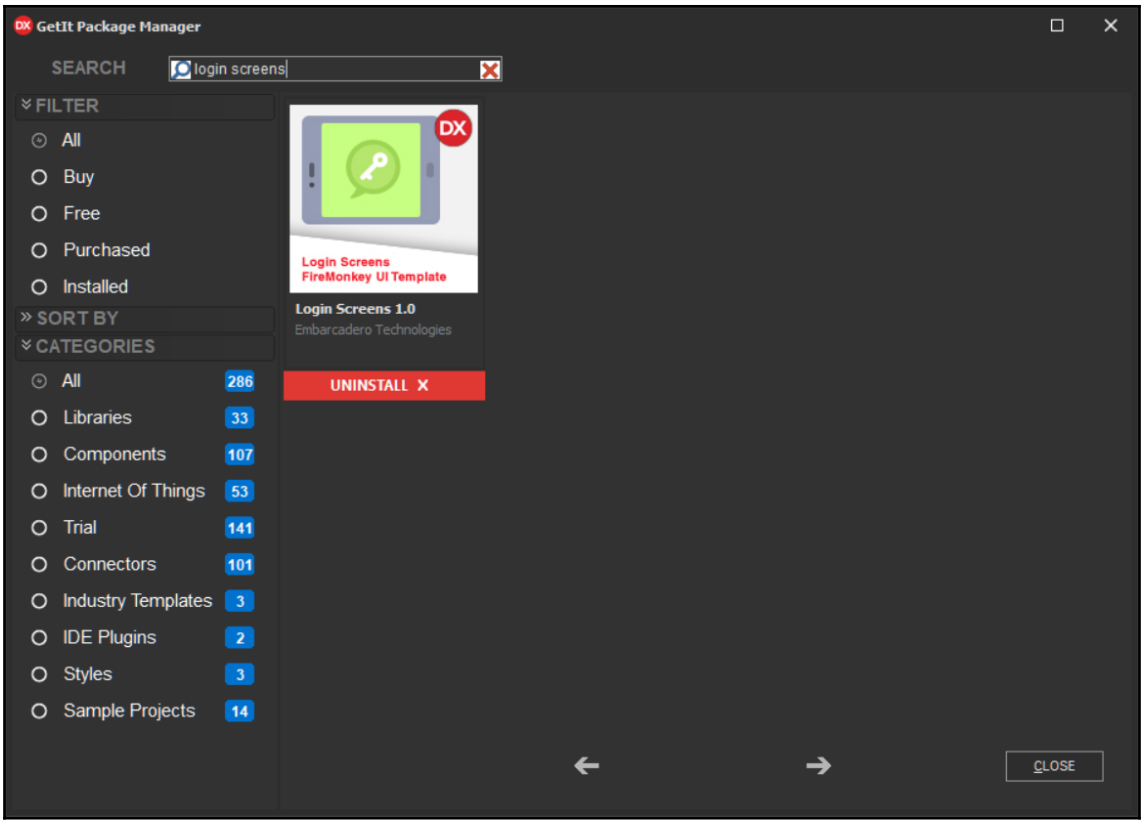

Companies
Units Sold
Refresh Pie Chart
Add Row
lblCompany

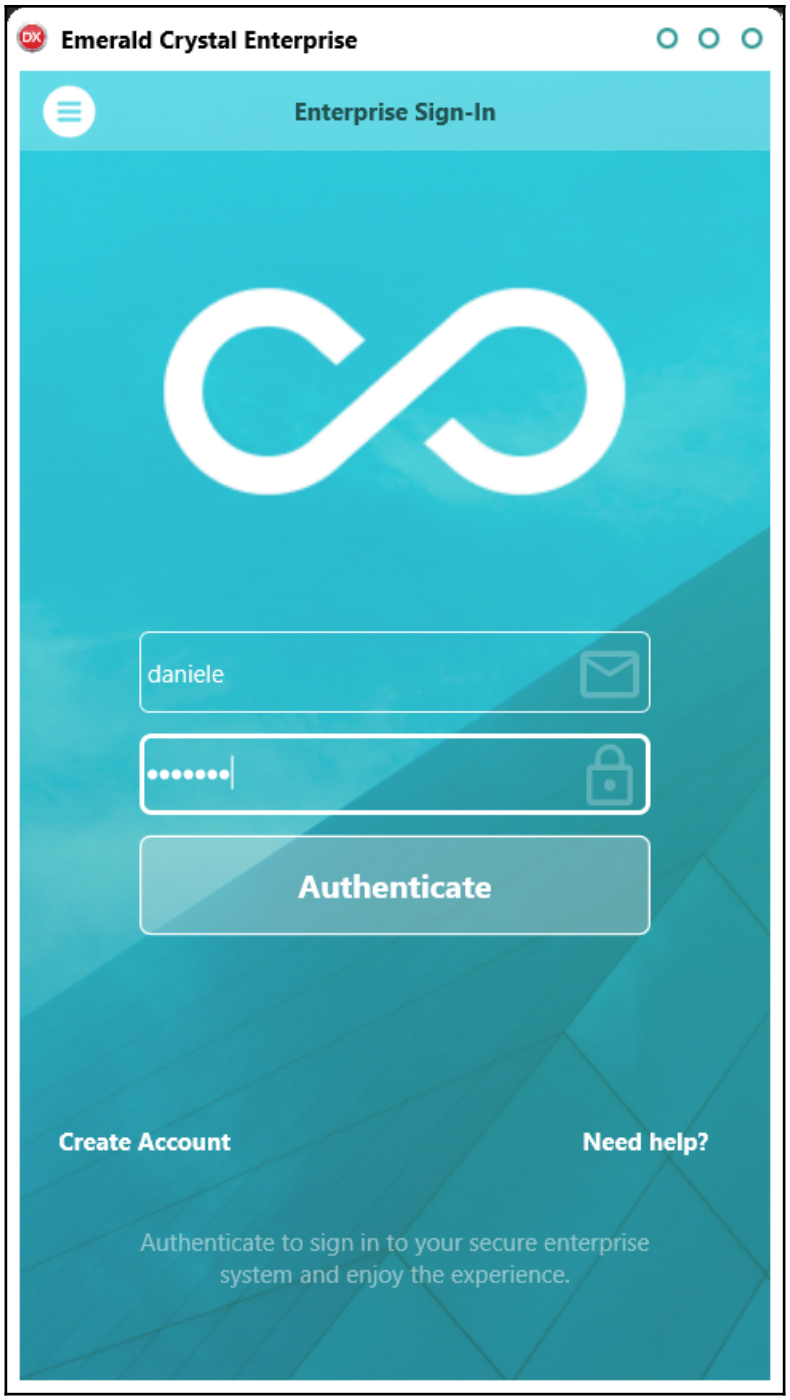
# Chapter 5: The Thousand Faces of Multithreading



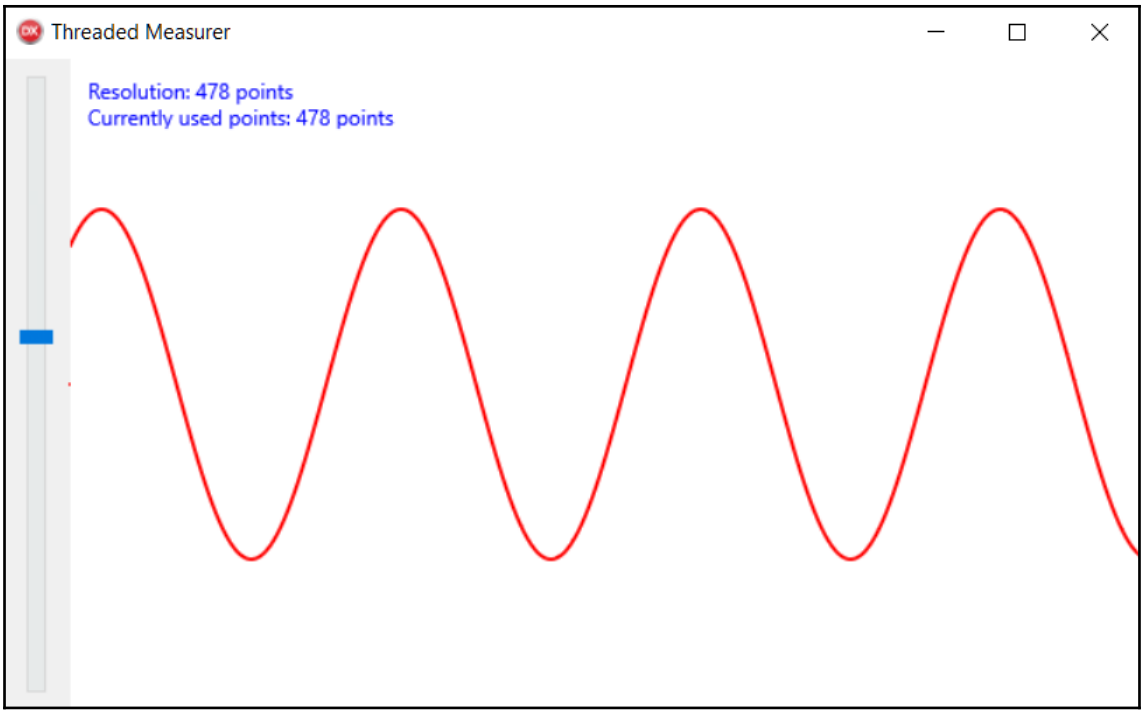

Safe Queue
Start Thread
[080]
[033]
[113]
[005]
[072]
[141]
[030]
[178]
[037]

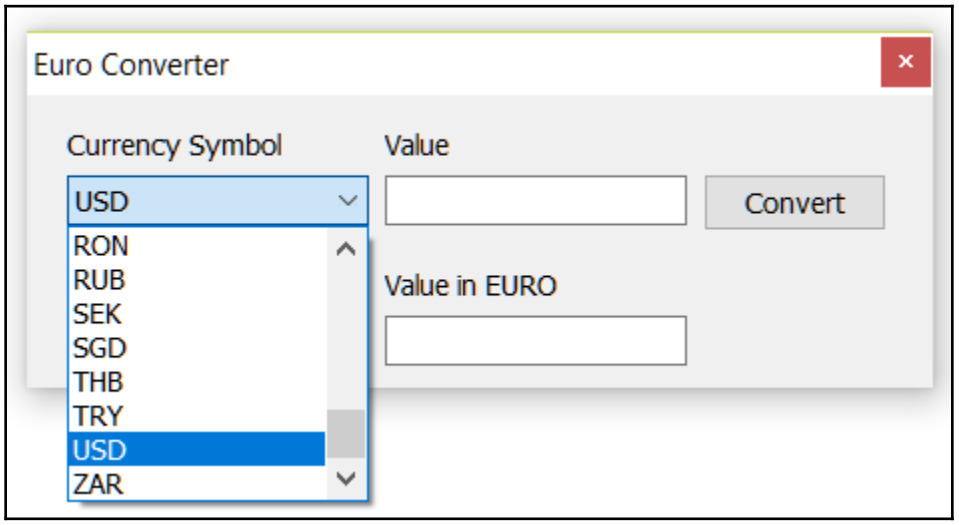

Producer Thread
TThreadedQueue<T>
Consumer Thread
Consumer Thread
Consumer Thread

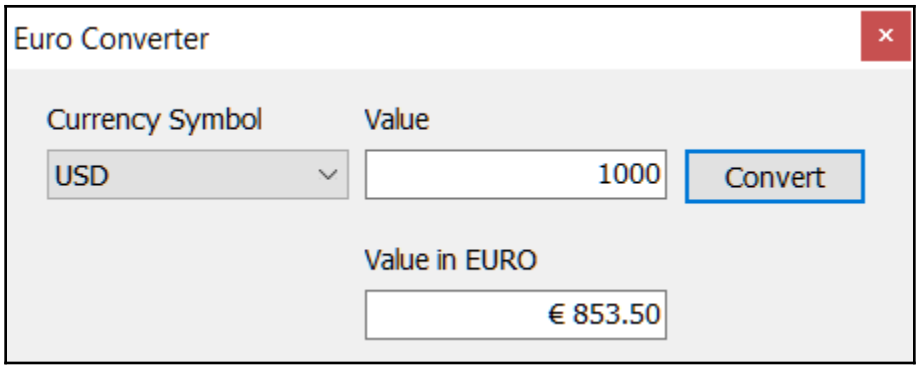

GetIt Package Manager
SEARCH
login screens
FILTER
All
Buy
Free
Purchased
Installed
SORT BY
CATEGORIES
All 286
Libraries 33
Components 107
Internet Of Things 53
Trial 141
Connectors 101
Industry Templates 3
IDE Plugins 2
Styles 3
Sample Projects 14
Login Screens
FireMonkey UI Template
Login Screens 1.0
Embarcadero Technologies
UNINSTALL X
CLOSE


Emerald Crystal Enterprise
Enterprise Sign-In
daniele
Authenticate
Create Account
Need help?
Authenticate to sign in to your secure enterprise system and enjoy the experience.

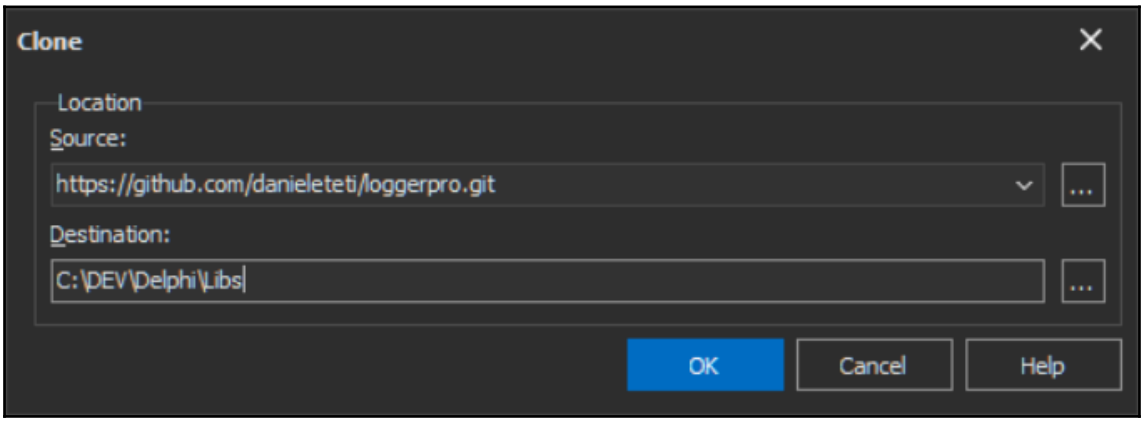
Emerald Crystal Enterprise
Enterprise Sign-In
daniele
Authenticate
Create Account
Need help?
Authenticate to sign in to your secure enterprise system and enjoy the experience.

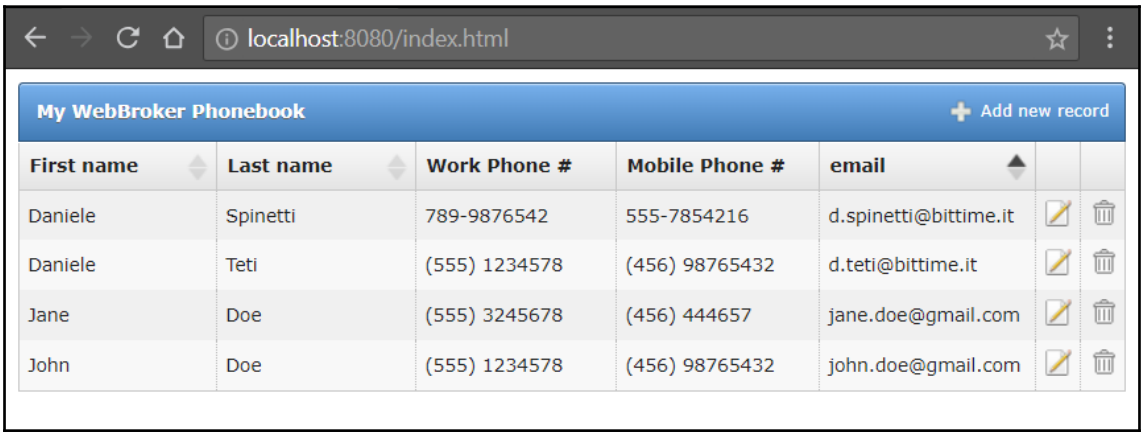

Threaded Measurer
Resolution: 478 points
Currently used points: 478 points

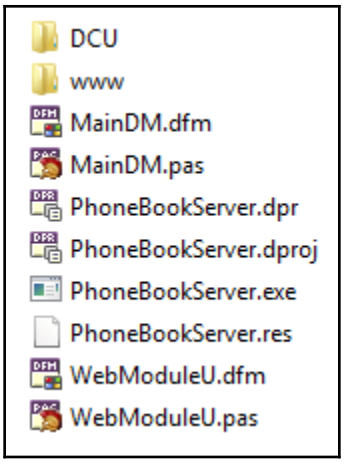

Euro Converter
Currency Symbol
Value
USD
Convert
RON
RUB
SEK
SGD
THB
TRY
USD
ZAR
Value in EURO

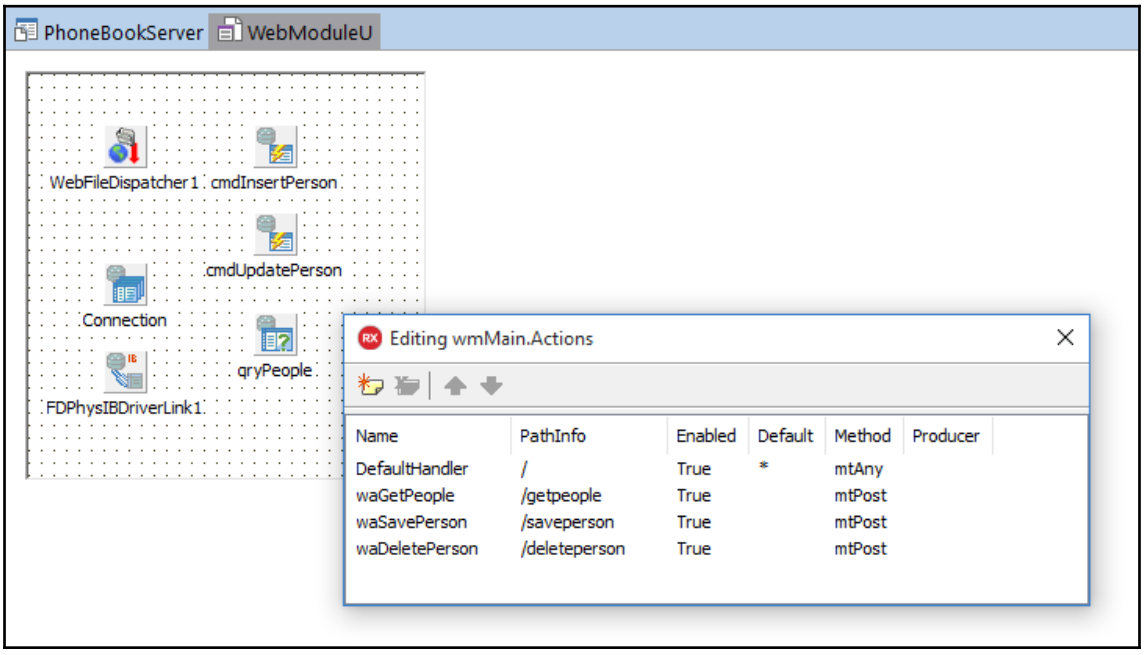

Euro Converter
Currency Symbol
Value
USD
1000
Convert
Value in EURO
€ 853.50

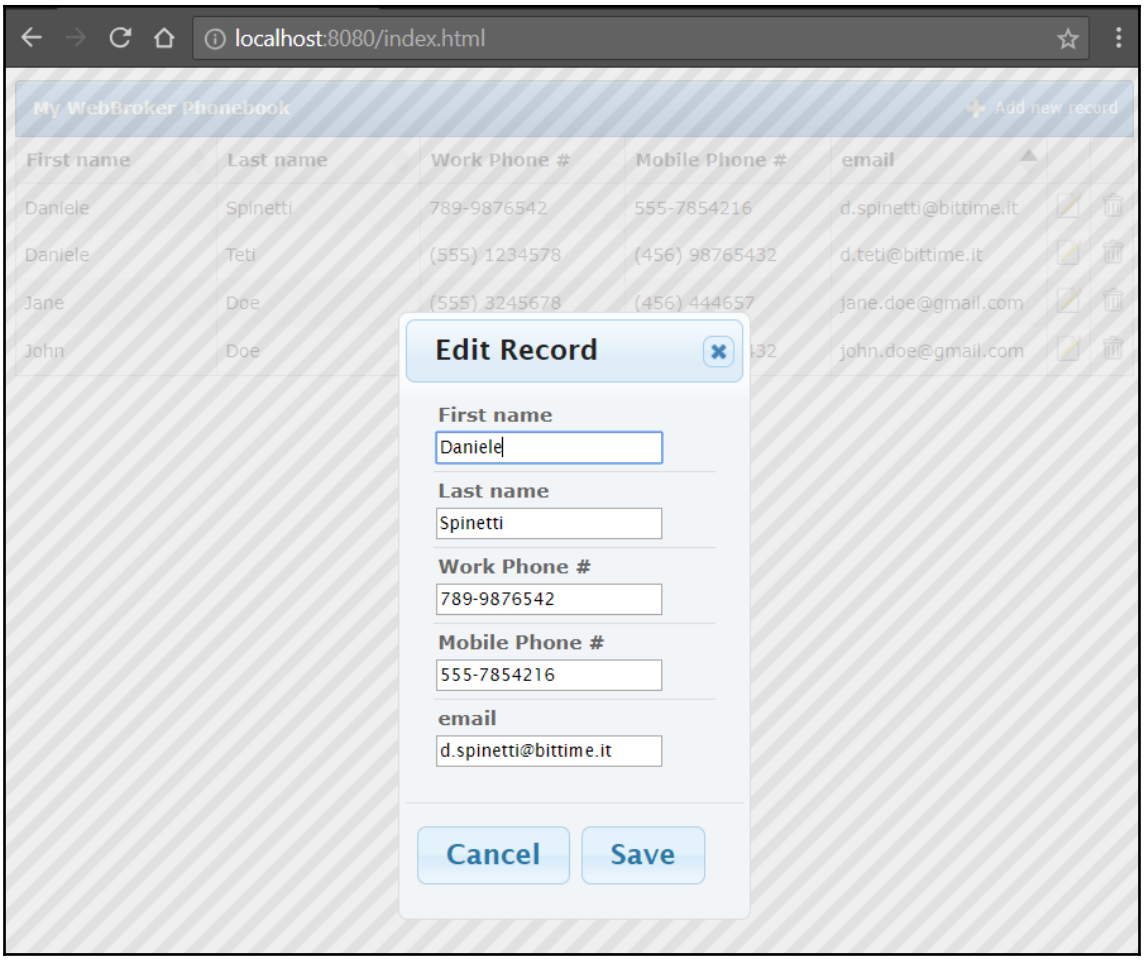
# Chapter 6: Putting Delphi on the Server

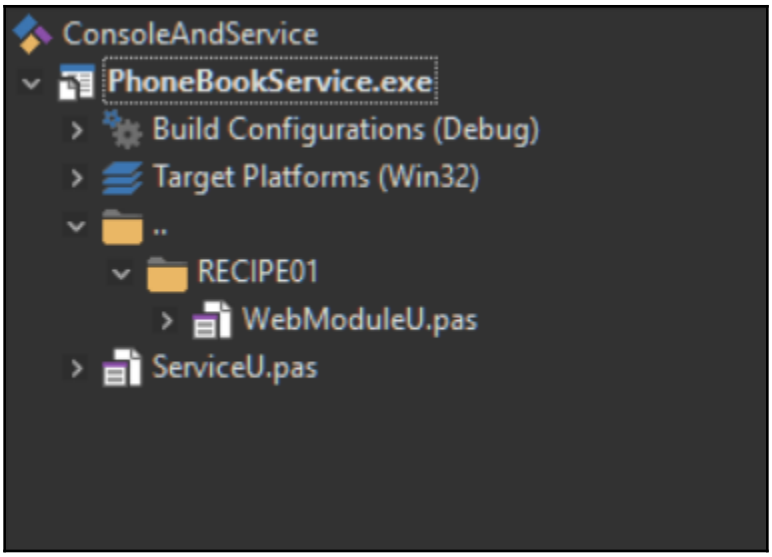


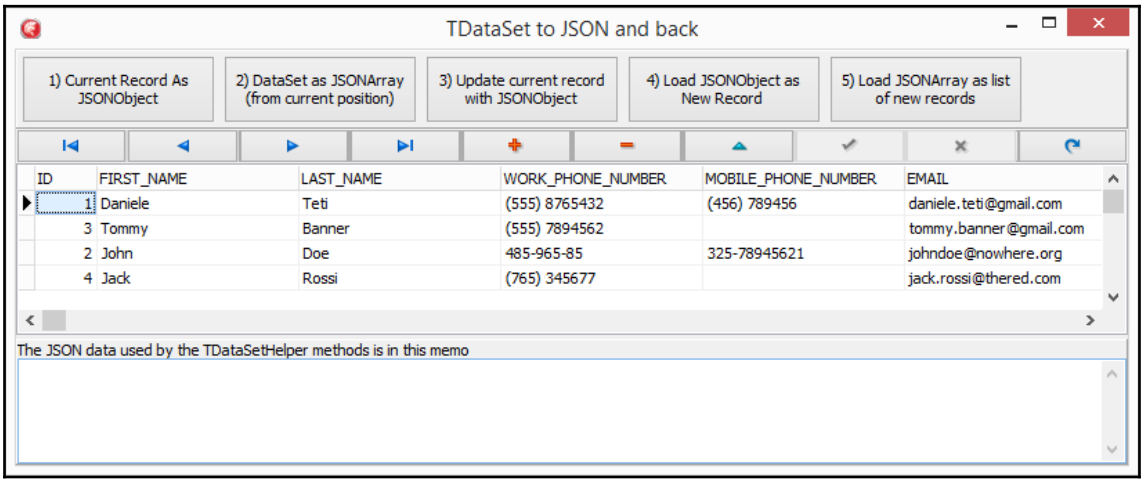



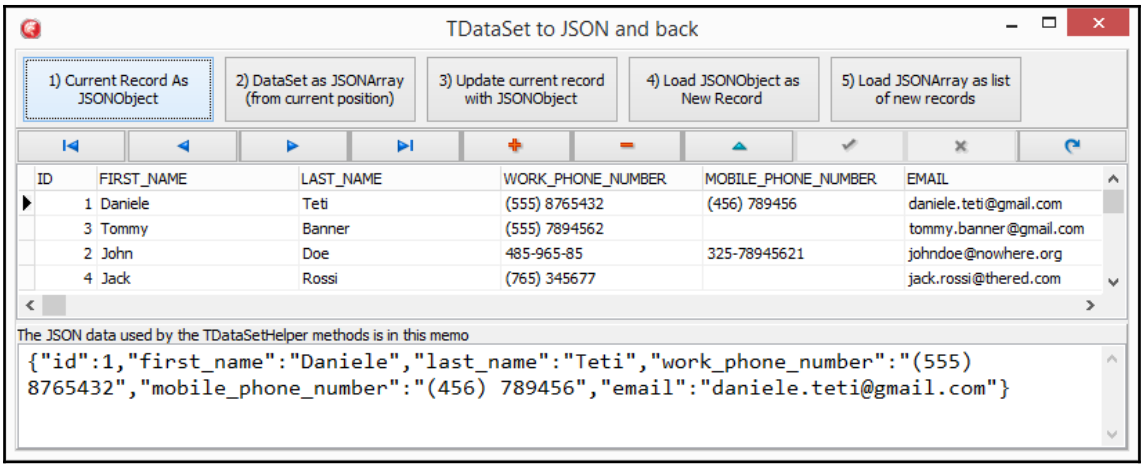

DCU
www
MainDM.dfm
MainDM.pas
PhoneBookServer.dpr
PhoneBookServer.dproj
PhoneBookServer.exe
PhoneBookServer.res
WebModuleU.dfm
WebModuleU.pas

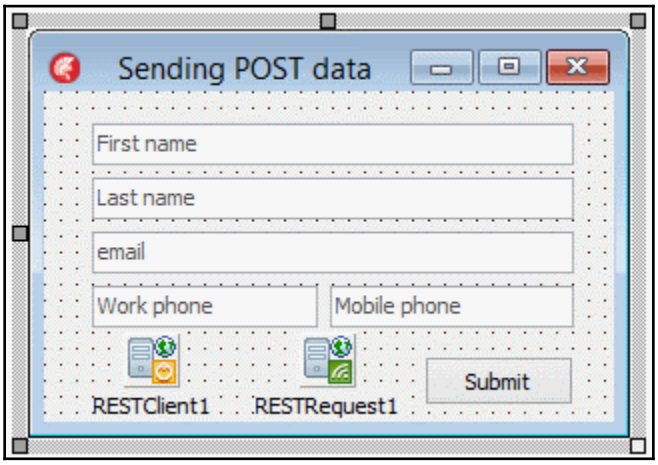

PhoneBookServer
WebModuleU
WebFileDispatcher1
cmdInsertPerson
cmdUpdatePerson
Connection
qryPeople
FDPhysIBDriverLink1
Editing wmMain.Actions
Name
PathInfo
Enabled
Default
Method
Producer
DefaultHandler
/
True
*
mtAny
waGetPeople
/getpeople
True
mtPost
waSavePerson
/saveperson
True
mtPost
waDeletePerson
/deleteperson
True
mtPost

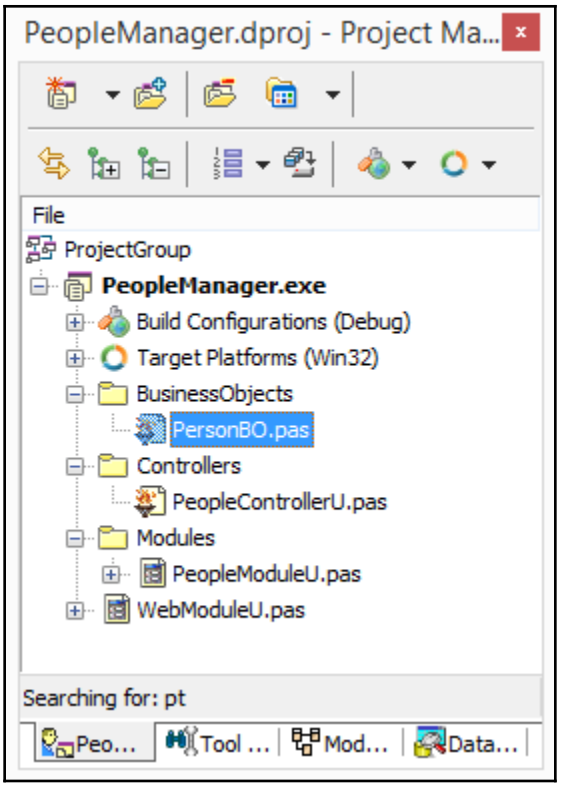

localhost:8080/index.html
My WebBroker Phonebook
Add new record
First name
Last name
Work Phone #
Mobile Phone #
email
Daniele
Spinetti
789-9876542
555-7854216
d.spinetti@bittime.it
Daniele
Teti
(555) 1234578
(456) 98765432
d.teti@bittime.it
Jane
Doe
(555) 3245678
(456) 444657
jane.doe@gmail.com
John
Doe
john.doe@gmail.com
Edit Record
First name
Daniele
Last name
Spinetti
Work Phone #
789-9876542
Mobile Phone #
555-7854216
email
d.spinetti@bittime.it
Cancel
Save

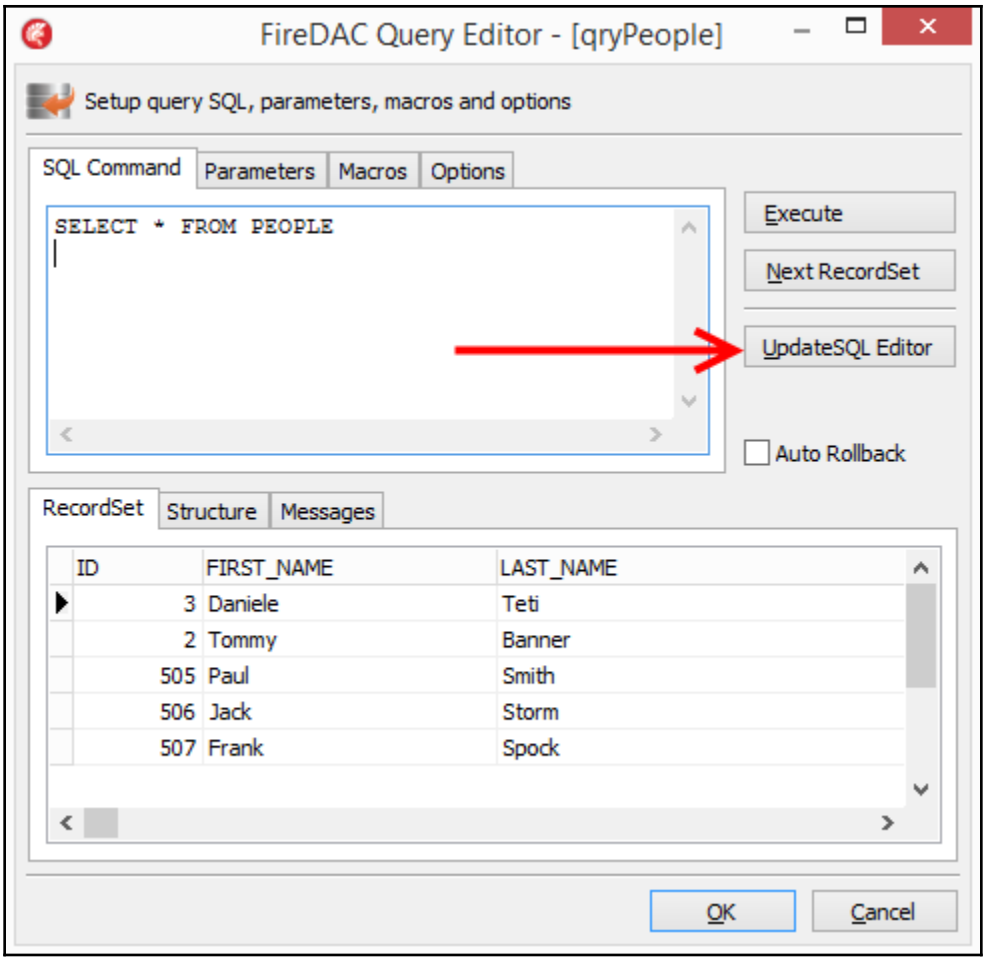

ConsoleAndService
PhoneBookService.exe
Build Configurations (Debug)
Target Platforms (Win32)
..
RECIPE01
WebModuleU.pas
ServiceU.pas

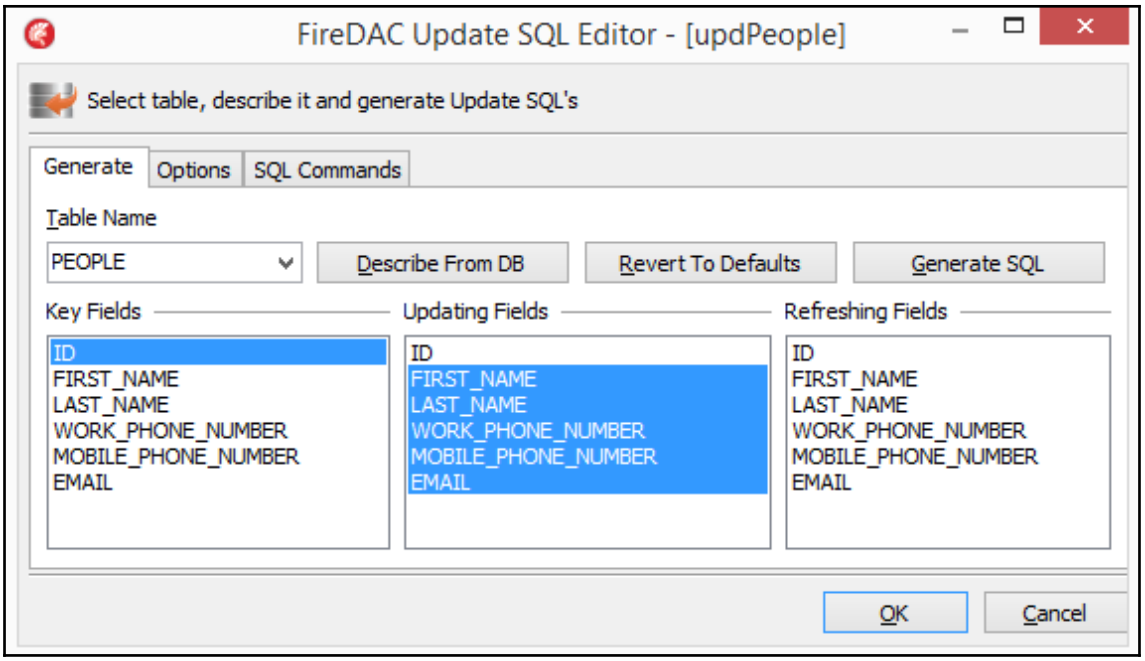

TDataSet to JSON and back
1) Current Record As JSONObject
2) DataSet as JSONArray (from current position)
3) Update current record with JSONObject
4) Load JSONObject as New Record
5) Load JSONArray as list of new records
ID FIRST_NAME LAST_NAME WORK_PHONE_NUMBER MOBILE_PHONE_NUMBER EMAIL
1 Daniele Teti (555) 8765432 (456) 789456 daniele.teti@gmail.com
3 Tommy Banner (555) 7894562 tommy.banner@gmail.com
2 John Doe 485-965-85 325-78945621 johndoe@nowhere.org
4 Jack Rossi (765) 345677 jack.rossi@thered.com
The JSON data used by the TDataSetHelper methods is in this memo


TDataSet to JSON and back
1) Current Record As JSONObject
2) DataSet as JSONArray (from current position)
3) Update current record with JSONObject
4) Load JSONObject as New Record
5) Load JSONArray as list of new records
ID
FIRST_NAME
LAST_NAME
WORK_PHONE_NUMBER
MOBILE_PHONE_NUMBER
EMAIL
1 Daniele Teti (555) 8765432 (456) 789456 daniele.teti@gmail.com
3 Tommy Banner (555) 7894562 tommy.banner@gmail.com
2 John Doe 485-965-85 325-78945621 johndoe@nowhere.org
4 Jack Rossi (765) 345677 jack.rossi@thered.com
The JSON data used by the TDataSetHelper methods is in this memo
{"id":1,"first_name":"Daniele","last_name":"Teti","work_phone_number":"(555) 8765432","mobile_phone_number":"(456) 789456","email":"daniele.teti@gmail.com"}


Sending POST data
First name
Last name
email
Work phone
Mobile phone
Submit
RESTClient1
RESTRequest1

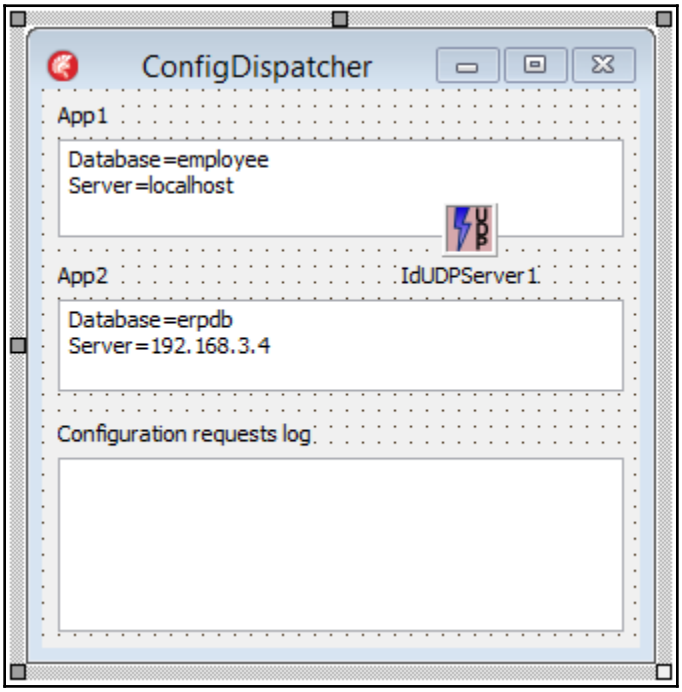

PeopleManager.dproj - Project Ma...
File
ProjectGroup
PeopleManager.exe
Build Configurations (Debug)
Target Platforms (Win32)
BusinessObjects
PersonBO.pas
Controllers
PeopleControllerU.pas
Modules
PeopleModuleU.pas
WebModuleU.pas
Searching for: pt
Peo...
Tool ...
Mod...
Data...


FireDAC Query Editor - [qryPeople]
Setup query SQL, parameters, macros and options
SQL Command
Parameters
Macros
Options
SELECT * FROM PEOPLE
Execute
Next RecordSet
UpdateSQL Editor
Auto Rollback
RecordSet
Structure
Messages
ID
FIRST_NAME
LAST_NAME
3 Daniele Teti
2 Tommy Banner
505 Paul Smith
506 Jack Storm
507 Frank Spock
OK
Cancel

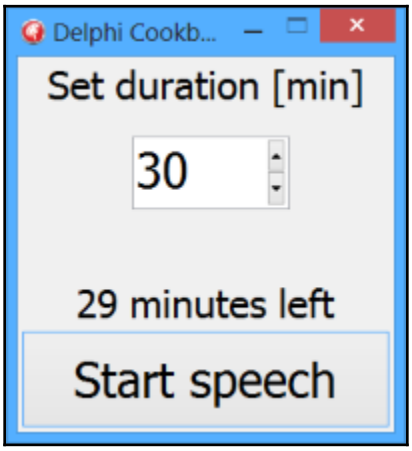

FireDAC Update SQL Editor - [updPeople]
Select table, describe it and generate Update SQL's
Generate
Options
SQL Commands
Table Name
PEOPLE
Describe From DB
Revert To Defaults
Generate SQL
Key Fields
Updating Fields
Refreshing Fields
ID
FIRST_NAME
LAST_NAME
WORK_PHONE_NUMBER
MOBILE_PHONE_NUMBER
EMAIL
OK
Cancel

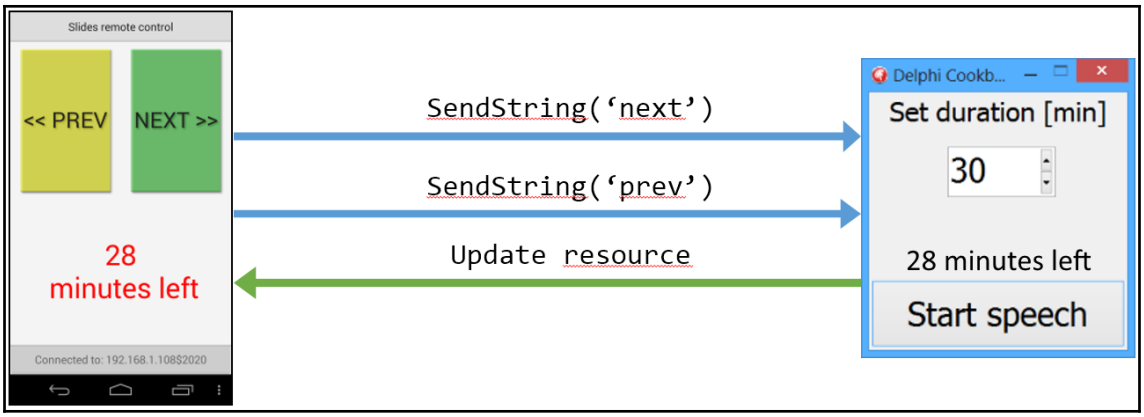
localhost:8080/people
localhost:8080/people
[{"ID":3,"FIRST_NAME":"Daniele","LAST_NAME":"Teti","WORK_PHONE_NUMBER":"
(555) 7894562 ","EMAIL":"tommy.banner@gmail.com"},
{"ID":2,"FIRST_NAME":"Tommy","LAST_NAME":"Banner","WORK_PHONE_NUMBER":"UPDAT
ED","MOBILE_PHONE_NUMBER":"UPDATED","EMAIL":"daniele.teti@gmail.com"},
{"ID":505,"FIRST_NAME":"Paul","LAST_NAME":"Smith","WORK_PHONE_NUMBER":"(555)
8765432","MOBILE_PHONE_NUMBER":"(456)
789456","EMAIL":"paul.smith@gmail.com"},
{"ID":506,"FIRST_NAME":"Jack","LAST_NAME":"Storm","WORK_PHONE_NUMBER":"(555)
1234578","MOBILE_PHONE_NUMBER":"(456)
98765432","EMAIL":"daniele.teti@gmail.com"},
{"ID":507,"FIRST_NAME":"Frank","LAST_NAME":"Spock","WORK_PHONE_NUMBER":"
(555) 1234578","MOBILE_PHONE_NUMBER":"(456)
98765432","EMAIL":"daniele.teti@gmail.com"}]

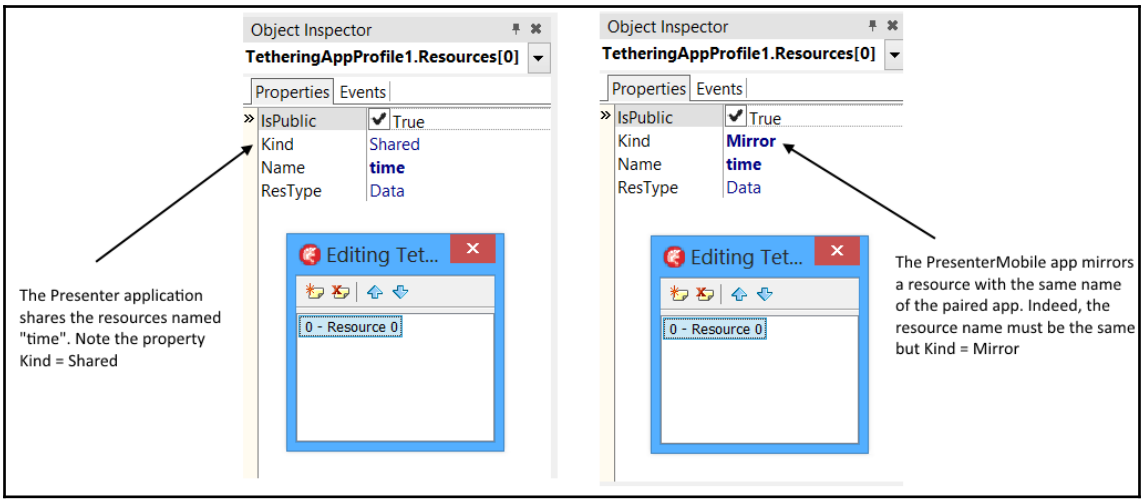
localhost:8080/people/3
localhost:8080/people/3
{"ID":3,"FIRST_NAME":"Daniele","LAST_NAME":"Teti","WORK_PHONE_NUMBER":
"(555) 7894562 ","EMAIL":"tommy.banner@gmail.com"}

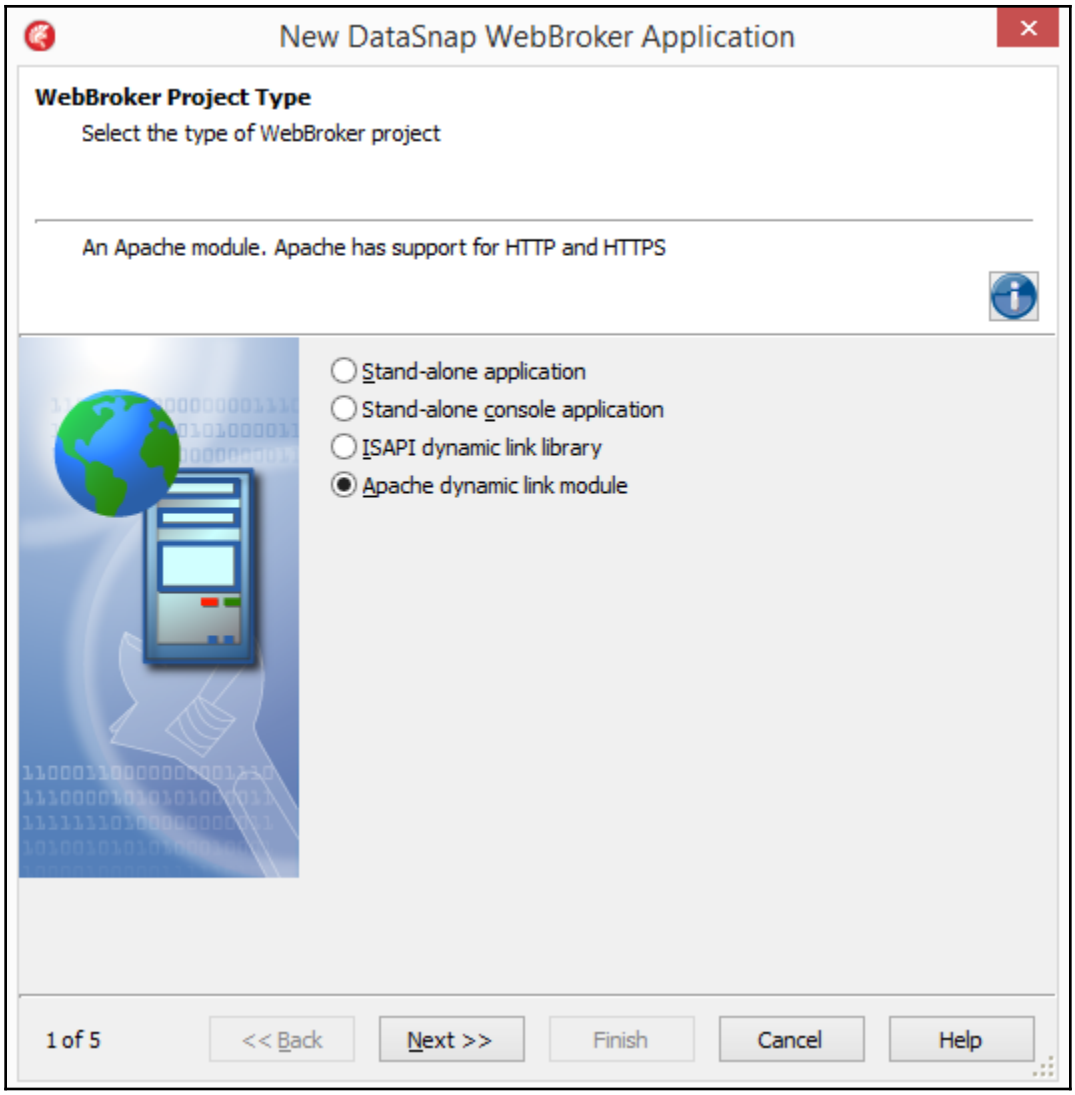

ConfigDispatcher
App1
Database=employee
Server=localhost
IdUDPServer1
App2
Database=erpdb
Server=192.168.3.4
Configuration requests log

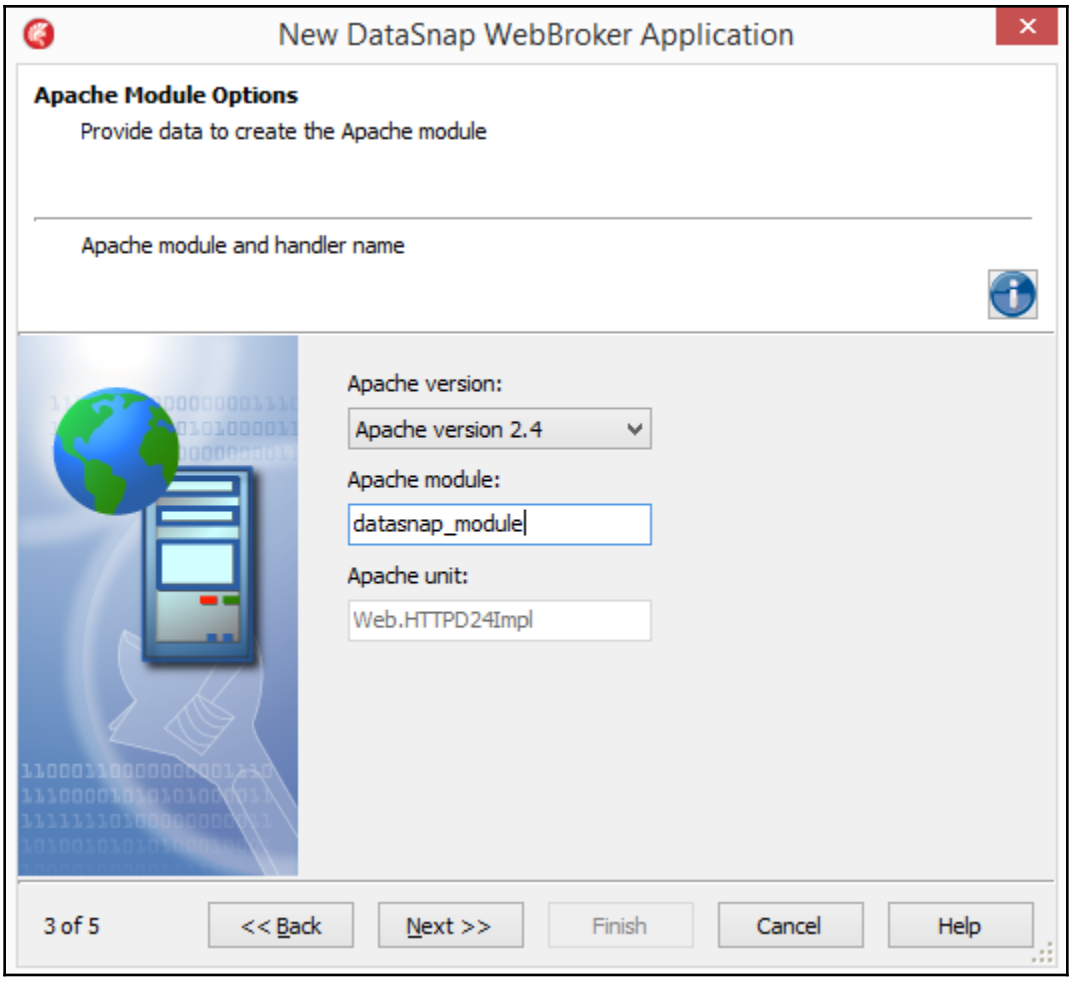
Slides remote control
<< PREV
NEXT >>
28
minutes left
Connected to: 192.168.1.108$2020

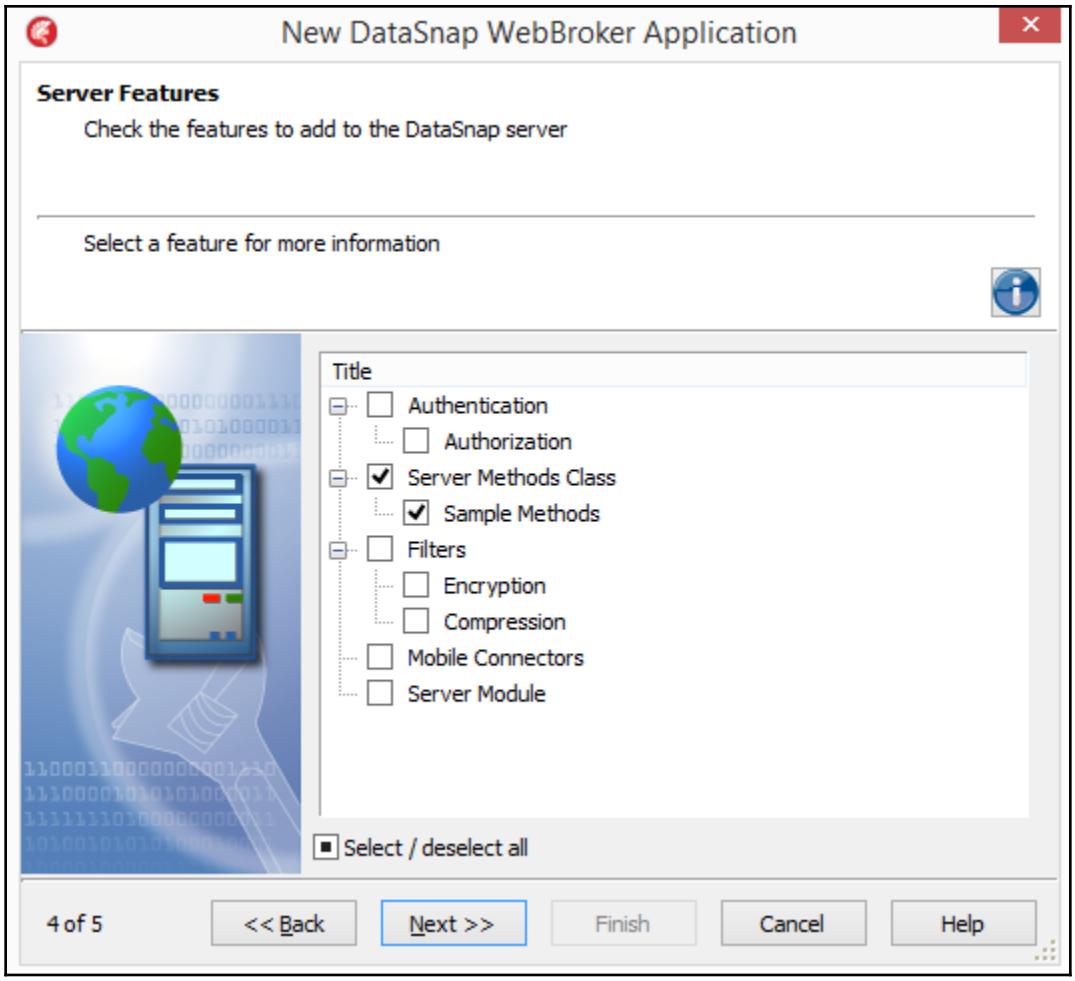

Delphi Cookb...
Set duration [min]
30
29 minutes left
Start speech

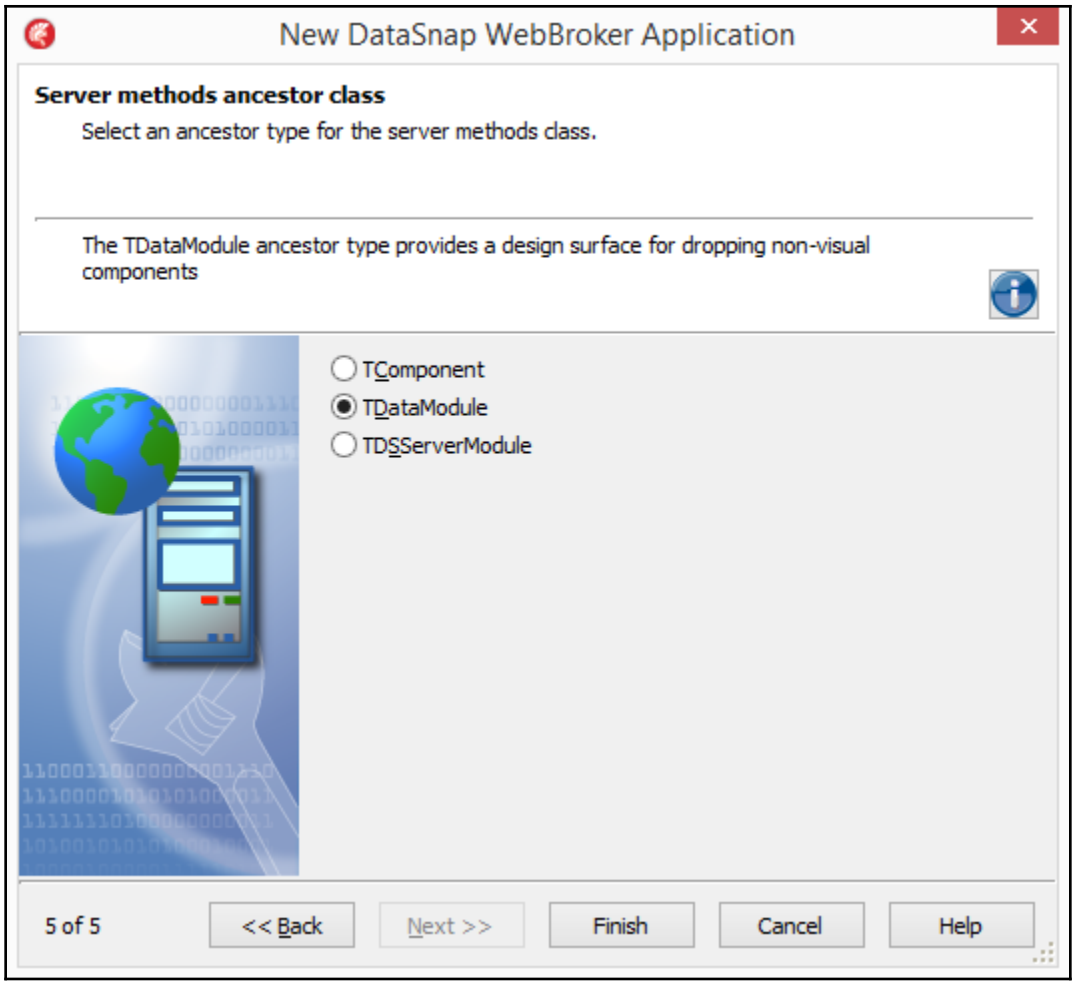

Slides remote control
<< PREV
NEXT >>
28
minutes left
Connected to: 192.168.1.108$2020
SendString('next')
SendString('prev')
Update resource
Delphi Cookb...
Set duration [min]
30
28 minutes left
Start speech

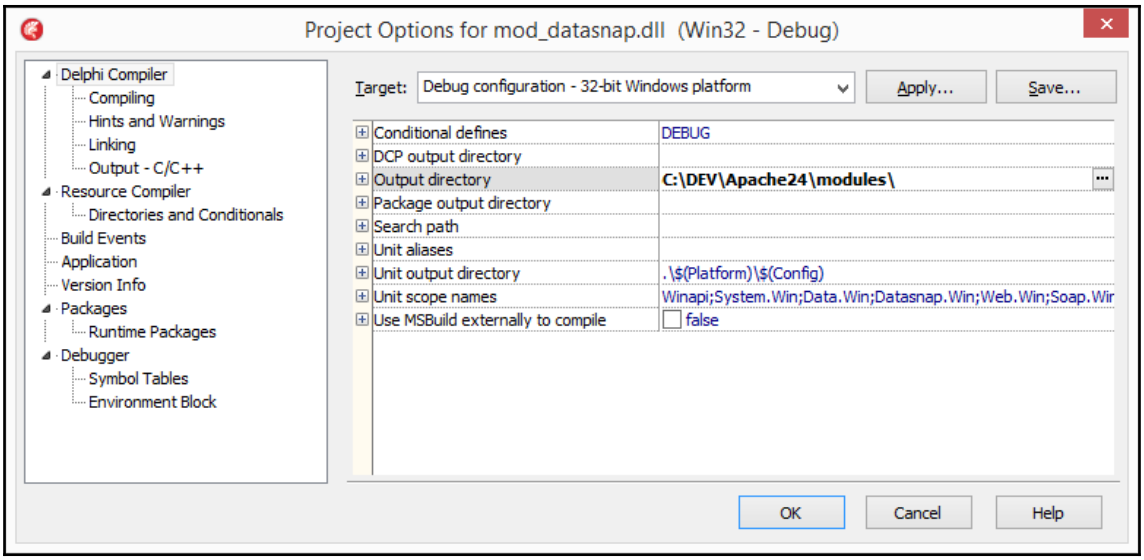

Object Inspector
TetheringAppProfile1.Resources[0]
Properties
Events
IsPublic
True
Kind
Shared
Name
time
ResType
Data
Editing Tet...
0 - Resource 0
The Presenter application shares the resources named "time". Note the property Kind = Shared
Object Inspector
TetheringAppProfile1.Resources[0]
Properties
Events
IsPublic
True
Kind
Mirror
Name
time
ResType
Data
Editing Tet...
0 - Resource 0
The PresenterMobile app mirrors a resource with the same name of the paired app. Indeed, the resource name must be the same but Kind = Mirror

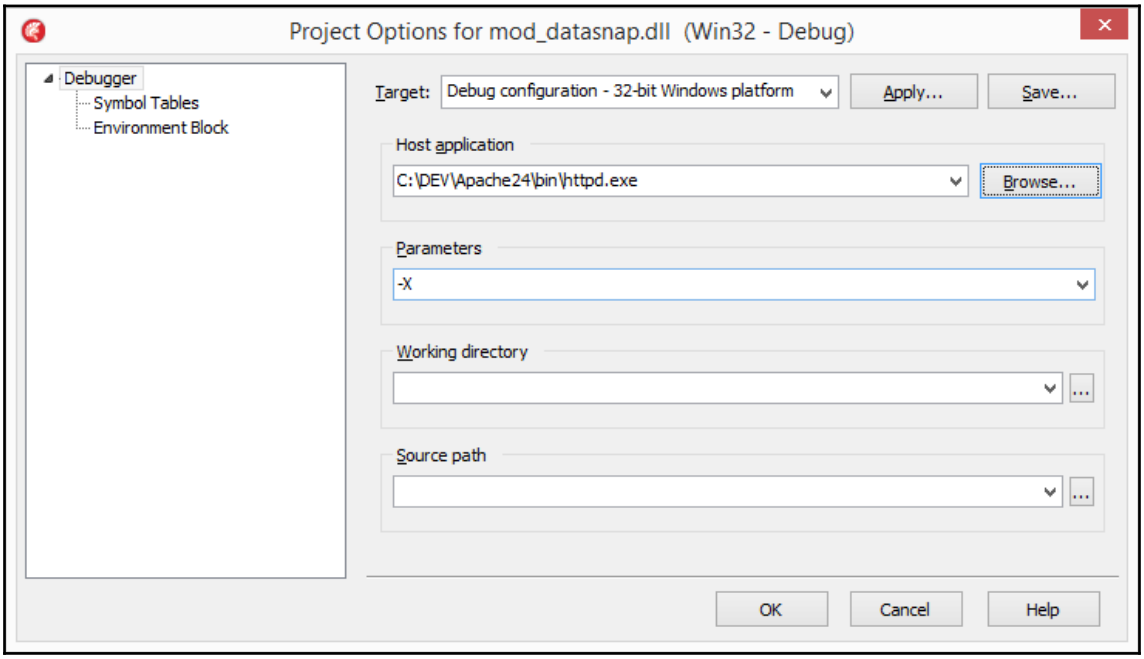

New DataSnap WebBroker Application
WebBroker Project Type
Select the type of WebBroker project
An Apache module. Apache has support for HTTP and HTTPS
Stand-alone application
Stand-alone console application
ISAPI dynamic link library
Apache dynamic link module
1 of 5
<< Back
Next >>
Finish
Cancel
Help

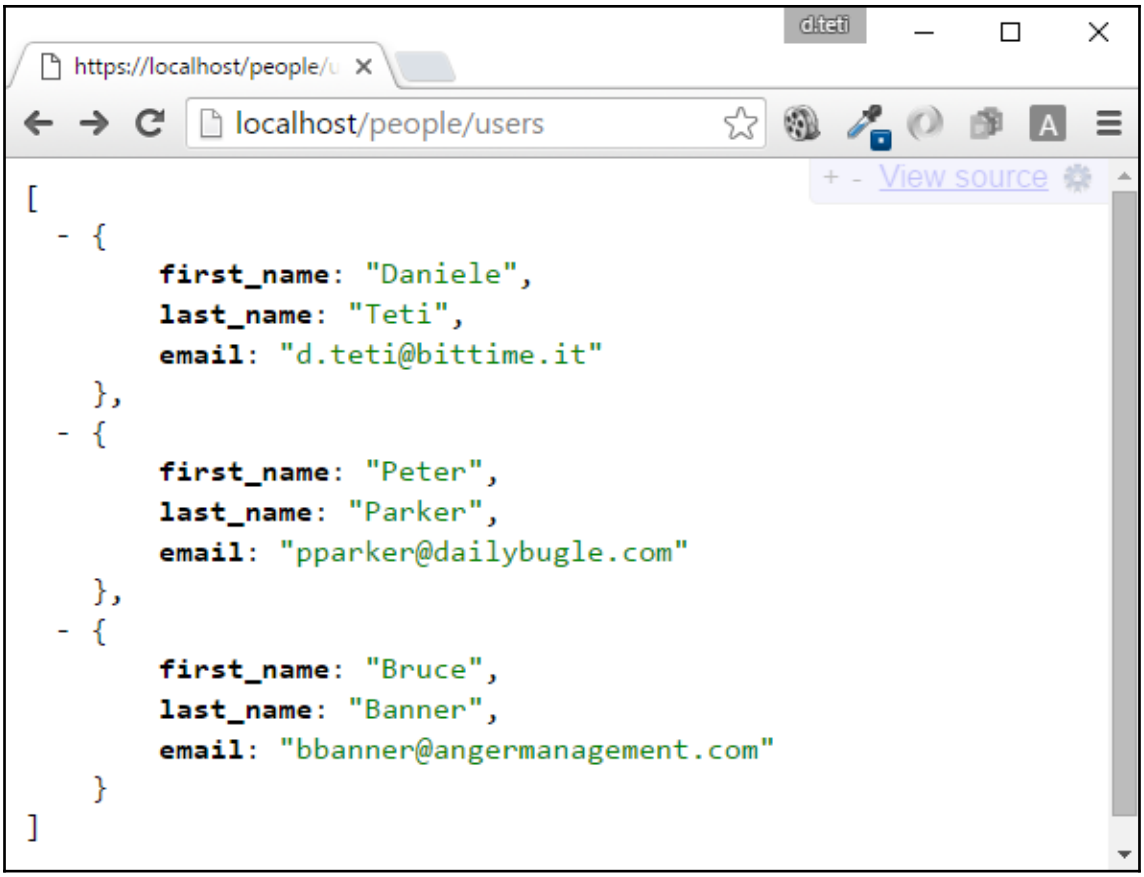

New DataSnap WebBroker Application
Apache Module Options
Provide data to create the Apache module
Apache module and handler name
Apache version:
Apache version 2.4
Apache module:
datasnap_module
Apache unit:
Web.HTTPD24Impl
3 of 5
<< Back
Next >>
Finish
Cancel
Help

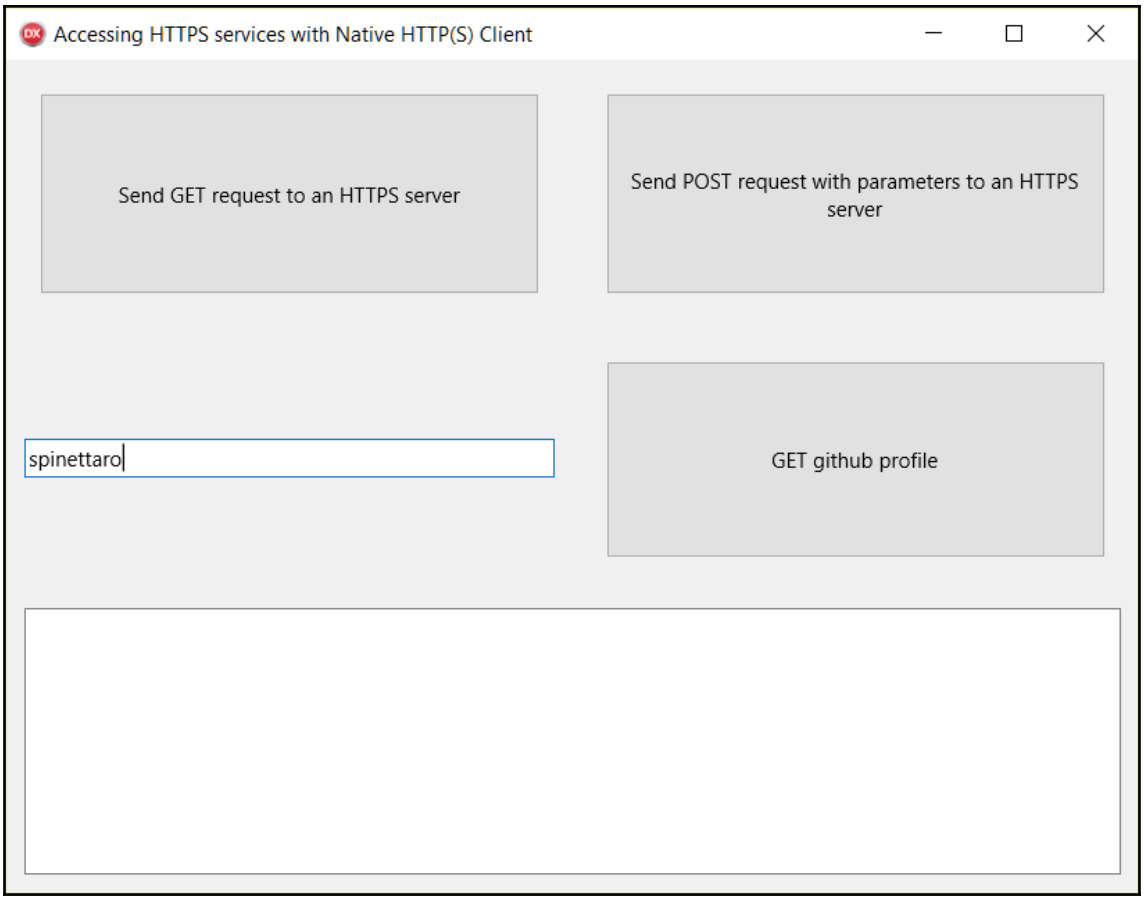

New DataSnap WebBroker Application
Server Features
Check the features to add to the DataSnap server
Select a feature for more information
Title
Authentication
Authorization
Server Methods Class
Sample Methods
Filters
Encryption
Compression
Mobile Connectors
Server Module
Select / deselect all
4 of 5
<< Back
Next >>
Finish
Cancel
Help

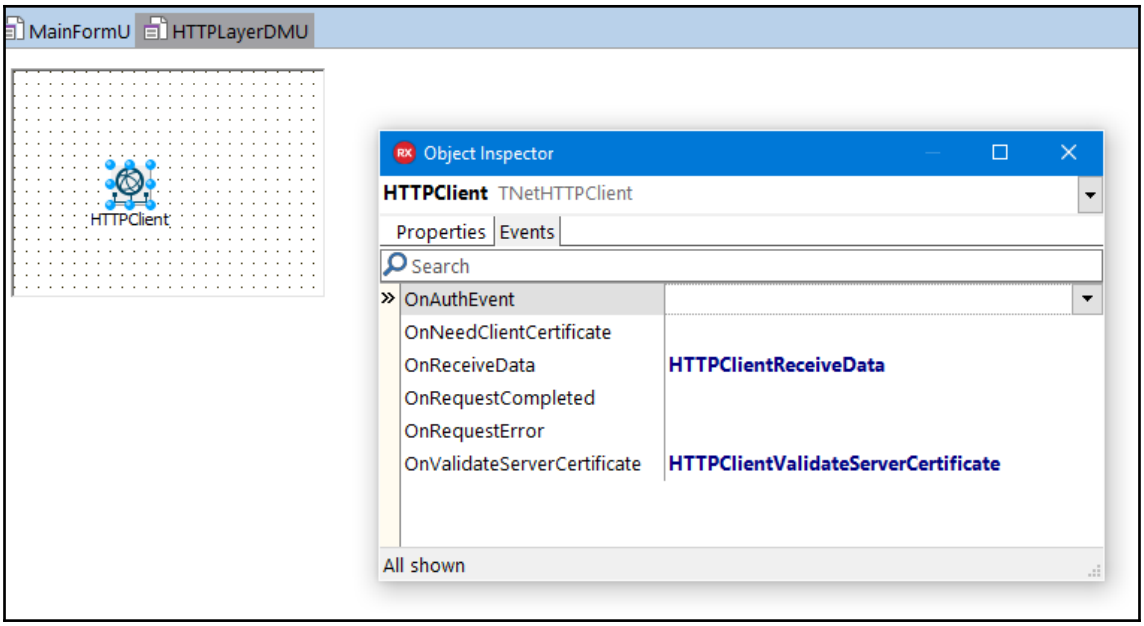

New DataSnap WebBroker Application
Server methods ancestor class
Select an ancestor type for the server methods class.
The TDataModule ancestor type provides a design surface for dropping non-visual components
TComponent
TDataModule
TDSServerModule
5 of 5
<< Back
Next >>
Finish
Cancel
Help

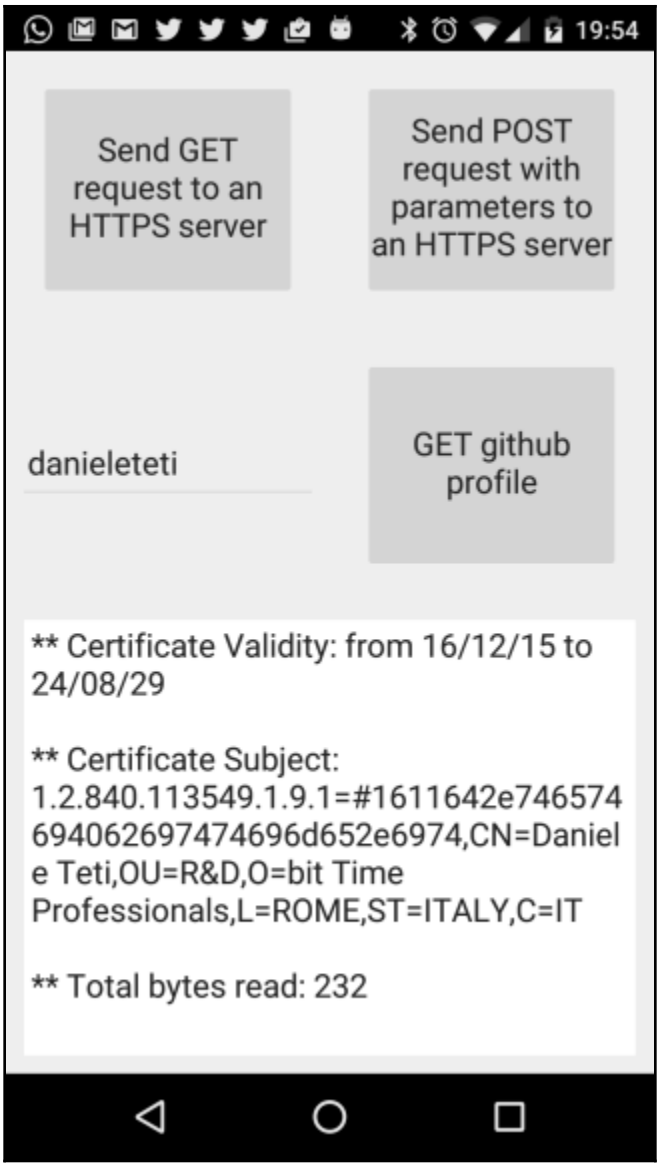

Project Options for mod_datasnap.dll (Win32 - Debug)
Delphi Compiler
Compiling
Hints and Warnings
Linking
Output - C/C++
Resource Compiler
Directories and Conditionals
Build Events
Application
Version Info
Packages
Runtime Packages
Debugger
Symbol Tables
Environment Block
Target:
Debug configuration - 32-bit Windows platform
Apply...
Save...
Conditional defines
DEBUG
DCP output directory
Output directory
C:\DEV\Apache24\modules\
Package output directory
Search path
Unit aliases
Unit output directory
.\$(Platform)\$(Config)
Unit scope names
Winapi;System.Win;Data.Win;Datasnap.Win;Web.Win;Soap.Wir
Use MSBuild externally to compile
false
OK
Cancel
Help

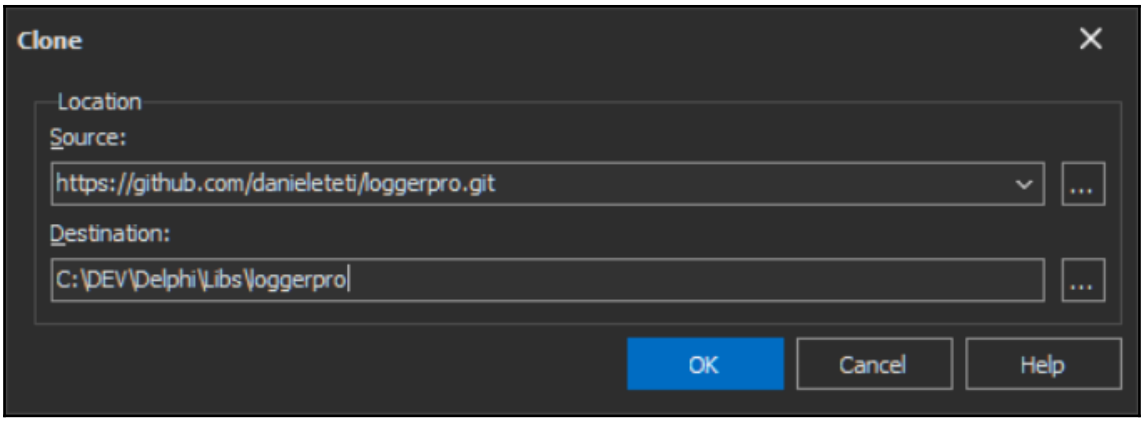

Project Options for mod_datasnap.dll (Win32 - Debug)
Debugger
Symbol Tables
Environment Block
Target:
Debug configuration - 32-bit Windows platform
Apply...
Save...
Host application
C:\DEV\Apache24\bin\httpd.exe
Browse...
Parameters
-X
Working directory
Source path
OK
Cancel
Help

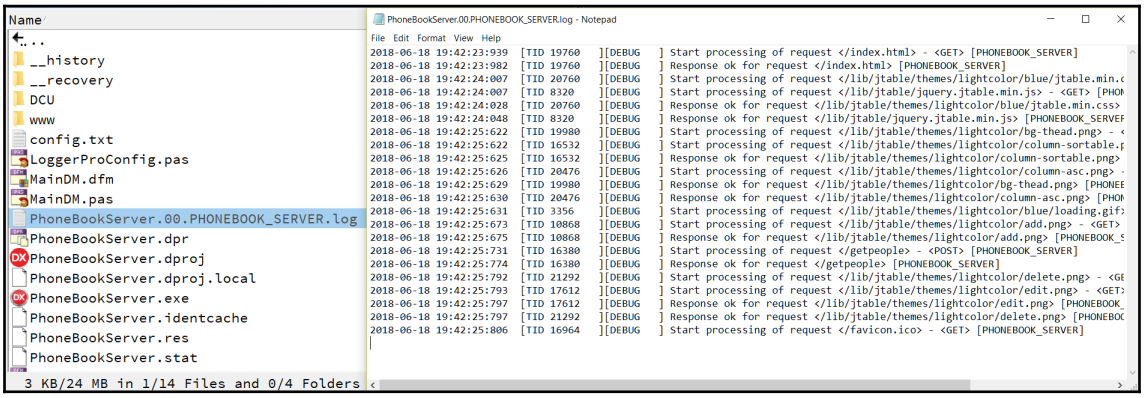

d.teti
https://localhost/people/
localhost/people/users
+ - View source
[
- {
first_name: "Daniele",
last_name: "Teti",
email: "d.teti@bittime.it"
},
- {
first_name: "Peter",
last_name: "Parker",
email: "pparker@dailybugle.com"
},
- {
first_name: "Bruce",
last_name: "Banner",
email: "bbanner@angermanagement.com"
}
]

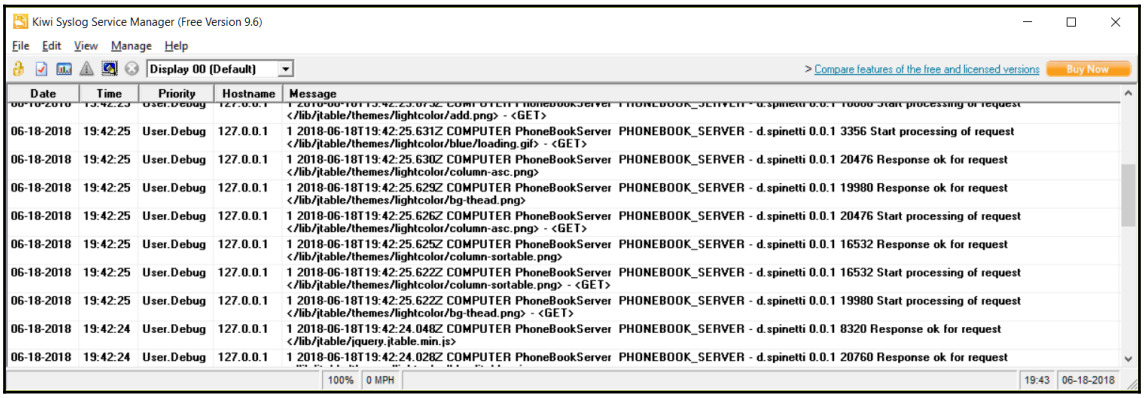

Accessing HTTPS services with Native HTTP(S) Client
Send GET request to an HTTPS server
Send POST request with parameters to an HTTPS server
spinettaro
GET github profile


MainFormU
HTTPLayerDMU
HTTPClient
Object Inspector
HTTPClient TNetHTTPClient
Properties
Events
Search
OnAuthEvent
OnNeedClientCertificate
OnReceiveData
HTTPClientReceiveData
OnRequestCompleted
OnRequestError
OnValidateServerCertificate
HTTPClientValidateServerCertificate
All shown

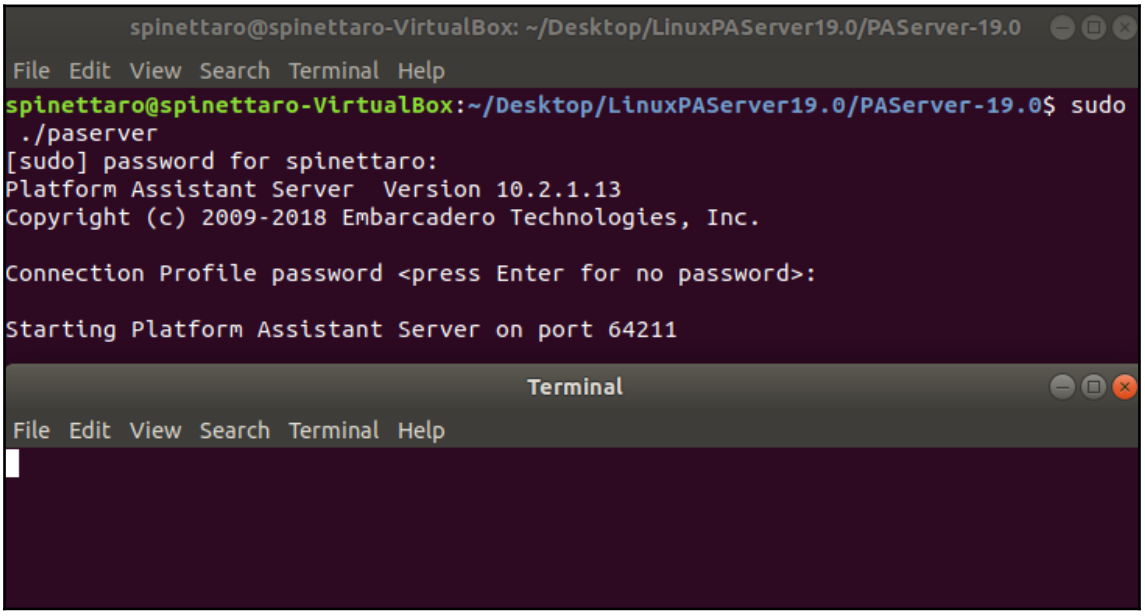

19:54
Send GET request to an HTTPS server
Send POST request with parameters to an HTTPS server
danieleteti
GET github profile
** Certificate Validity: from 16/12/15 to 24/08/29
** Certificate Subject: 1.2.840.113549.1.9.1=#1611642e74657469406269747469 6d652e6974,CN=Daniele Teti,OU=R&D,O=bit Time Professionals,L=ROME,ST=ITALY,C=IT
** Total bytes read: 232

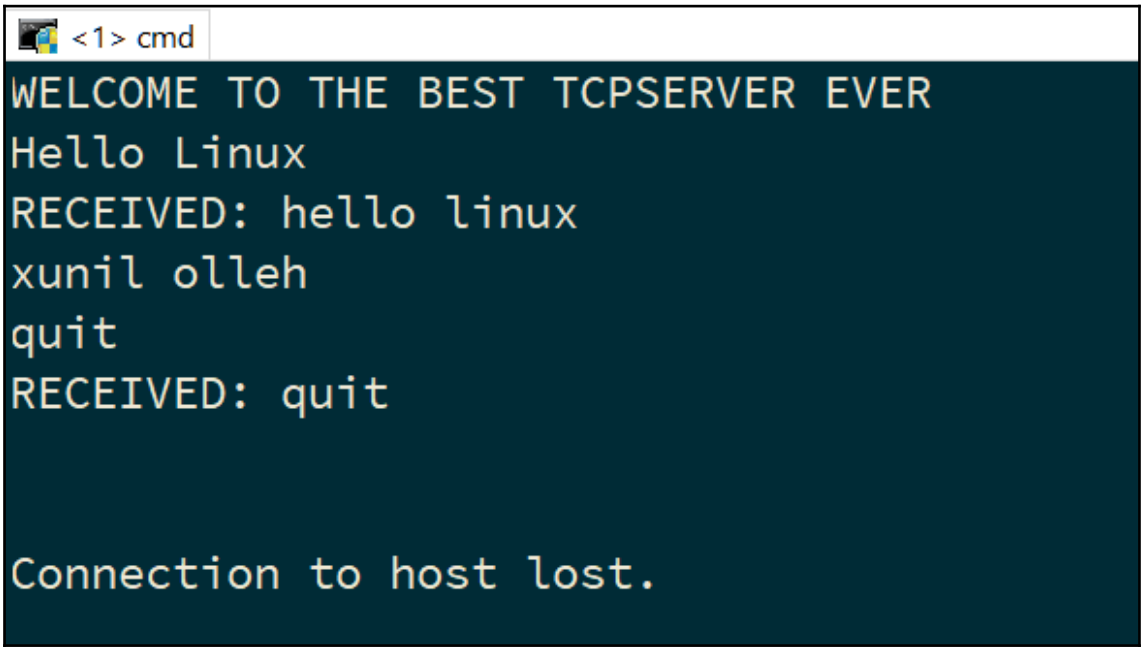

Clone
Location
Source:
https://github.com/danieleteti/loggerpro.git
Destination:
C:\DEV\Delphi\Libs\loggerpro
OK
Cancel
Help

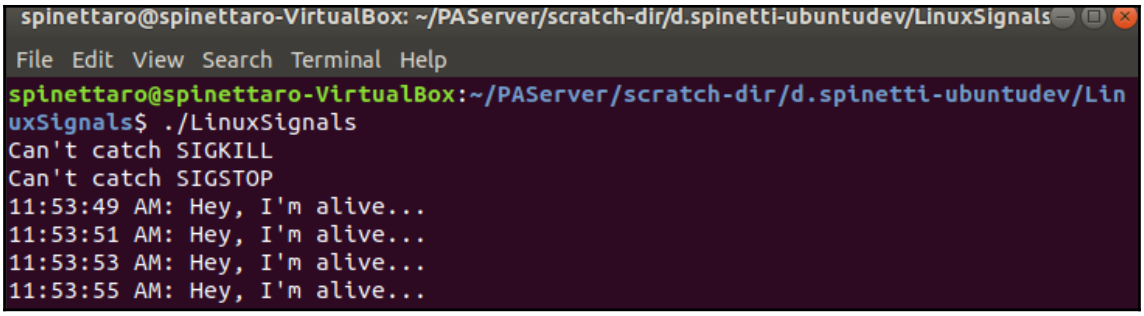

Name
..
__history
__recovery
DCU
www
config.txt
LoggerProConfig.pas
MainDM.dfm
MainDM.pas
PhoneBookServer.00.PHONEBOOK_SERVER.log
PhoneBookServer.dpr
PhoneBookServer.dproj
PhoneBookServer.dproj.local
PhoneBookServer.exe
PhoneBookServer.identcache
PhoneBookServer.res
PhoneBookServer.stat
3 KB/24 MB in 1/14 Files and 0/4 Folders
PhoneBookServer.00.PHONEBOOK_SERVER.log - Notepad
File Edit Format View Help
2018-06-18 19:42:23:939 [TID 19760 ][DEBUG ] Start processing of request </index.html> - <GET> [PHONEBOOK_SERVER]
2018-06-18 19:42:23:982 [TID 19760 ][DEBUG ] Response ok for request </index.html> [PHONEBOOK_SERVER]
2018-06-18 19:42:24:007 [TID 20760 ][DEBUG ] Start processing of request </lib/jtable/themes/lightcolor/blue/jtable.min.c
2018-06-18 19:42:24:007 [TID 8320 ][DEBUG ] Start processing of request </lib/jtable/jquery.jtable.min.js> - <GET> [PHO
2018-06-18 19:42:24:028 [TID 20760 ][DEBUG ] Response ok for request </lib/jtable/themes/lightcolor/blue/jtable.min.css>
2018-06-18 19:42:24:048 [TID 8320 ][DEBUG ] Response ok for request </lib/jtable/jquery.jtable.min.js> [PHONEBOOK_SERVEF
2018-06-18 19:42:25:622 [TID 19980 ][DEBUG ] Start processing of request </lib/jtable/themes/lightcolor/bg-thead.png> - <
2018-06-18 19:42:25:622 [TID 16532 ][DEBUG ] Start processing of request </lib/jtable/themes/lightcolor/column-sortable.p
2018-06-18 19:42:25:625 [TID 16532 ][DEBUG ] Response ok for request </lib/jtable/themes/lightcolor/column-sortable.png>
2018-06-18 19:42:25:626 [TID 20476 ][DEBUG ] Start processing of request </lib/jtable/themes/lightcolor/column-asc.png> -
2018-06-18 19:42:25:629 [TID 19980 ][DEBUG ] Response ok for request </lib/jtable/themes/lightcolor/bg-thead.png> [PHONEE
2018-06-18 19:42:25:630 [TID 20476 ][DEBUG ] Response ok for request </lib/jtable/themes/lightcolor/column-asc.png> [PHO
2018-06-18 19:42:25:631 [TID 3356 ][DEBUG ] Start processing of request </lib/jtable/themes/lightcolor/blue/loading.gif>
2018-06-18 19:42:25:673 [TID 10868 ][DEBUG ] Start processing of request </lib/jtable/themes/lightcolor/add.png> - <GET>
2018-06-18 19:42:25:675 [TID 10868 ][DEBUG ] Response ok for request </lib/jtable/themes/lightcolor/add.png> [PHONEBOOK_S
2018-06-18 19:42:25:731 [TID 16380 ][DEBUG ] Start processing of request </getpeople> - <POST> [PHONEBOOK_SERVER]
2018-06-18 19:42:25:774 [TID 16380 ][DEBUG ] Response ok for request </getpeople> [PHONEBOOK_SERVER]
2018-06-18 19:42:25:792 [TID 21292 ][DEBUG ] Start processing of request </lib/jtable/themes/lightcolor/delete.png> - <GE
2018-06-18 19:42:25:793 [TID 17612 ][DEBUG ] Start processing of request </lib/jtable/themes/lightcolor/edit.png> - <GET>
2018-06-18 19:42:25:797 [TID 17612 ][DEBUG ] Response ok for request </lib/jtable/themes/lightcolor/edit.png> [PHONEBOOK_
2018-06-18 19:42:25:797 [TID 21292 ][DEBUG ] Response ok for request </lib/jtable/themes/lightcolor/delete.png> [PHONEBOO
2018-06-18 19:42:25:806 [TID 16964 ][DEBUG ] Start processing of request </favicon.ico> - <GET> [PHONEBOOK_SERVER]

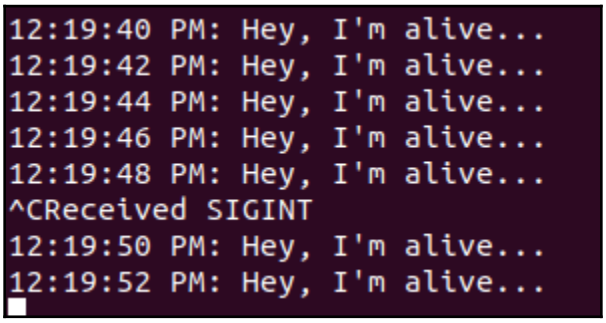

Kiwi Syslog Service Manager (Free Version 9.6)
File Edit View Manage Help
Display 00 (Default)
> Compare features of the free and licensed versions
Buy Now
Date Time Priority Hostname Message
06-18-2018 19:42:25 User.Debug 127.0.0.1 1 2018-06-18T19:42:25.631Z COMPUTER PhoneBookServer PHONEBOOK_SERVER - d.spinetti 0.0.1 3356 Start processing of request </lib/jtable/themes/lightcolor/blue/loading.gif> - <GET>
06-18-2018 19:42:25 User.Debug 127.0.0.1 1 2018-06-18T19:42:25.630Z COMPUTER PhoneBookServer PHONEBOOK_SERVER - d.spinetti 0.0.1 20476 Response ok for request </lib/jtable/themes/lightcolor/column-asc.png>
06-18-2018 19:42:25 User.Debug 127.0.0.1 1 2018-06-18T19:42:25.629Z COMPUTER PhoneBookServer PHONEBOOK_SERVER - d.spinetti 0.0.1 19980 Response ok for request </lib/jtable/themes/lightcolor/bg-thead.png>
06-18-2018 19:42:25 User.Debug 127.0.0.1 1 2018-06-18T19:42:25.626Z COMPUTER PhoneBookServer PHONEBOOK_SERVER - d.spinetti 0.0.1 20476 Start processing of request </lib/jtable/themes/lightcolor/column-asc.png> - <GET>
06-18-2018 19:42:25 User.Debug 127.0.0.1 1 2018-06-18T19:42:25.625Z COMPUTER PhoneBookServer PHONEBOOK_SERVER - d.spinetti 0.0.1 16532 Response ok for request </lib/jtable/themes/lightcolor/column-sortable.png>
06-18-2018 19:42:25 User.Debug 127.0.0.1 1 2018-06-18T19:42:25.622Z COMPUTER PhoneBookServer PHONEBOOK_SERVER - d.spinetti 0.0.1 16532 Start processing of request </lib/jtable/themes/lightcolor/column-sortable.png> - <GET>
06-18-2018 19:42:25 User.Debug 127.0.0.1 1 2018-06-18T19:42:25.622Z COMPUTER PhoneBookServer PHONEBOOK_SERVER - d.spinetti 0.0.1 19980 Start processing of request </lib/jtable/themes/lightcolor/bg-thead.png> - <GET>
06-18-2018 19:42:24 User.Debug 127.0.0.1 1 2018-06-18T19:42:24.048Z COMPUTER PhoneBookServer PHONEBOOK_SERVER - d.spinetti 0.0.1 8320 Response ok for request </lib/jtable/jquery.jtable.min.js>
06-18-2018 19:42:24 User.Debug 127.0.0.1 1 2018-06-18T19:42:24.028Z COMPUTER PhoneBookServer PHONEBOOK_SERVER - d.spinetti 0.0.1 20760 Response ok for request
100% 0 MPH
19:43 06-18-2018

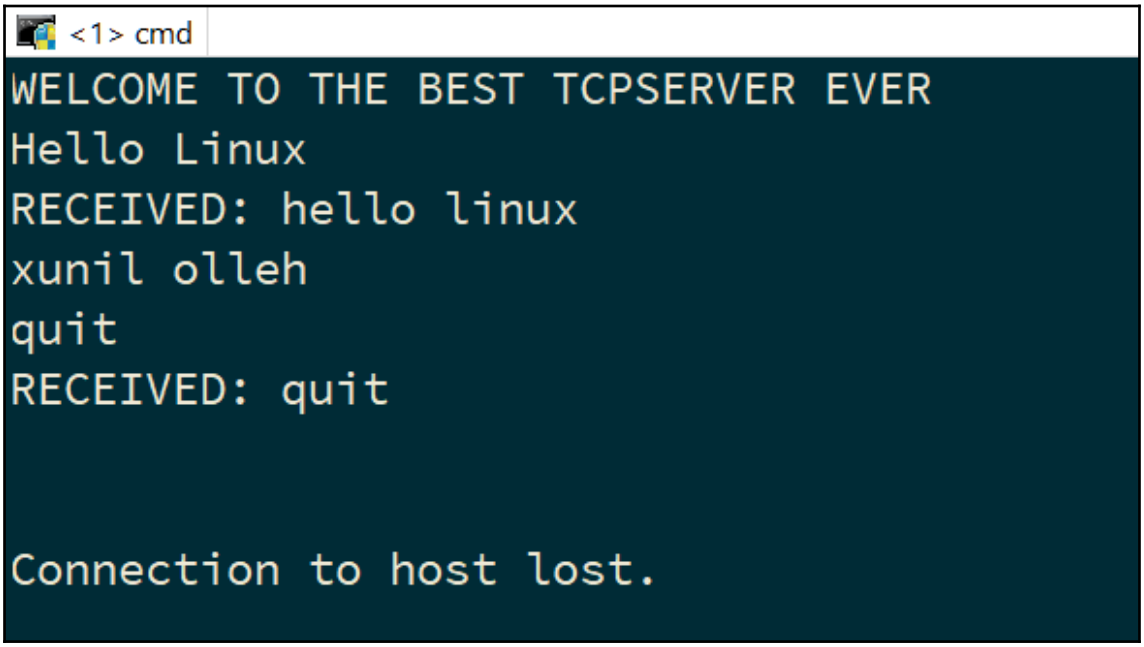
# Chapter 7: Linux Development

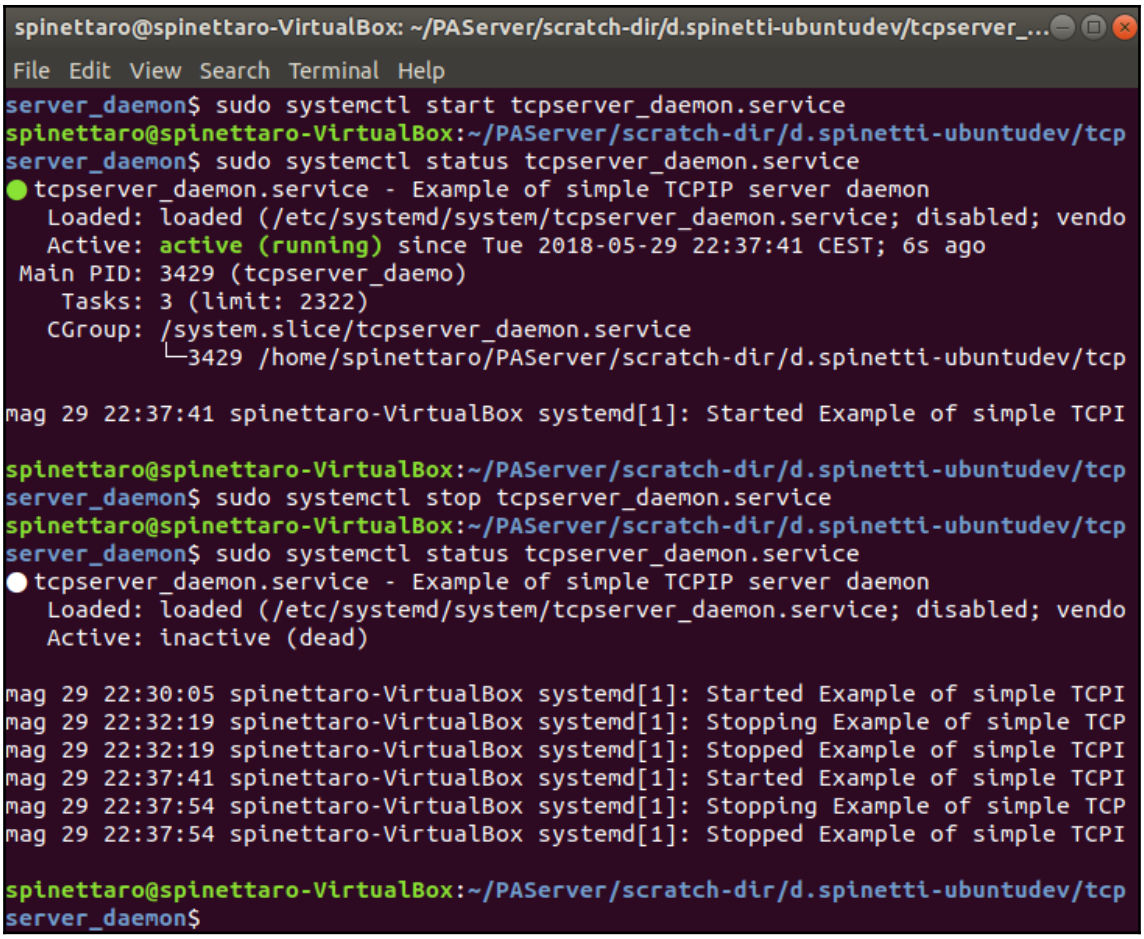


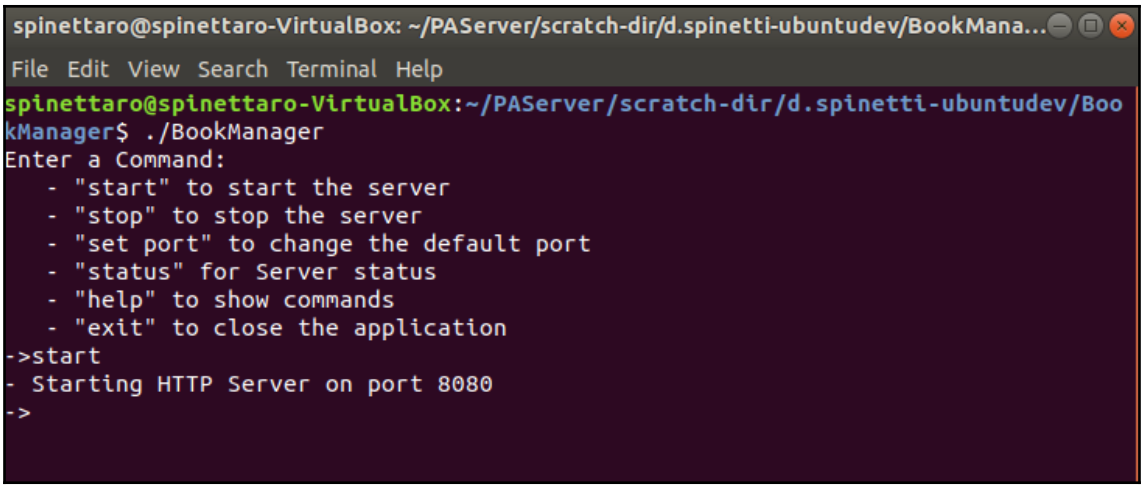




spinettaro@spinettaro-VirtualBox: ~/PAServer/scratch-dir/d.spinetti-ubuntudev/LinuxSignals
File Edit View Search Terminal Help
spinettaro@spinettaro-VirtualBox:~/PAServer/scratch-dir/d.spinetti-ubuntudev/LinuxSignals$ ./LinuxSignals
Can't catch SIGKILL
Can't catch SIGSTOP
11:53:49 AM: Hey, I'm alive...
11:53:51 AM: Hey, I'm alive...
11:53:53 AM: Hey, I'm alive...
11:53:55 AM: Hey, I'm alive...

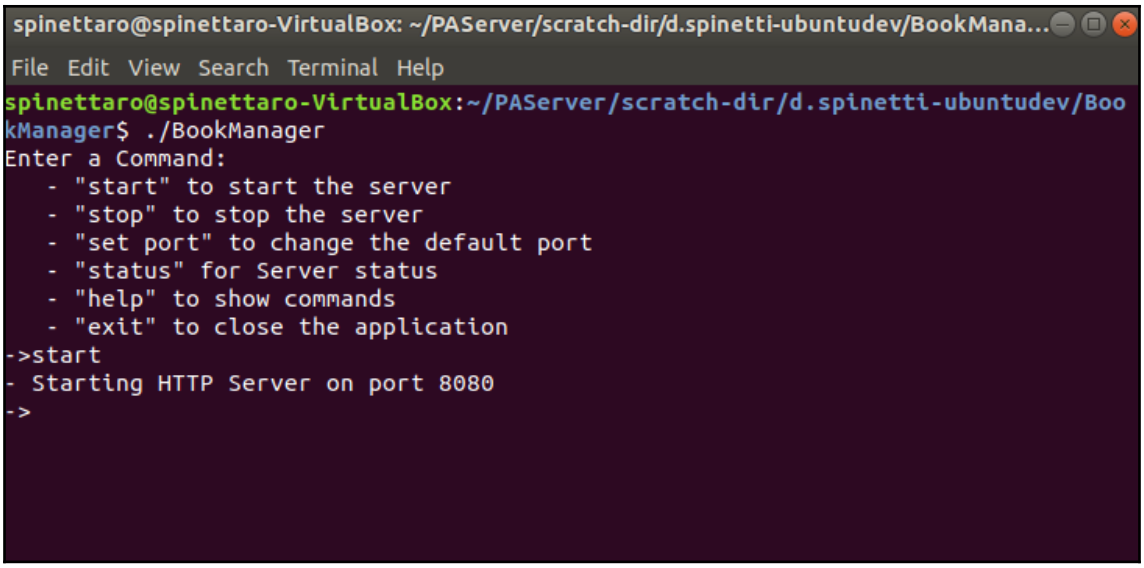

12:19:40 PM: Hey, I'm alive...
12:19:42 PM: Hey, I'm alive...
12:19:44 PM: Hey, I'm alive...
12:19:46 PM: Hey, I'm alive...
12:19:48 PM: Hey, I'm alive...
^CReceived SIGINT
12:19:50 PM: Hey, I'm alive...
12:19:52 PM: Hey, I'm alive...

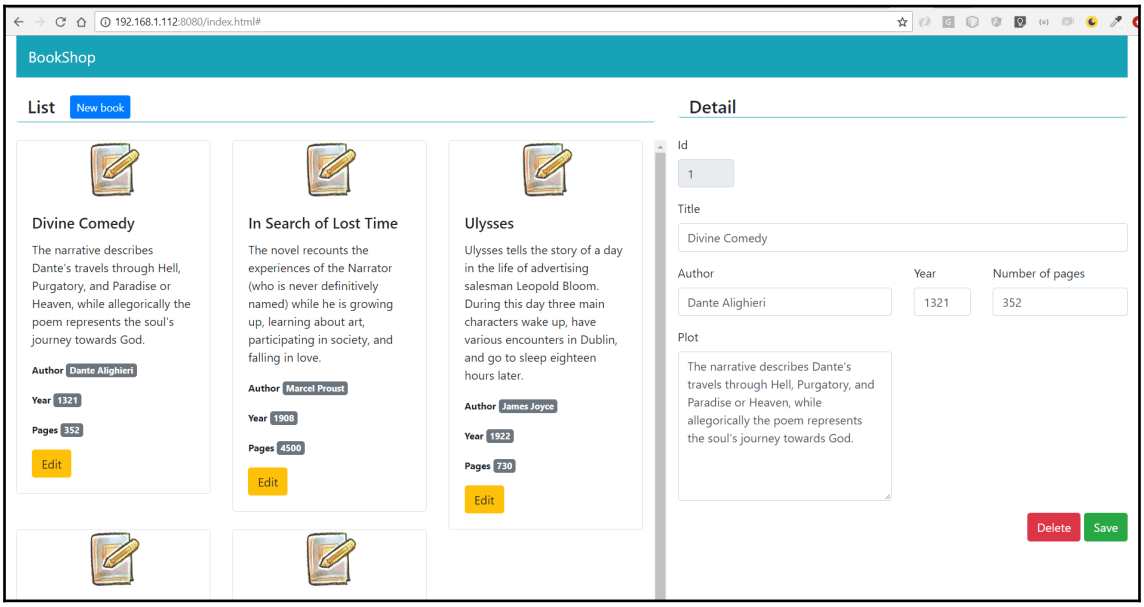

<1> cmd
WELCOME TO THE BEST TCPSERVER EVER
Hello Linux
RECEIVED: hello linux
xunil olleh
quit
RECEIVED: quit
Connection to host lost.

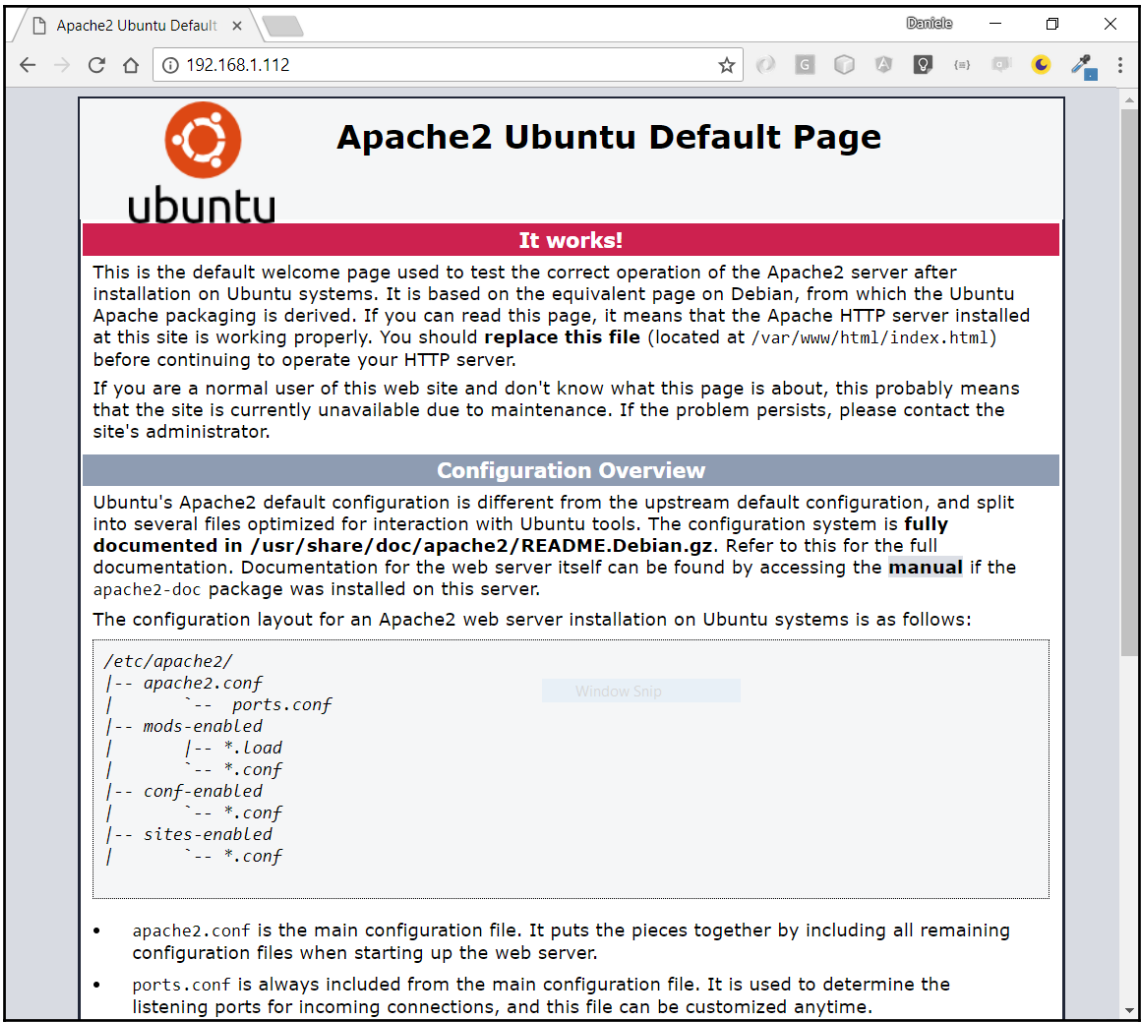

spinettaro@spinettaro-VirtualBox: ~/PAServer/scratch-dir/d.spinetti-ubuntudev/tcpserver_...
File Edit View Search Terminal Help
server_daemon$ sudo systemctl start tcpserver_daemon.service
spinettaro@spinettaro-VirtualBox:~/PAServer/scratch-dir/d.spinetti-ubuntudev/tcp
server_daemon$ sudo systemctl status tcpserver_daemon.service
tcpserver_daemon.service - Example of simple TCPIP server daemon
Loaded: loaded (/etc/systemd/system/tcpserver_daemon.service; disabled; vendo
Active: active (running) since Tue 2018-05-29 22:37:41 CEST; 6s ago
Main PID: 3429 (tcpserver_daemo)
Tasks: 3 (limit: 2322)
CGroup: /system.slice/tcpserver_daemon.service
└─3429 /home/spinettaro/PAServer/scratch-dir/d.spinetti-ubuntudev/tcp
mag 29 22:37:41 spinettaro-VirtualBox systemd[1]: Started Example of simple TCPI
spinettaro@spinettaro-VirtualBox:~/PAServer/scratch-dir/d.spinetti-ubuntudev/tcp
server_daemon$ sudo systemctl stop tcpserver_daemon.service
spinettaro@spinettaro-VirtualBox:~/PAServer/scratch-dir/d.spinetti-ubuntudev/tcp
server_daemon$ sudo systemctl status tcpserver_daemon.service
tcpserver_daemon.service - Example of simple TCPIP server daemon
Loaded: loaded (/etc/systemd/system/tcpserver_daemon.service; disabled; vendo
Active: inactive (dead)
mag 29 22:30:05 spinettaro-VirtualBox systemd[1]: Started Example of simple TCPI
mag 29 22:32:19 spinettaro-VirtualBox systemd[1]: Stopping Example of simple TCP
mag 29 22:32:19 spinettaro-VirtualBox systemd[1]: Stopped Example of simple TCPI
mag 29 22:37:41 spinettaro-VirtualBox systemd[1]: Started Example of simple TCPI
mag 29 22:37:54 spinettaro-VirtualBox systemd[1]: Stopping Example of simple TCP
mag 29 22:37:54 spinettaro-VirtualBox systemd[1]: Stopped Example of simple TCPI
spinettaro@spinettaro-VirtualBox:~/PAServer/scratch-dir/d.spinetti-ubuntudev/tcp
server_daemon$


spinettaro@spinettaro-VirtualBox: ~/PAServer/scratch-dir/d.spinetti-ubuntudev/BookMana...
File Edit View Search Terminal Help
spinettaro@spinettaro-VirtualBox:~/PAServer/scratch-dir/d.spinetti-ubuntudev/Boo
kManager$ ./BookManager
Enter a Command:
- "start" to start the server
- "stop" to stop the server
- "set port" to change the default port
- "status" for Server status
- "help" to show commands
- "exit" to close the application
->start
- Starting HTTP Server on port 8080
->

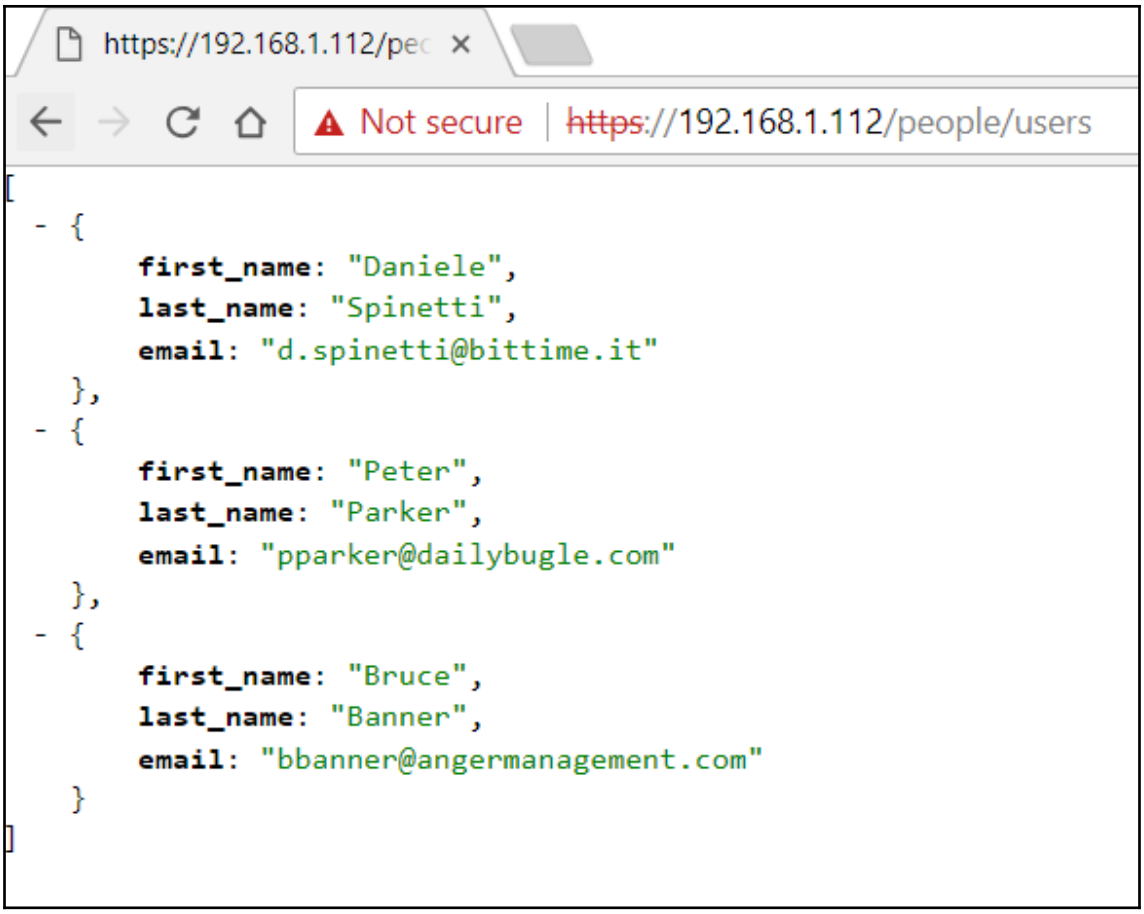
192.168.1.112:8080/books
[
- {
id: 1,
title: "Divine Comedy",
author: "Dante Alighieri",
number_of_pages: 352,
year: 1321,
plot: ""
},
- {
id: 2,
title: "In Search of Lost Time",
author: "Marcel Proust",
number_of_pages: 4500,
year: 1908,
plot: ""
},
- {
id: 3,
title: "Ulysses",
author: "James Joyce",
number_of_pages: 730,
year: 1922,
plot: ""
},
- {
id: 4,
title: "The Great Gatsby",
author: "F. Scott Fitzgerald",
number_of_pages: 240,
year: 1925,
plot: ""
},
- {
id: 5,
title: "The Brothers Karamazov",
author: " Fyodor Dostoevsky",
number_of_pages: 1033,
year: 1880,
plot: ""
}
]


spinettaro@spinettaro-VirtualBox: ~/PAServer/scratch-dir/d.spinetti-ubuntudev/BookMana...
File Edit View Search Terminal Help
spinettaro@spinettaro-VirtualBox:~/PAServer/scratch-dir/d.spinetti-ubuntudev/BookManager$ ./BookManager
Enter a Command:
- "start" to start the server
- "stop" to stop the server
- "set port" to change the default port
- "status" for Server status
- "help" to show commands
- "exit" to close the application
->start
- Starting HTTP Server on port 8080
->

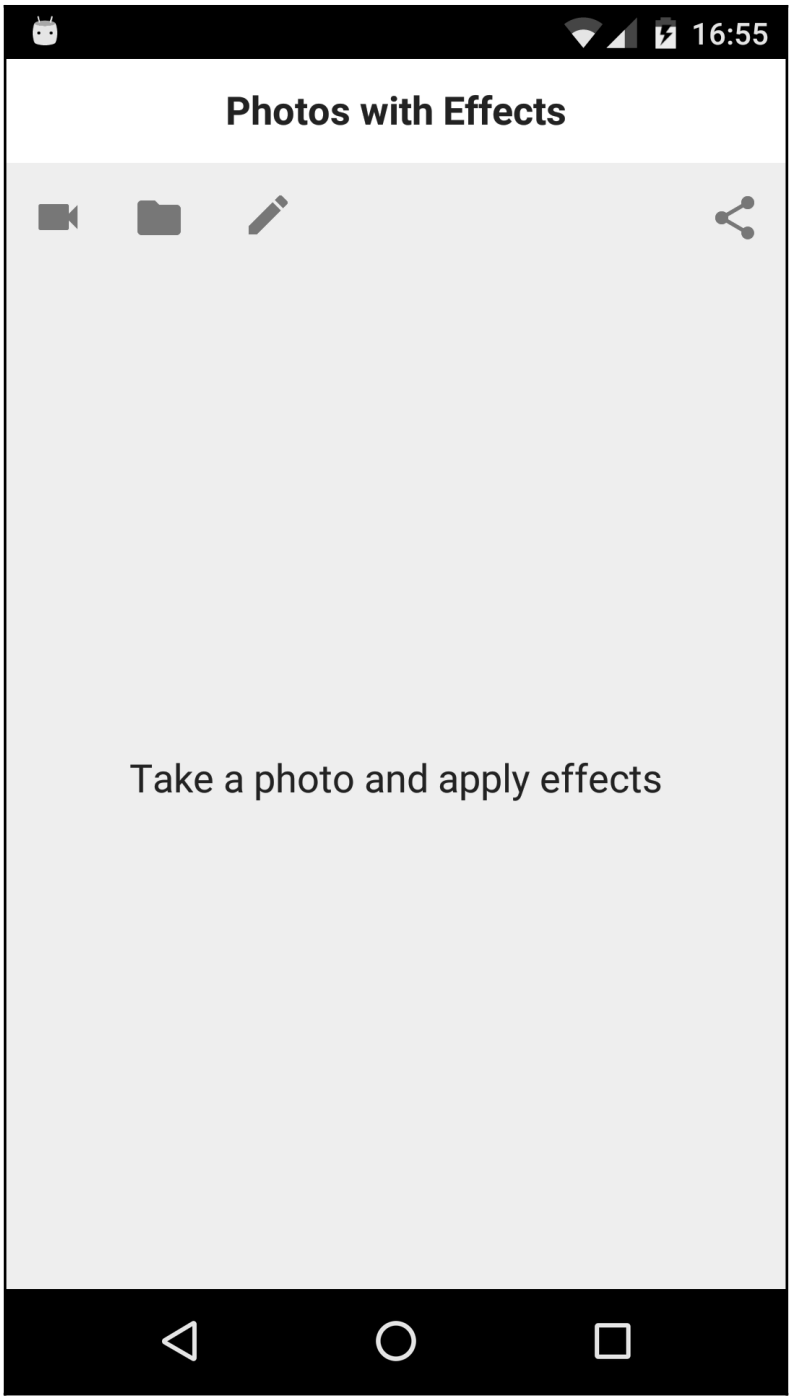

192.168.1.112:8080/index.html#
BookShop
List
New book
Divine Comedy
The narrative describes Dante's travels through Hell, Purgatory, and Paradise or Heaven, while allegorically the poem represents the soul's journey towards God.
Author Dante Alighieri
Year 1321
Pages 352
Edit
In Search of Lost Time
The novel recounts the experiences of the Narrator (who is never definitively named) while he is growing up, learning about art, participating in society, and falling in love.
Author Marcel Proust
Year 1908
Pages 4500
Edit
Ulysses
Ulysses tells the story of a day in the life of advertising salesman Leopold Bloom. During this day three main characters wake up, have various encounters in Dublin, and go to sleep eighteen hours later.
Author James Joyce
Year 1922
Pages 730
Edit
Detail
Id
1
Title
Divine Comedy
Author
Dante Alighieri
Year
1321
Number of pages
352
Plot
The narrative describes Dante's travels through Hell, Purgatory, and Paradise or Heaven, while allegorically the poem represents the soul's journey towards God.
Delete
Save

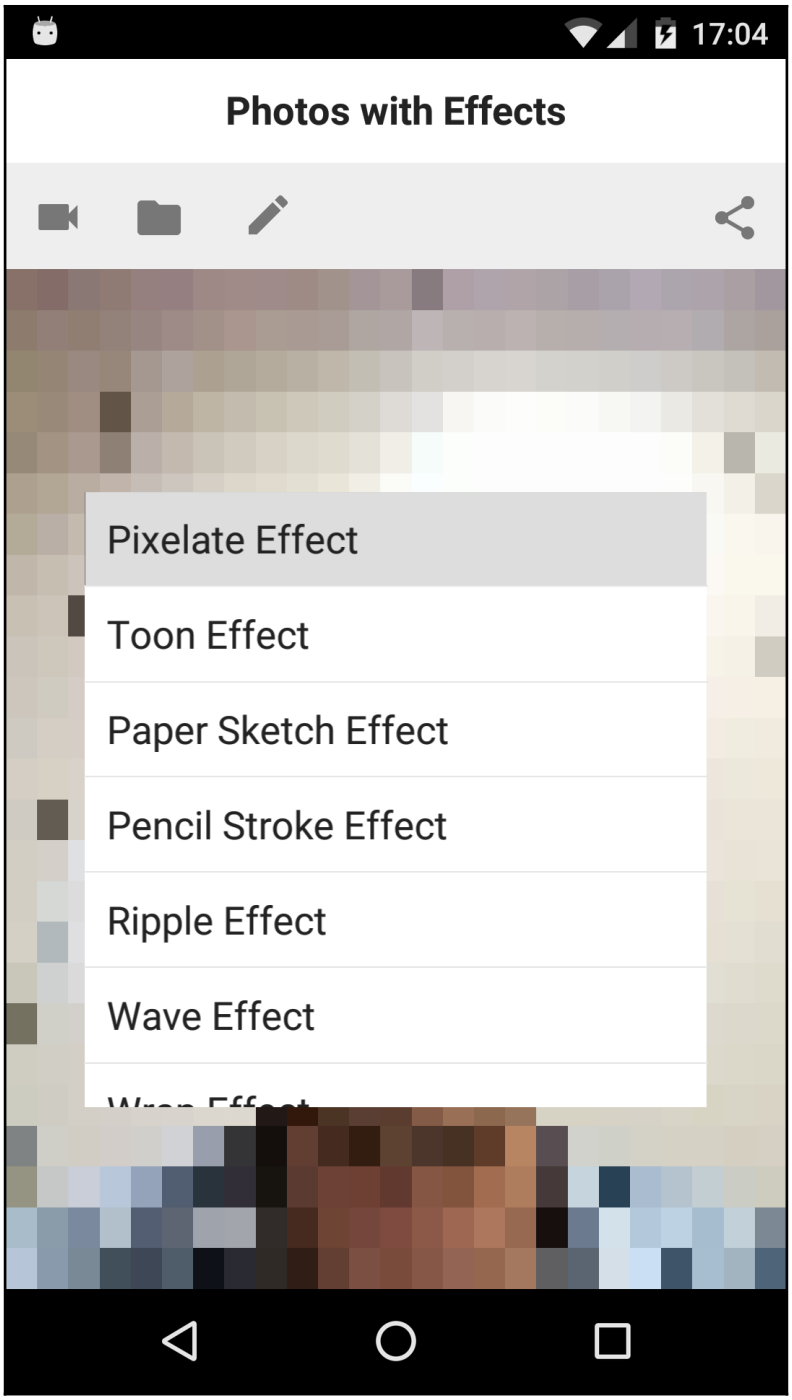

Apache2 Ubuntu Default
Daniele
192.168.1.112
Apache2 Ubuntu Default Page
ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
|       `--  ports.conf
|-- mods-enabled
|       |-- *.load
|       `-- *.conf
|-- conf-enabled
|       `-- *.conf
|-- sites-enabled
|       `-- *.conf
Window Snip
apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.

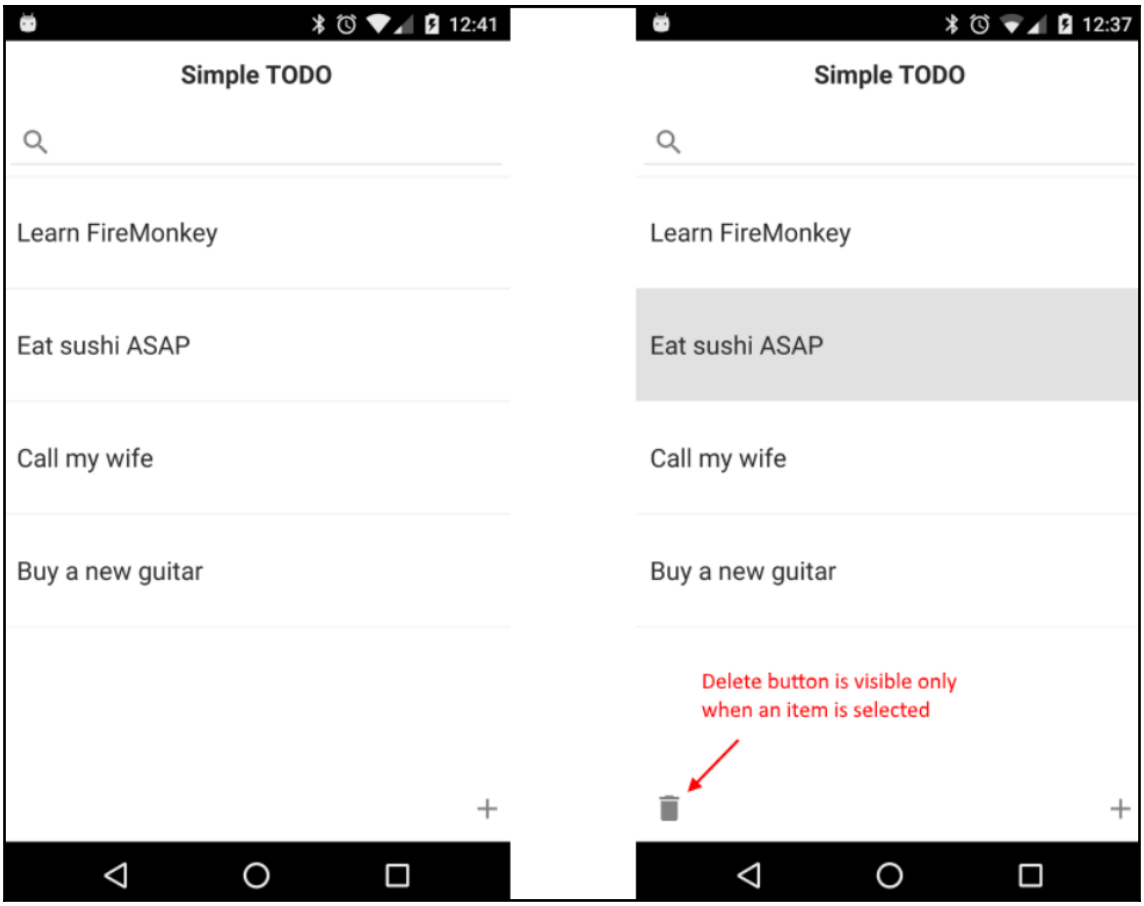
192.168.1.112/people/use
192.168.1.112/people/users
[
- {
first_name: "Daniele",
last_name: "Spinetti",
email: "d.spinetti@bittime.it"
},
- {
first_name: "Peter",
last_name: "Parker",
email: "pparker@dailybugle.com"
},
- {
first_name: "Bruce",
last_name: "Banner",
email: "bbanner@angermanagement.com"
}
]

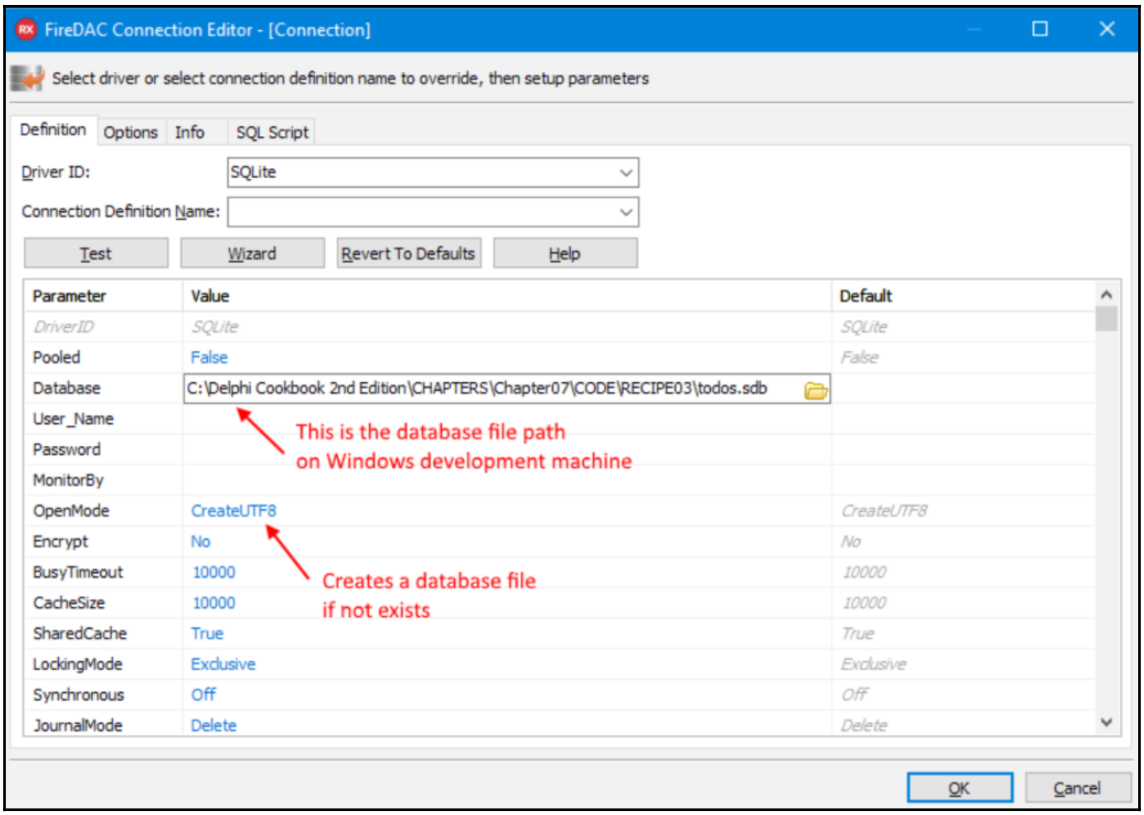

https://192.168.1.112/pe
Not secure
https://192.168.1.112/people/users
[
- {
"first_name": "Daniele",
"last_name": "Spinetti",
"email": "d.spinetti@bittime.it"
},
- {
"first_name": "Peter",
"last_name": "Parker",
"email": "pparker@dailybugle.com"
},
- {
"first_name": "Bruce",
"last_name": "Banner",
"email": "bbanner@angermanagement.com"
}
]

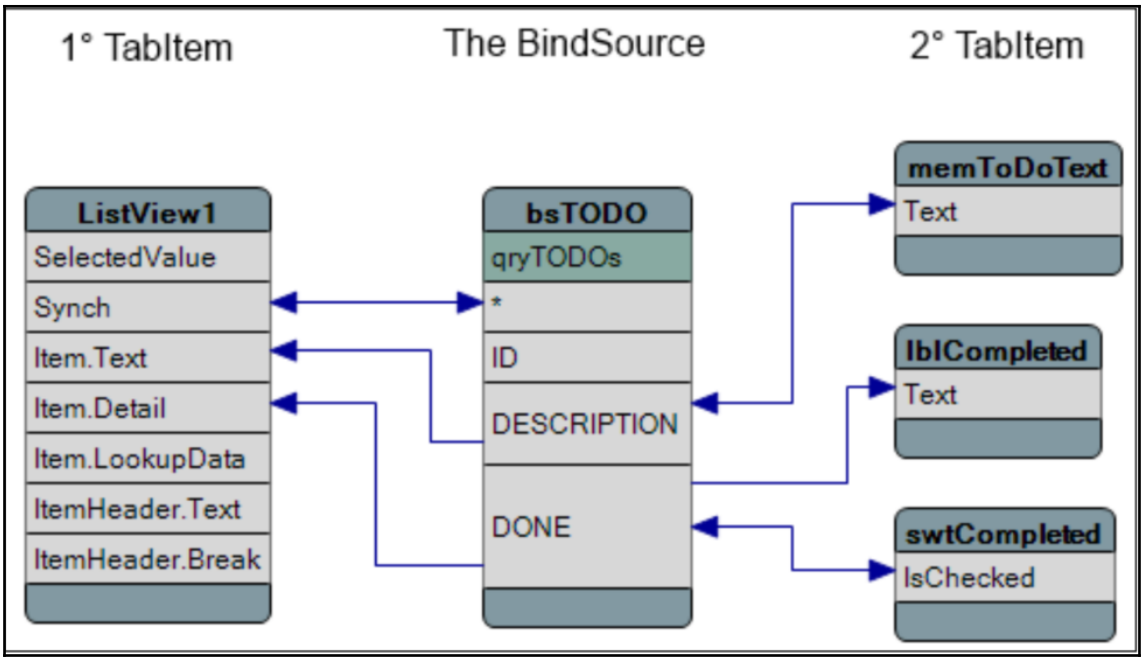
# Chapter 8: Riding the Mobile Revolution with FireMonkey

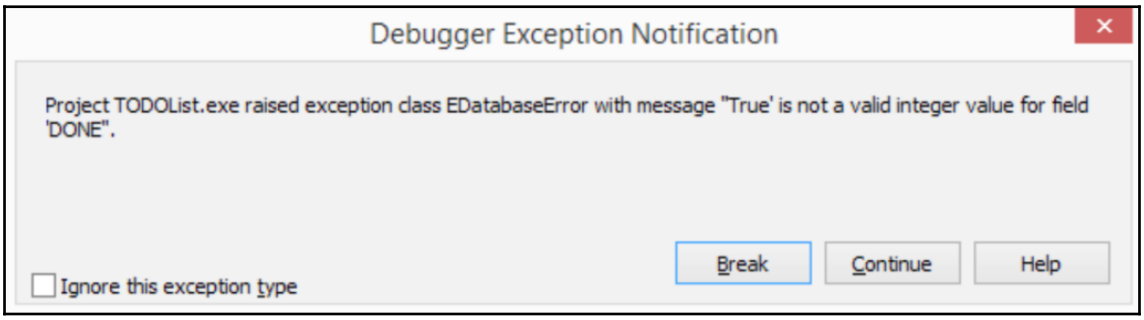

16:55
Photos with Effects
Take a photo and apply effects


17:04
Photos with Effects
Pixelate Effect
Toon Effect
Paper Sketch Effect
Pencil Stroke Effect
Ripple Effect
Wave Effect

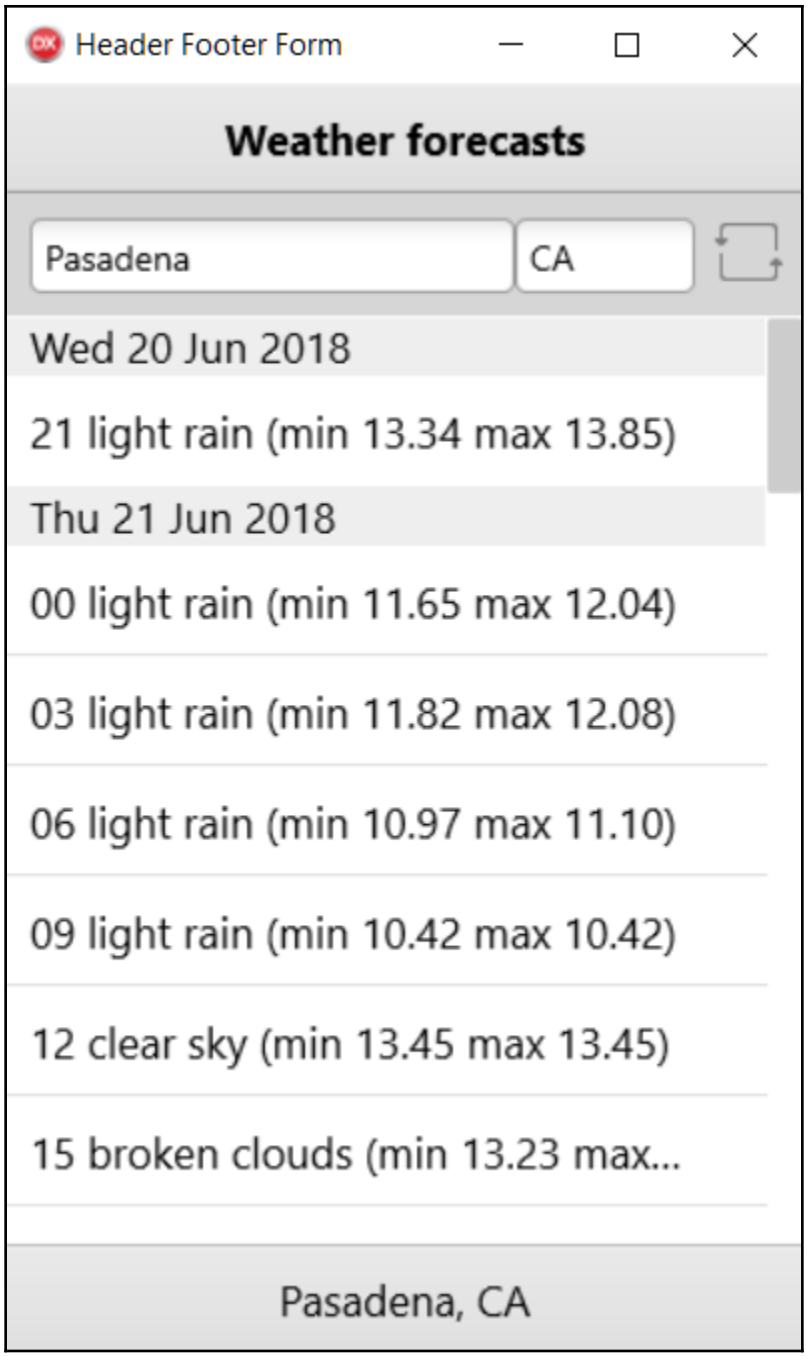

12:41
Simple TODO
Learn FireMonkey
Eat sushi ASAP
Call my wife
Buy a new guitar
12:37
Simple TODO
Learn FireMonkey
Eat sushi ASAP
Call my wife
Buy a new guitar
Delete button is visible only
when an item is selected

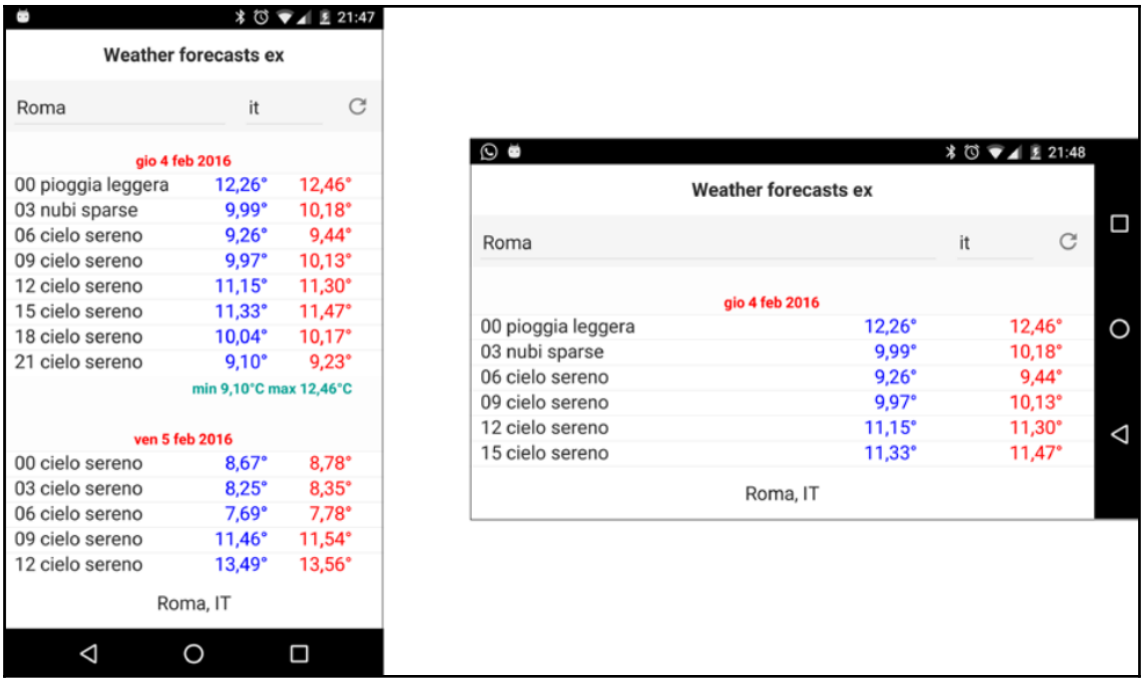

FireDAC Connection Editor - [Connection]
Select driver or select connection definition name to override, then setup parameters
Definition
Options
Info
SQL Script
Driver ID:
SQLite
Connection Definition Name:
Test
Wizard
Revert To Defaults
Help
Parameter
Value
Default
DriverID
SQLite
SQLite
Pooled
False
False
Database
C:\Delphi Cookbook 2nd Edition\CHAPTERS\Chapter07\CODE\RECIPE03\todos.sdb
User_Name
Password
MonitorBy
OpenMode
CreateUTF8
CreateUTF8
Encrypt
No
No
BusyTimeout
10000
10000
CacheSize
10000
10000
SharedCache
True
True
LockingMode
Exclusive
Exclusive
Synchronous
Off
Off
JournalMode
Delete
Delete
This is the database file path
on Windows development machine
Creates a database file
if not exists
OK
Cancel

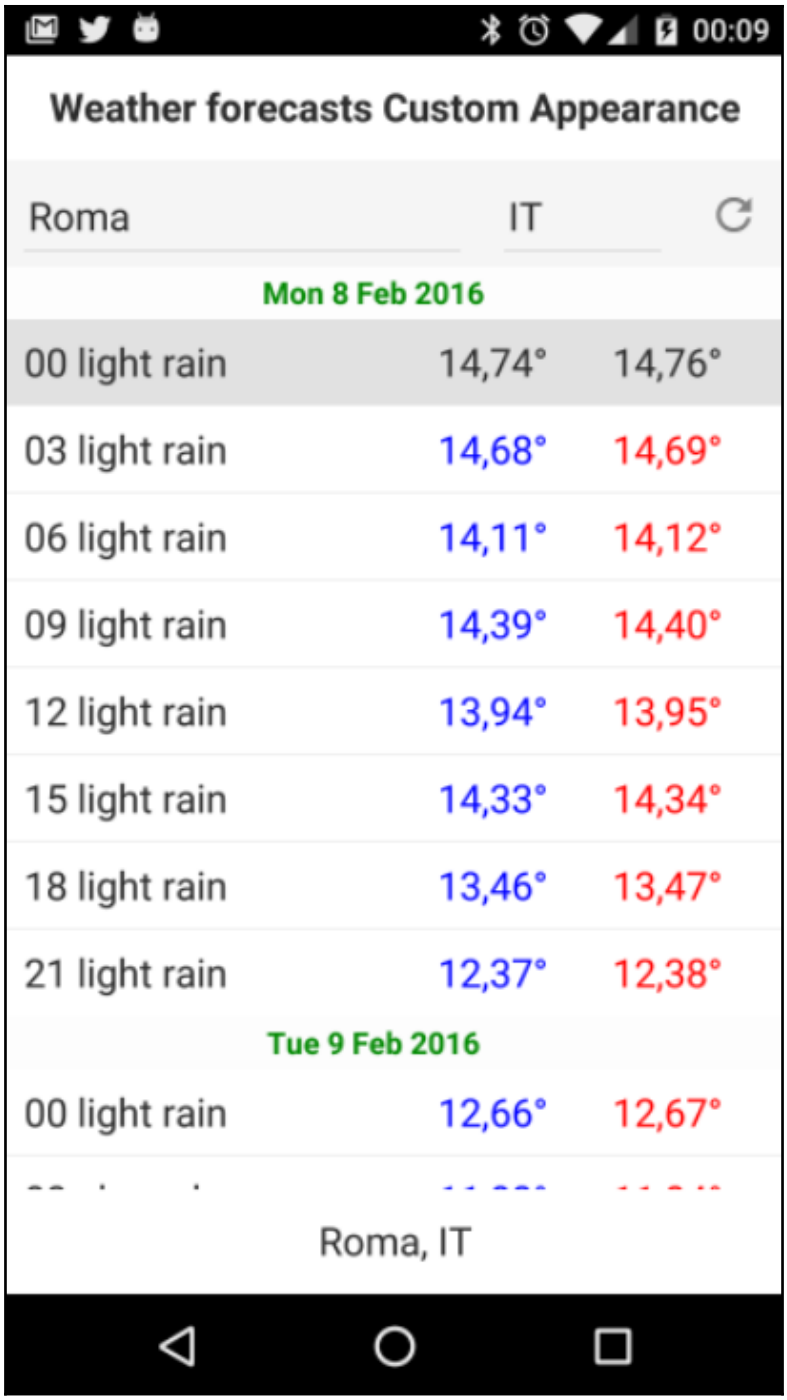

1° TabItem
The BindSource
2° TabItem
ListView1
SelectedValue
Synch
Item.Text
Item.Detail
Item.LookupData
ItemHeader.Text
ItemHeader.Break
bsTODO
qryTODOs
*
ID
DESCRIPTION
DONE
memToDoText
Text
lblCompleted
Text
swtCompleted
IsChecked

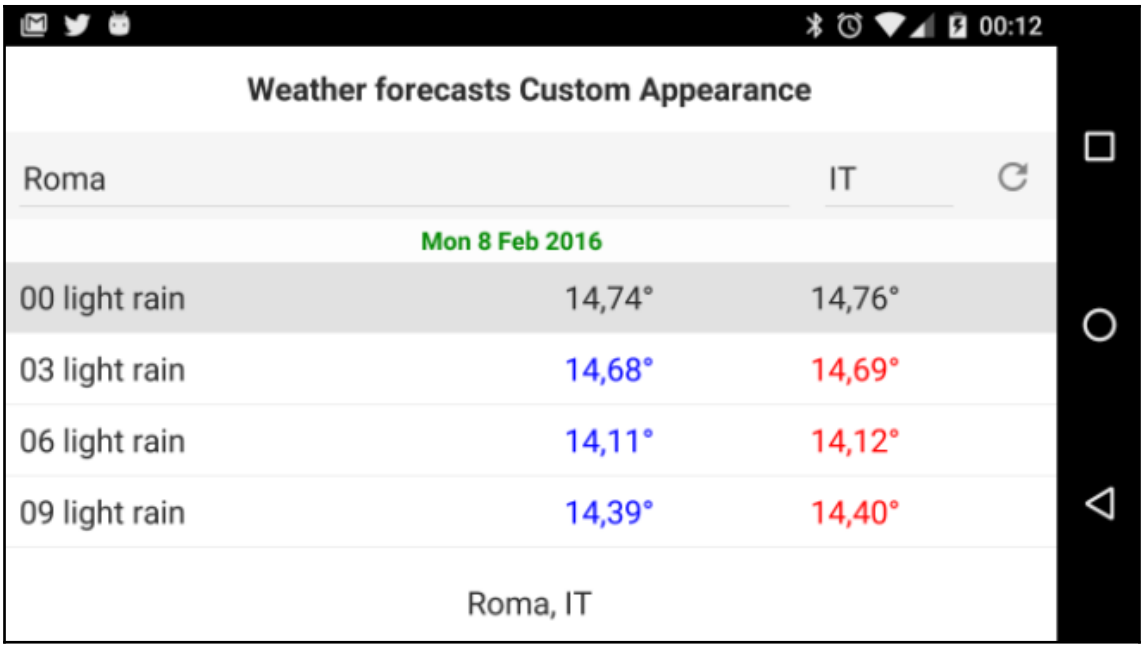

Debugger Exception Notification
Project TODOList.exe raised exception class EDatabaseError with message 'True' is not a valid integer value for field 'DONE'.
Break
Continue
Help
Ignore this exception type

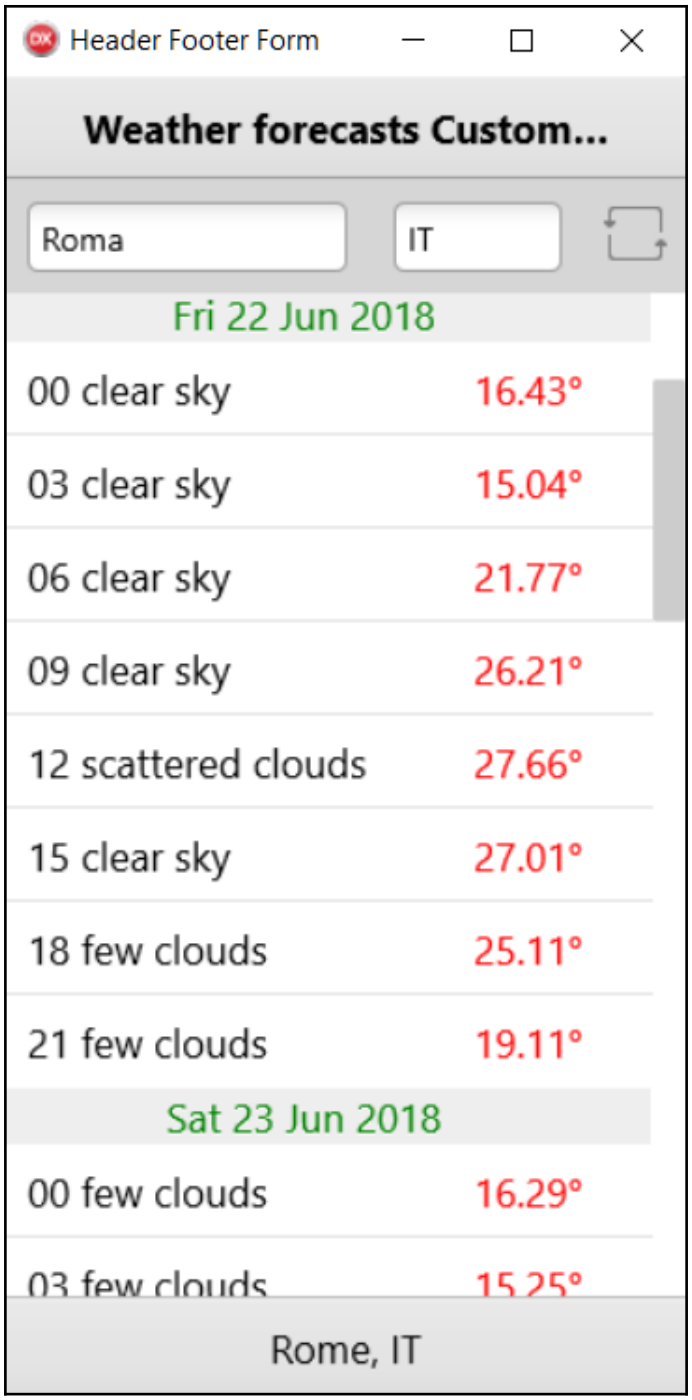
Weather forecasts
Roma
IT
RESTRequest1
RESTClient1
...

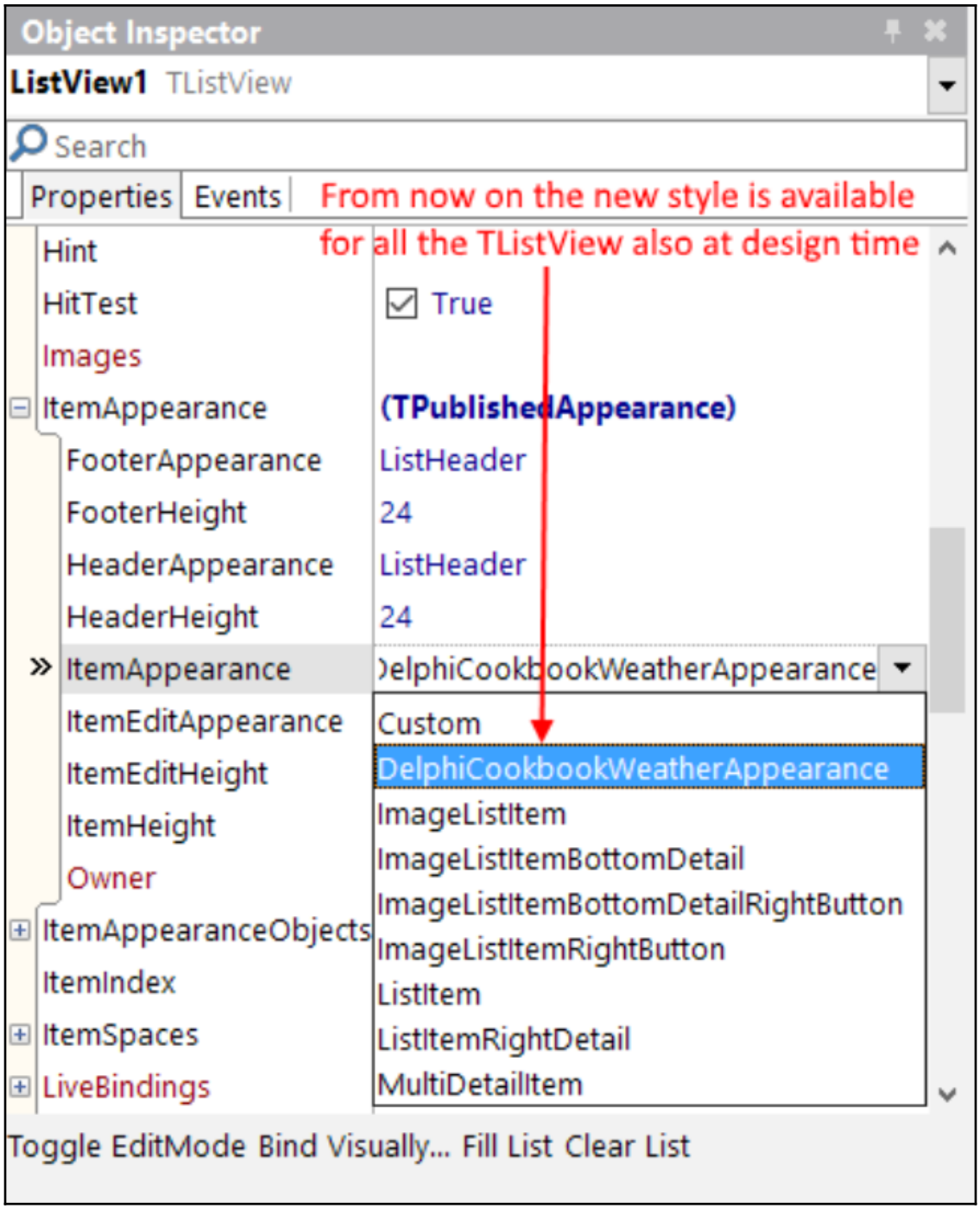

Header Footer Form
Weather forecasts
Pasadena
CA
Wed 20 Jun 2018
21 light rain (min 13.34 max 13.85)
Thu 21 Jun 2018
00 light rain (min 11.65 max 12.04)
03 light rain (min 11.82 max 12.08)
06 light rain (min 10.97 max 11.10)
09 light rain (min 10.42 max 10.42)
12 clear sky (min 13.45 max 13.45)
15 broken clouds (min 13.23 max...
Pasadena, CA

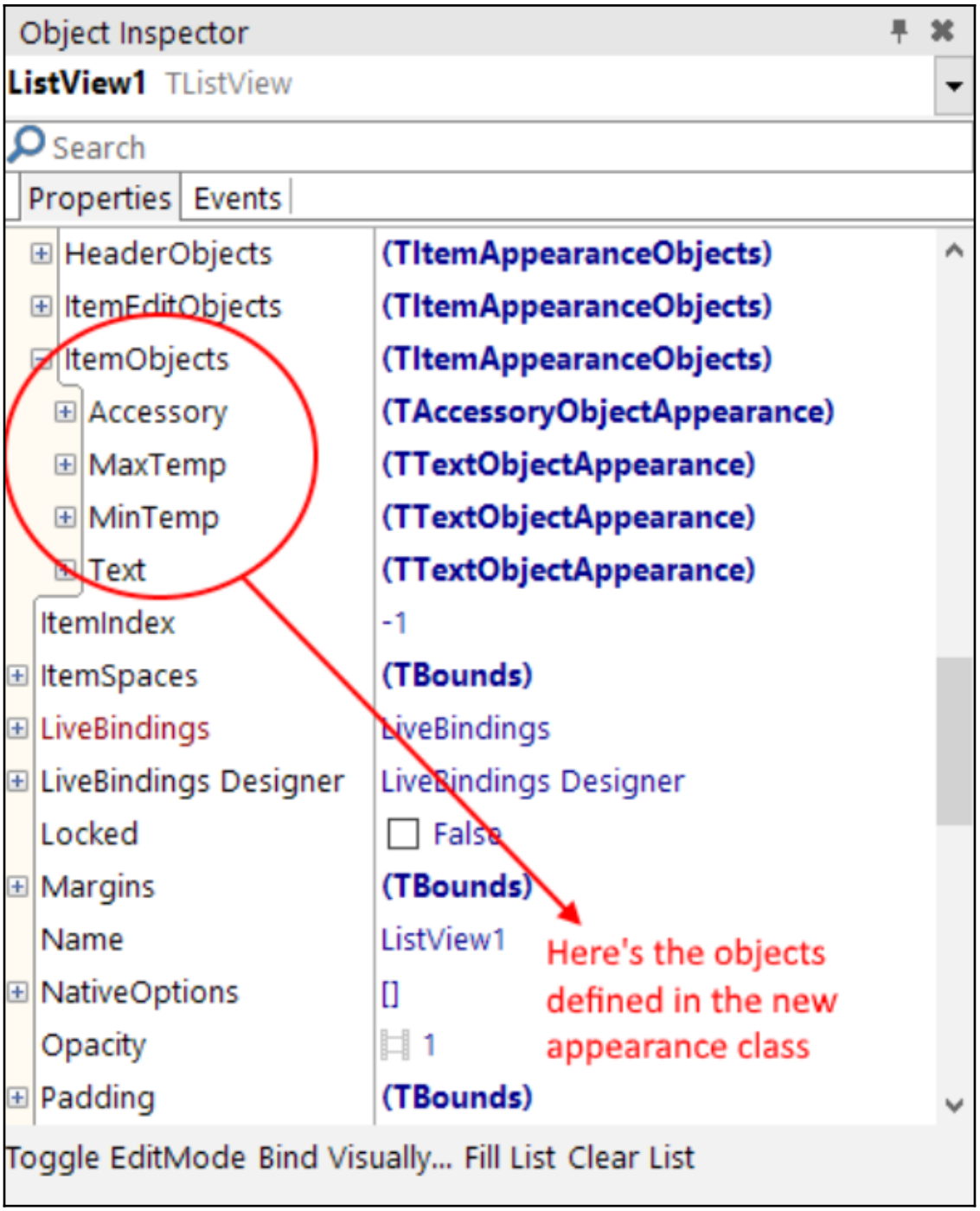

21:47
Weather forecasts ex
Roma
it
gio 4 feb 2016
00 pioggia leggera 12,26° 12,46°
03 nubi sparse 9,99° 10,18°
06 cielo sereno 9,26° 9,44°
09 cielo sereno 9,97° 10,13°
12 cielo sereno 11,15° 11,30°
15 cielo sereno 11,33° 11,47°
18 cielo sereno 10,04° 10,17°
21 cielo sereno 9,10° 9,23°
min 9,10°C max 12,46°C
ven 5 feb 2016
00 cielo sereno 8,67° 8,78°
03 cielo sereno 8,25° 8,35°
06 cielo sereno 7,69° 7,78°
09 cielo sereno 11,46° 11,54°
12 cielo sereno 13,49° 13,56°
Roma, IT
21:48
Weather forecasts ex
Roma
it
gio 4 feb 2016
00 pioggia leggera 12,26° 12,46°
03 nubi sparse 9,99° 10,18°
06 cielo sereno 9,26° 9,44°
09 cielo sereno 9,97° 10,13°
12 cielo sereno 11,15° 11,30°
15 cielo sereno 11,33° 11,47°
Roma, IT

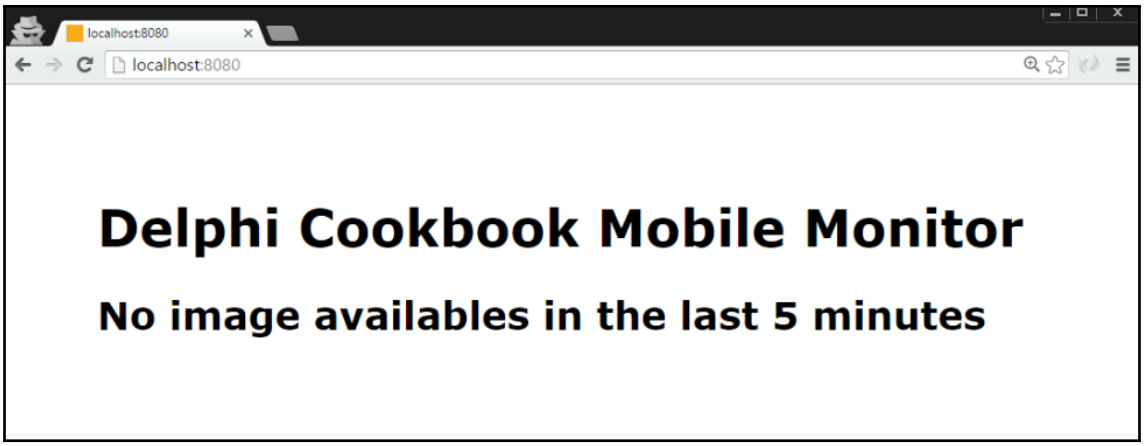

00:09
Weather forecasts Custom Appearance
Roma
IT
Mon 8 Feb 2016
00 light rain 14,74° 14,76°
03 light rain 14,68° 14,69°
06 light rain 14,11° 14,12°
09 light rain 14,39° 14,40°
12 light rain 13,94° 13,95°
15 light rain 14,33° 14,34°
18 light rain 13,46° 13,47°
21 light rain 12,37° 12,38°
Tue 9 Feb 2016
00 light rain 12,66° 12,67°
Roma, IT

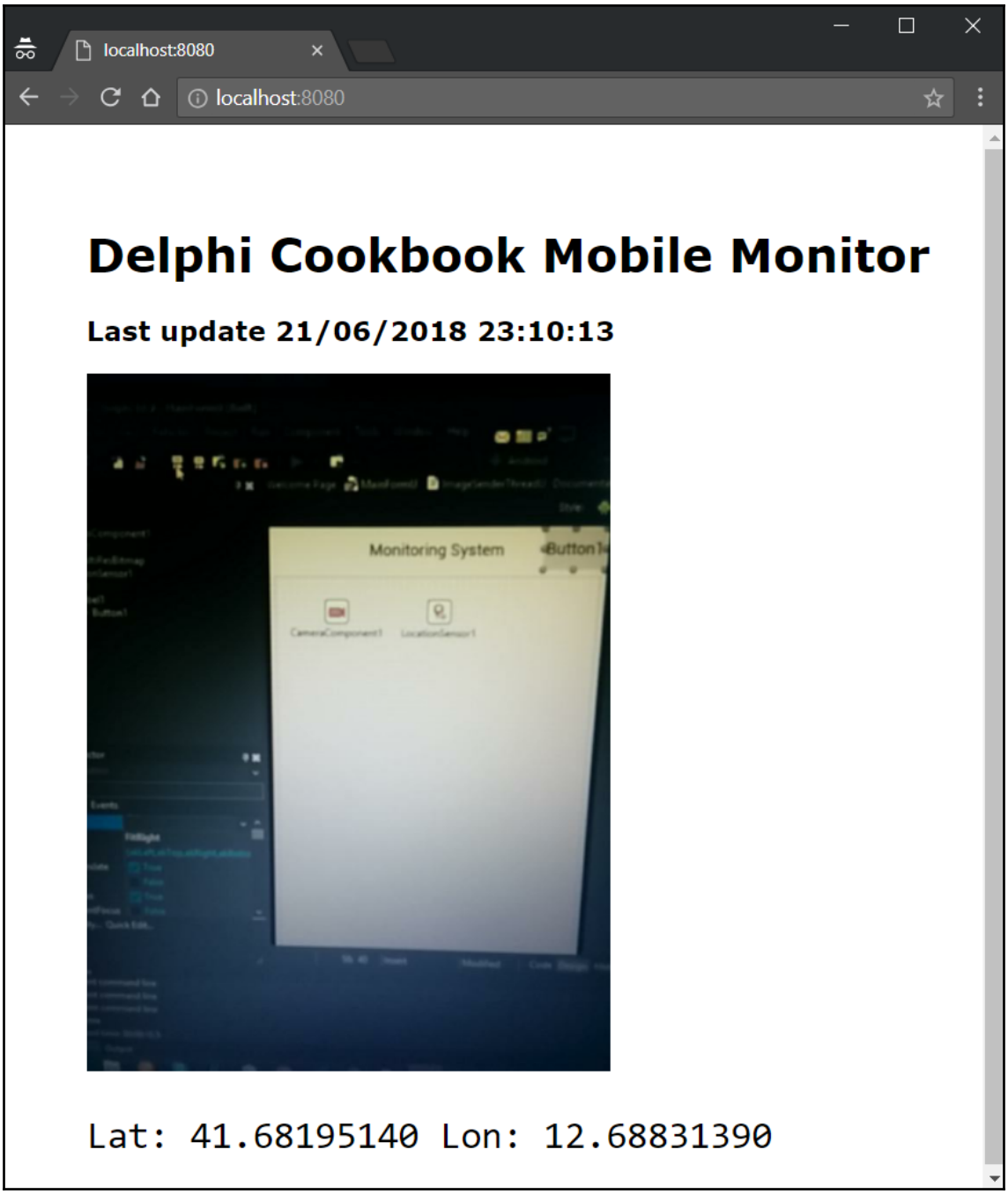

00:12
Weather forecasts Custom Appearance
Roma
IT
Mon 8 Feb 2016
00 light rain
14,74°
14,76°
03 light rain
14,68°
14,69°
06 light rain
14,11°
14,12°
09 light rain
14,39°
14,40°
Roma, IT

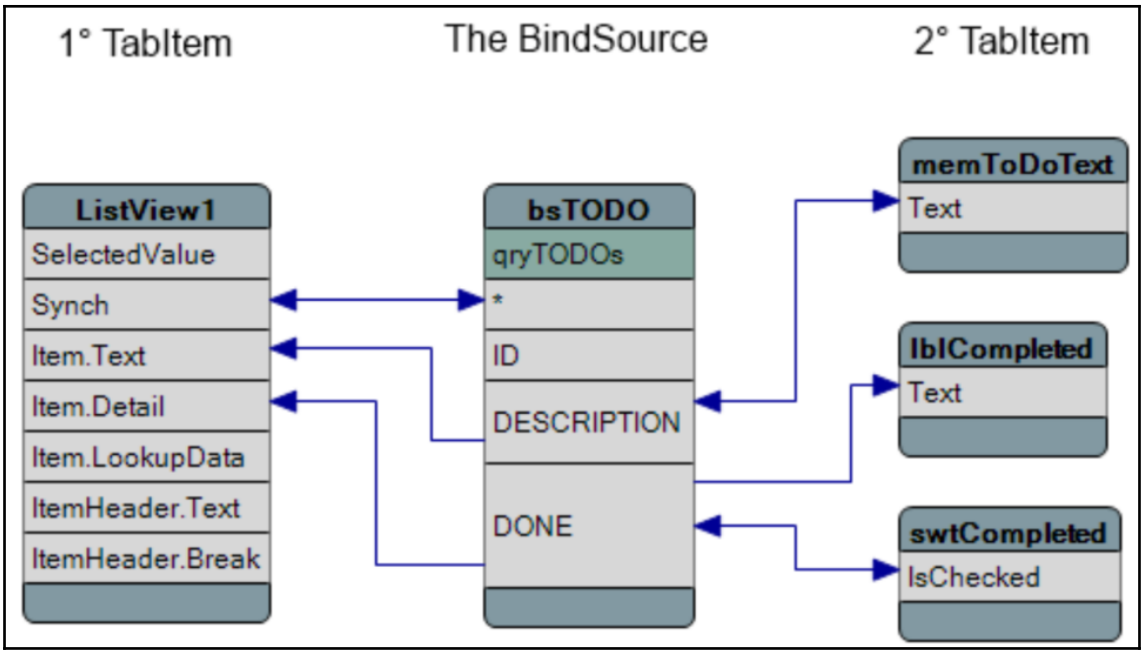

Header Footer Form
Weather forecasts Custom...
Roma
IT
Fri 22 Jun 2018
00 clear sky 16.43°
03 clear sky 15.04°
06 clear sky 21.77°
09 clear sky 26.21°
12 scattered clouds 27.66°
15 clear sky 27.01°
18 few clouds 25.11°
21 few clouds 19.11°
Sat 23 Jun 2018
00 few clouds 16.29°
03 few clouds 15.25°
Rome, IT


Object Inspector
ListView1 TListView
Search
Properties
Events
From now on the new style is available
for all the TListView also at design time
Hint
HitTest
True
Images
ItemAppearance
(TPublishedAppearance)
FooterAppearance
ListHeader
FooterHeight
24
HeaderAppearance
ListHeader
HeaderHeight
24
ItemAppearance
DelphiCookbookWeatherAppearance
ItemEditAppearance
Custom
ItemEditHeight
DelphiCookbookWeatherAppearance
ItemHeight
ImageListItem
Owner
ImageListItemBottomDetail
ImageListItemBottomDetailRightButton
ItemAppearanceObjects
ImageListItemRightButton
ItemIndex
ListItem
ItemSpaces
ListItemRightDetail
LiveBindings
MultiDetailItem
Toggle EditMode Bind Visually... Fill List Clear List

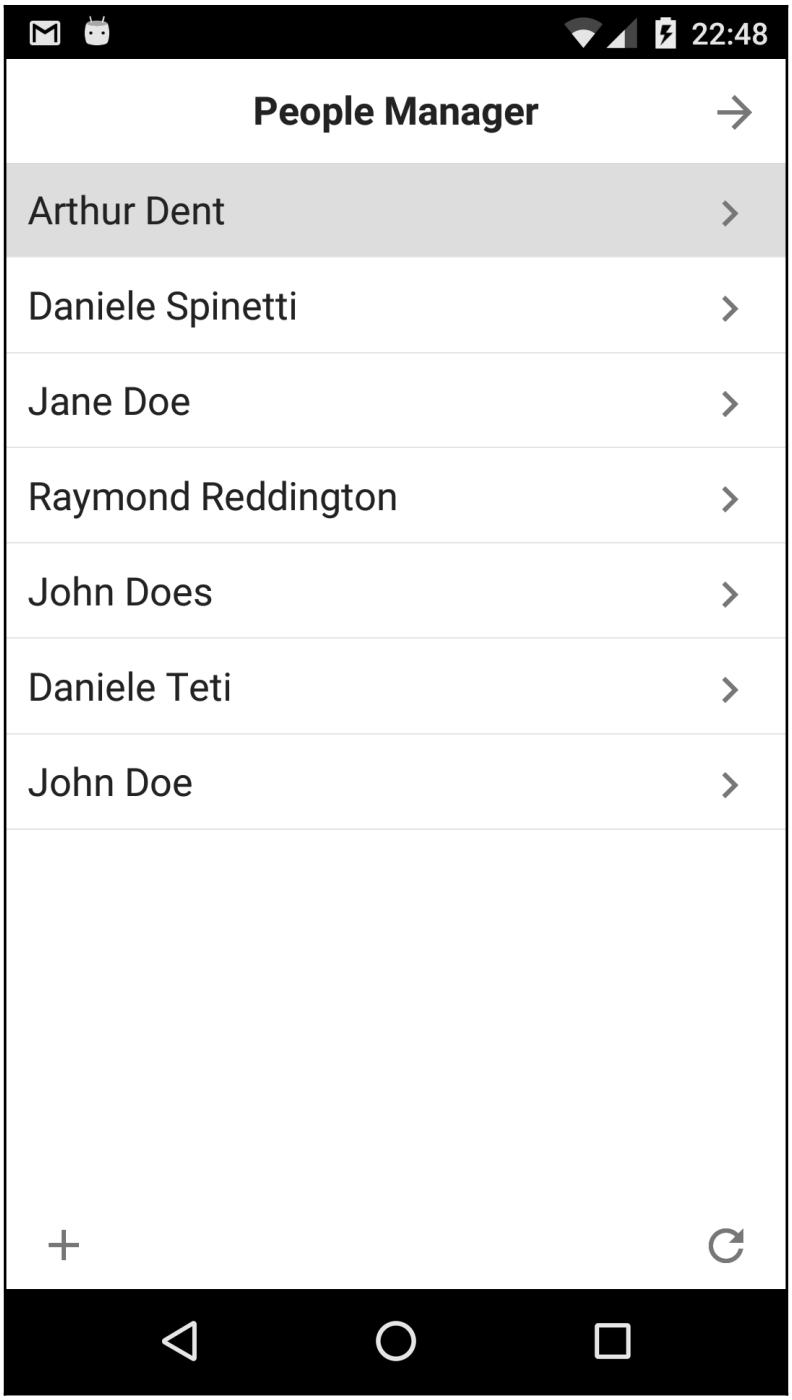

Object Inspector
ListView1 TListView
Search
Properties
Events
HeaderObjects
(TItemAppearanceObjects)
ItemEditObjects
(TItemAppearanceObjects)
ItemObjects
(TItemAppearanceObjects)
Accessory
(TAccessoryObjectAppearance)
MaxTemp
(TTextObjectAppearance)
MinTemp
(TTextObjectAppearance)
Text
(TTextObjectAppearance)
ItemIndex
-1
ItemSpaces
(TBounds)
LiveBindings
LiveBindings
LiveBindings Designer
LiveBindings Designer
Locked
False
Margins
(TBounds)
Name
ListView1
NativeOptions
[]
Opacity
1
Padding
(TBounds)
Here's the objects defined in the new appearance class
Toggle EditMode
Bind Visually...
Fill List
Clear List

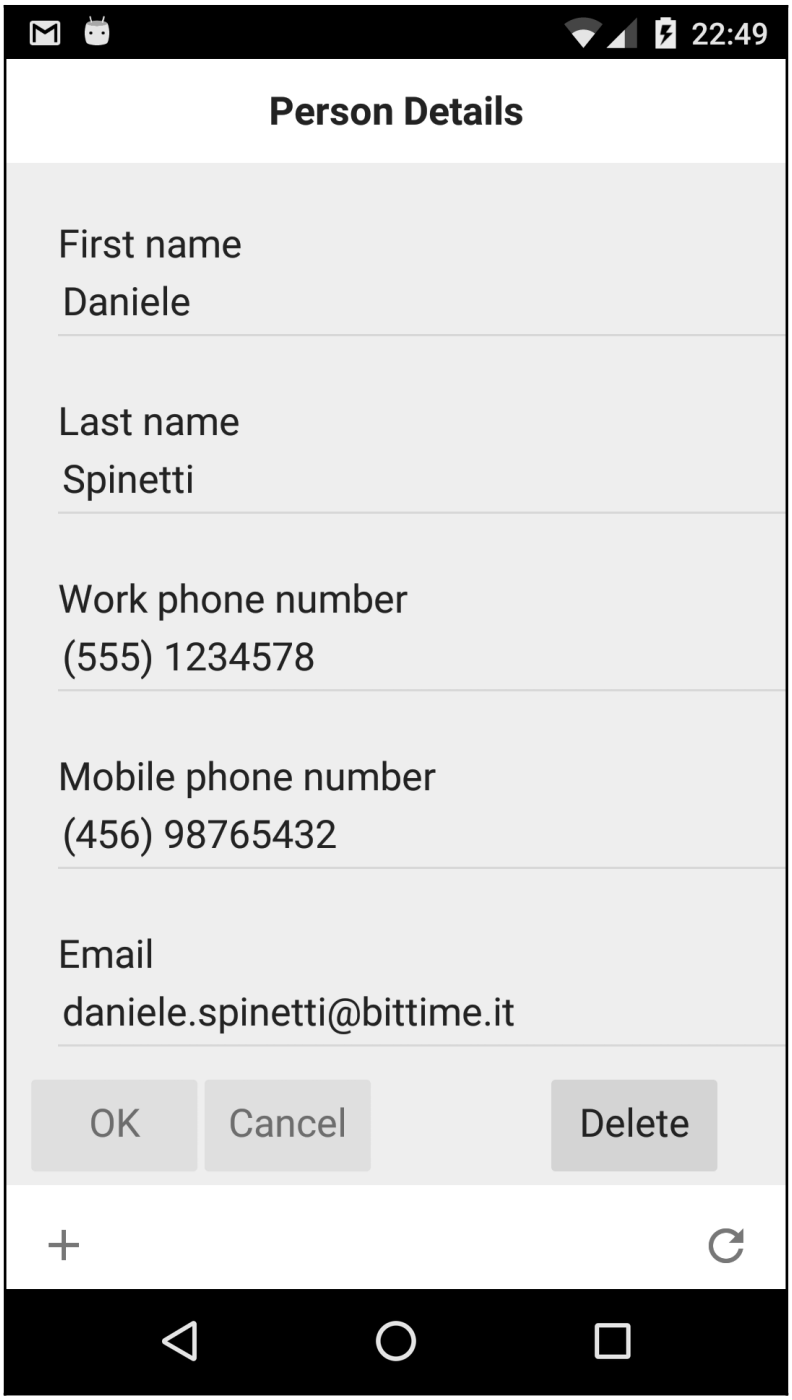

localhost:8080
localhost:8080
Delphi Cookbook Mobile Monitor
No image availables in the last 5 minutes

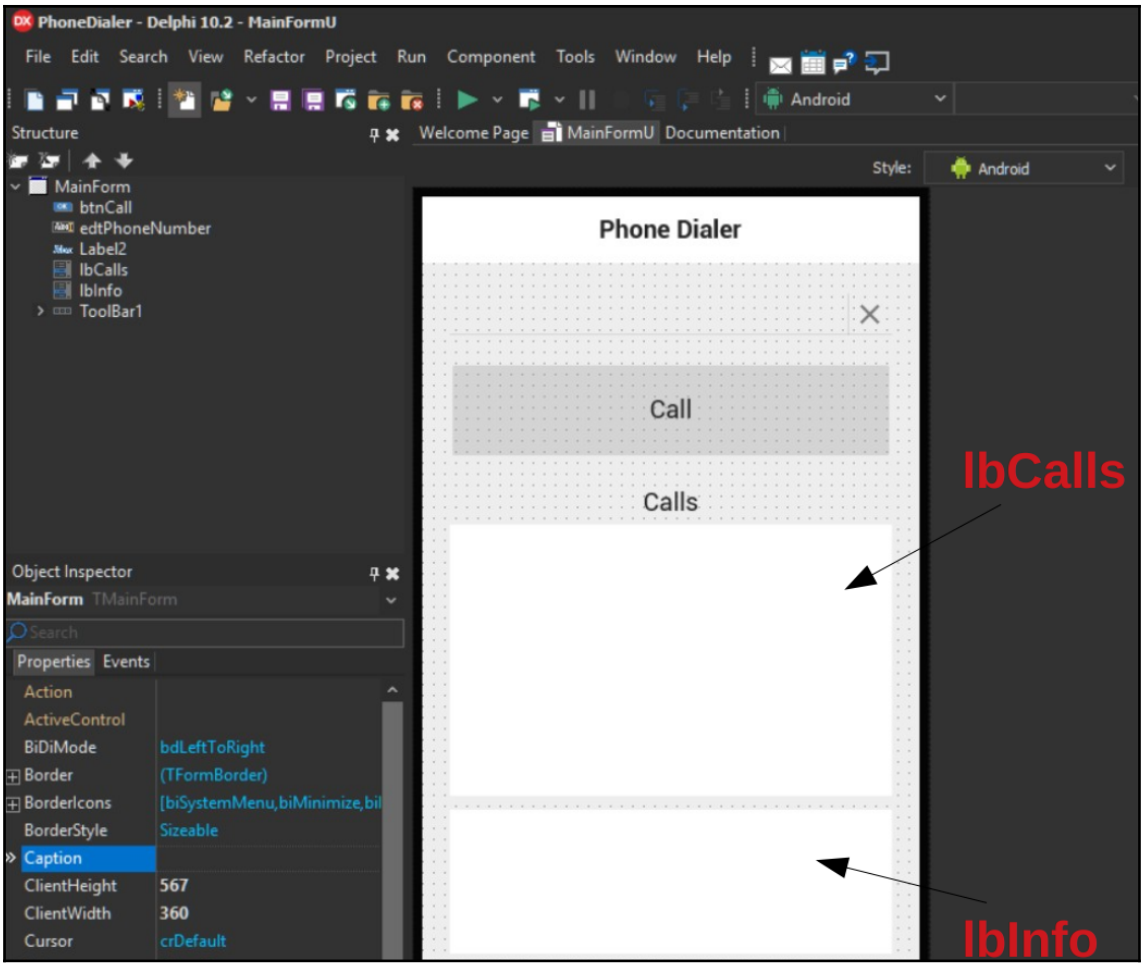

localhost:8080
localhost:8080
Delphi Cookbook Mobile Monitor
Last update 21/06/2018 23:10:13
Monitoring System
Button1
Lat: 41.68195140 Lon: 12.68831390

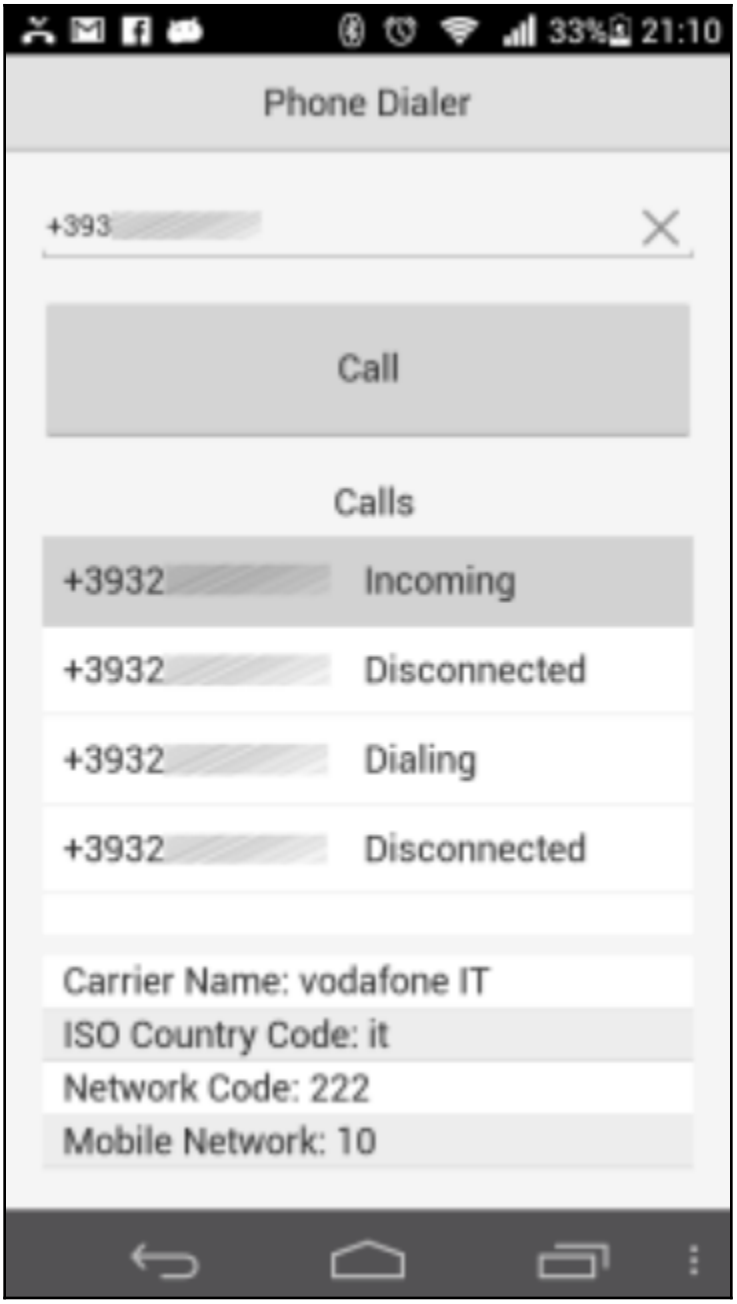

1° TabItem
The BindSource
2° TabItem
ListView1
SelectedValue
Synch
Item.Text
Item.Detail
Item.LookupData
ItemHeader.Text
ItemHeader.Break
bsTODO
qryTODOs
*
ID
DESCRIPTION
DONE
memToDoText
Text
lblCompleted
Text
swtCompleted
IsChecked

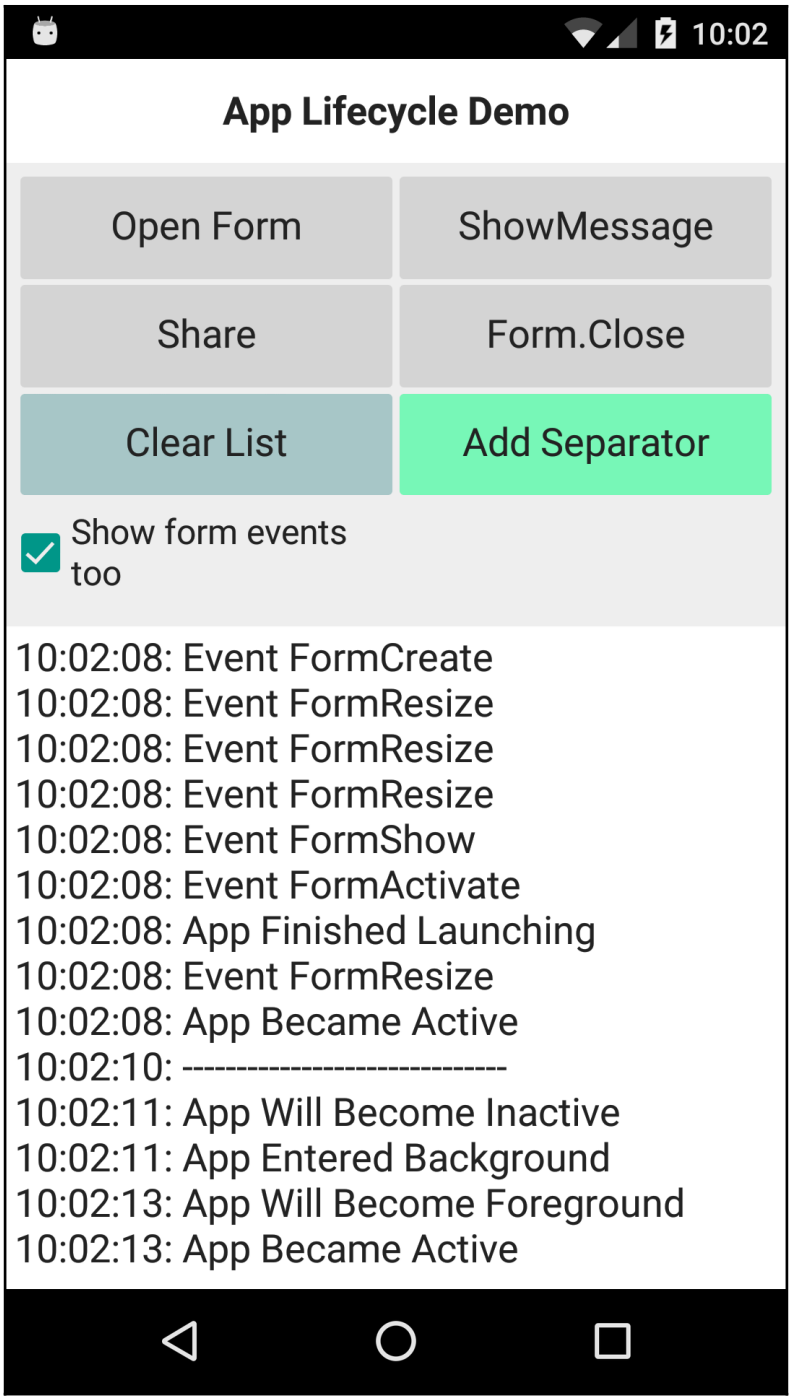
22:40
People Manager
Please wait while retrieving the people list

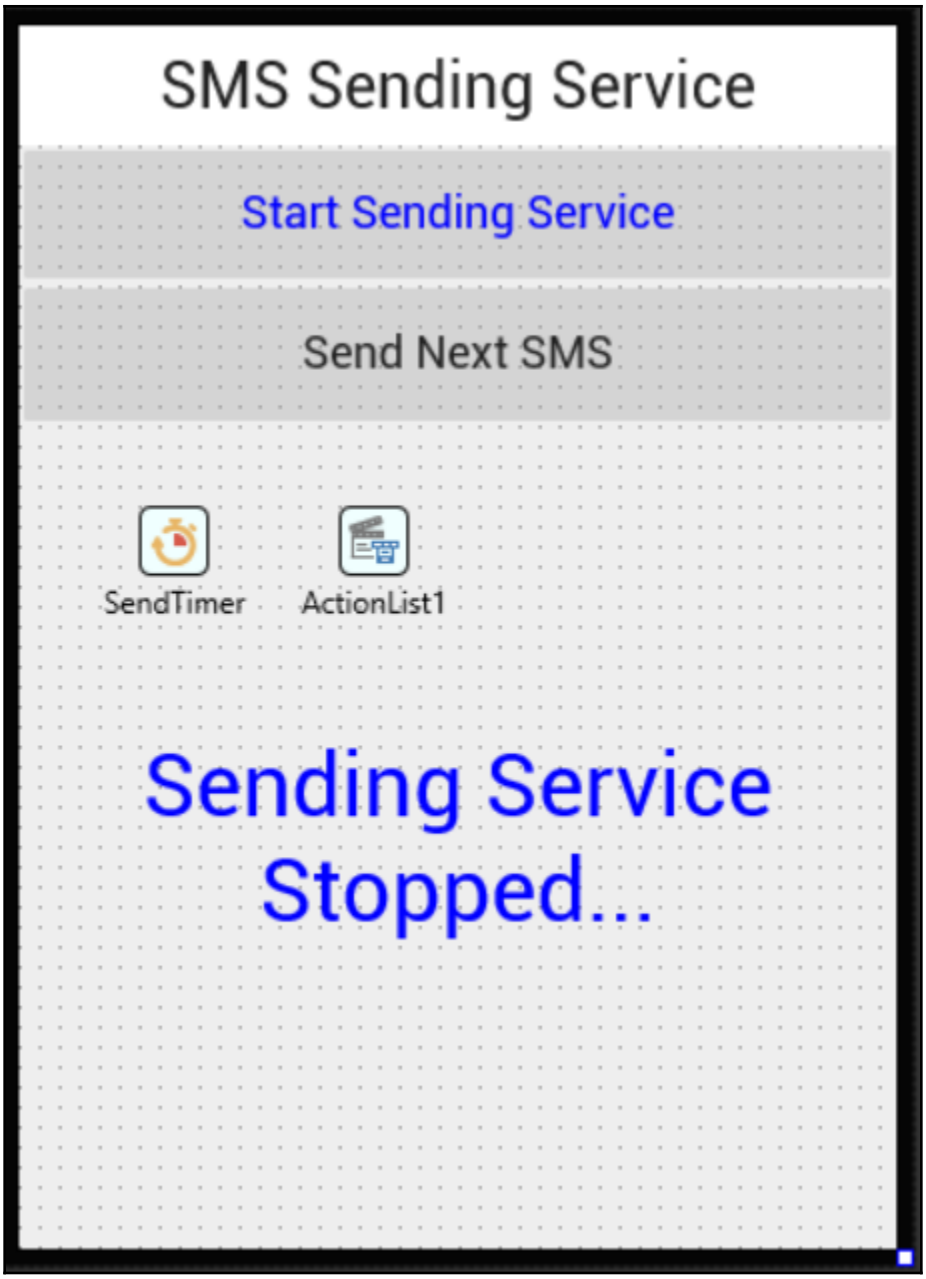

22:48
People Manager
Arthur Dent
Daniele Spinetti
Jane Doe
Raymond Reddington
John Does
Daniele Teti
John Doe


22:49
Person Details
First name
Daniele
Last name
Spinetti
Work phone number
(555) 1234578
Mobile phone number
(456) 98765432
Email
daniele.spinetti@bittime.it
OK
Cancel
Delete

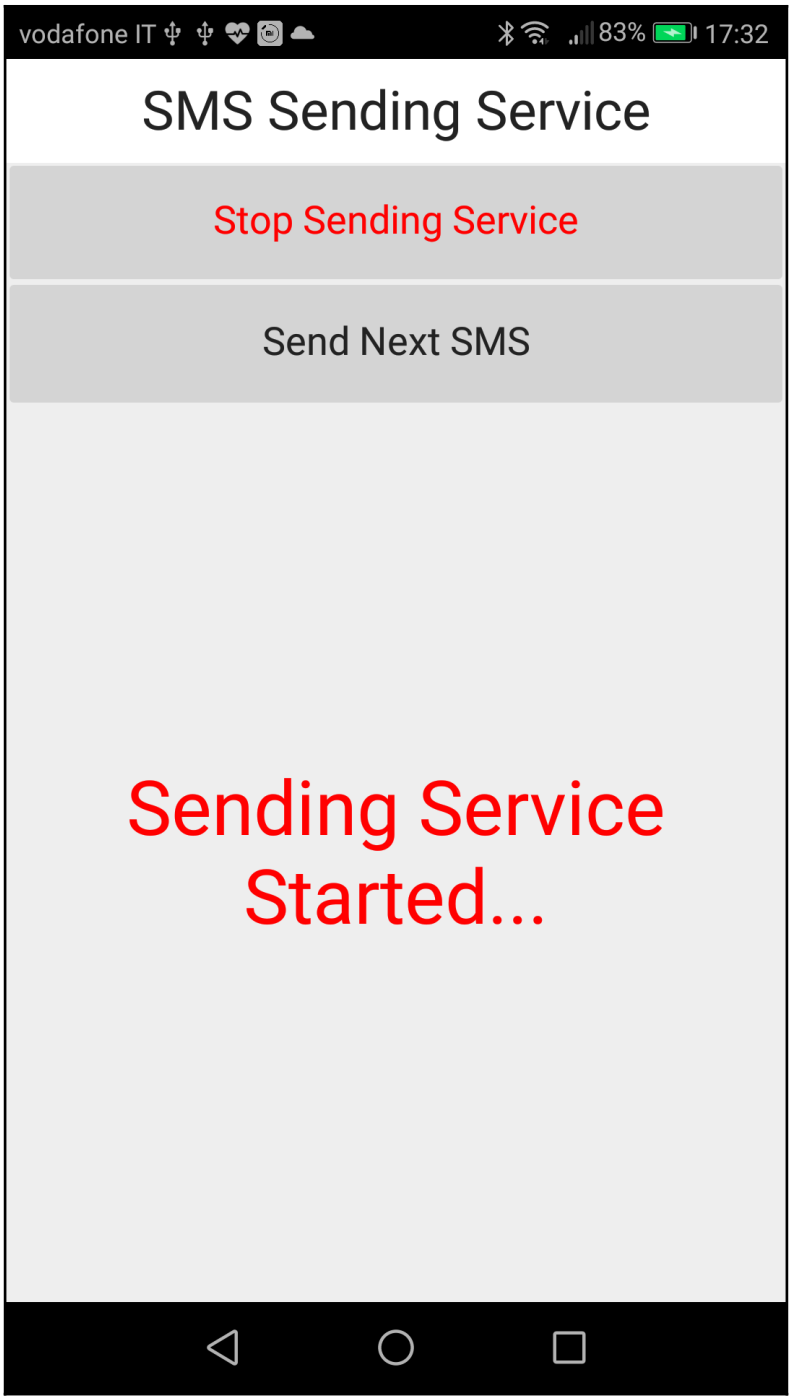

PhoneDialer - Delphi 10.2 - MainFormU
File Edit Search View Refactor Project Run Component Tools Window Help
Android
Structure
Welcome Page MainFormU Documentation
Style: Android
MainForm
btnCall
edtPhoneNumber
Label2
lbCalls
lblnfo
ToolBar1
Phone Dialer
Call
Calls
lbCalls
lblnfo
Object Inspector
MainForm TMainForm
Search
Properties Events
Action
ActiveControl
BiDiMode bdLeftToRight
Border (TFormBorder)
BorderIcons [biSystemMenu,biMinimize,bil
BorderStyle Sizeable
Caption
ClientHeight 567
ClientWidth 360
Cursor crDefault


33% 21:10
Phone Dialer
+393
Call
Calls
+3932 Incoming
+3932 Disconnected
+3932 Dialing
+3932 Disconnected
Carrier Name: vodafone IT
ISO Country Code: it
Network Code: 222
Mobile Network: 10

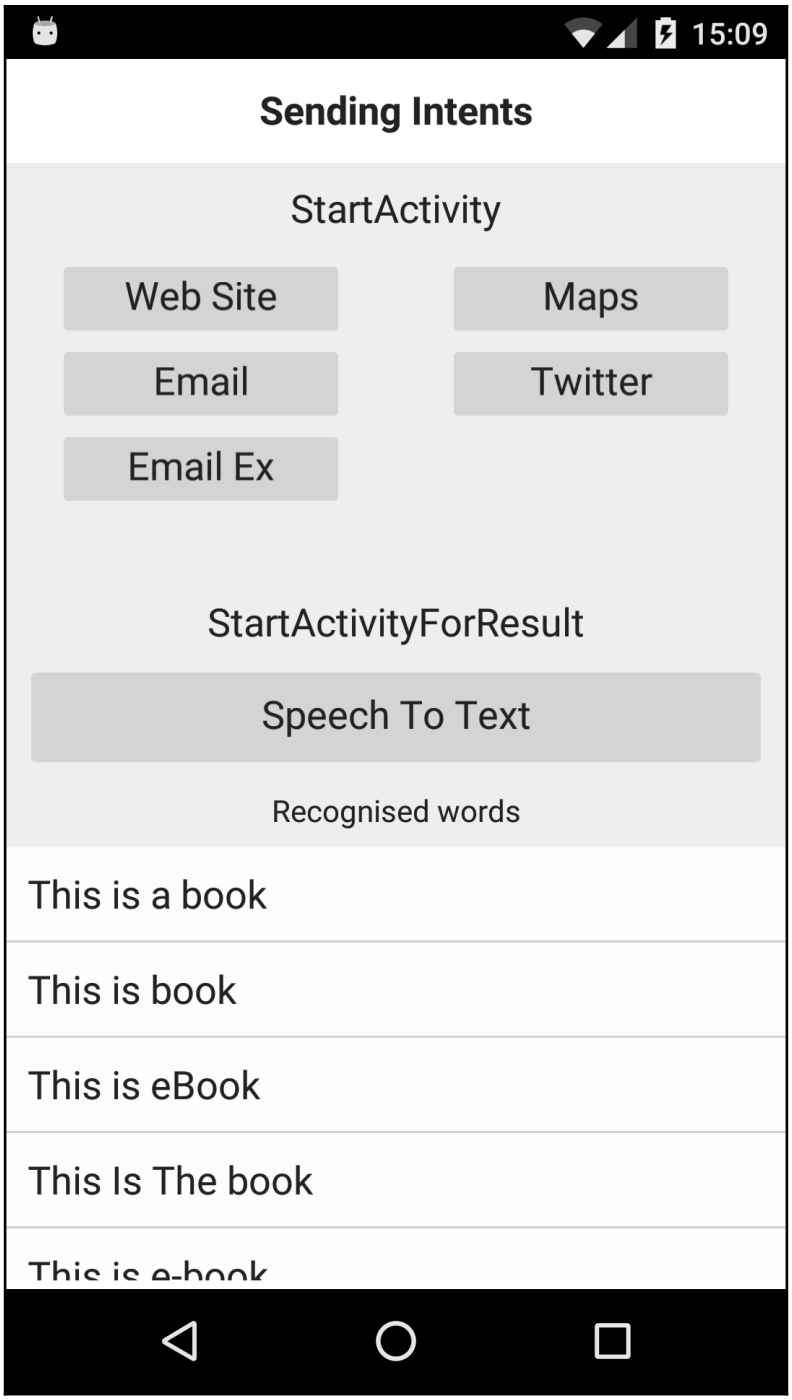

10:02
App Lifecycle Demo
Open Form
ShowMessage
Share
Form.Close
Clear List
Add Separator
Show form events too
10:02:08: Event FormCreate
10:02:08: Event FormResize
10:02:08: Event FormResize
10:02:08: Event FormResize
10:02:08: Event FormShow
10:02:08: Event FormActivate
10:02:08: App Finished Launching
10:02:08: Event FormResize
10:02:08: App Became Active
10:02:10: ----------
10:02:11: App Will Become Inactive
10:02:11: App Entered Background
10:02:13: App Will Become Foreground
10:02:13: App Became Active

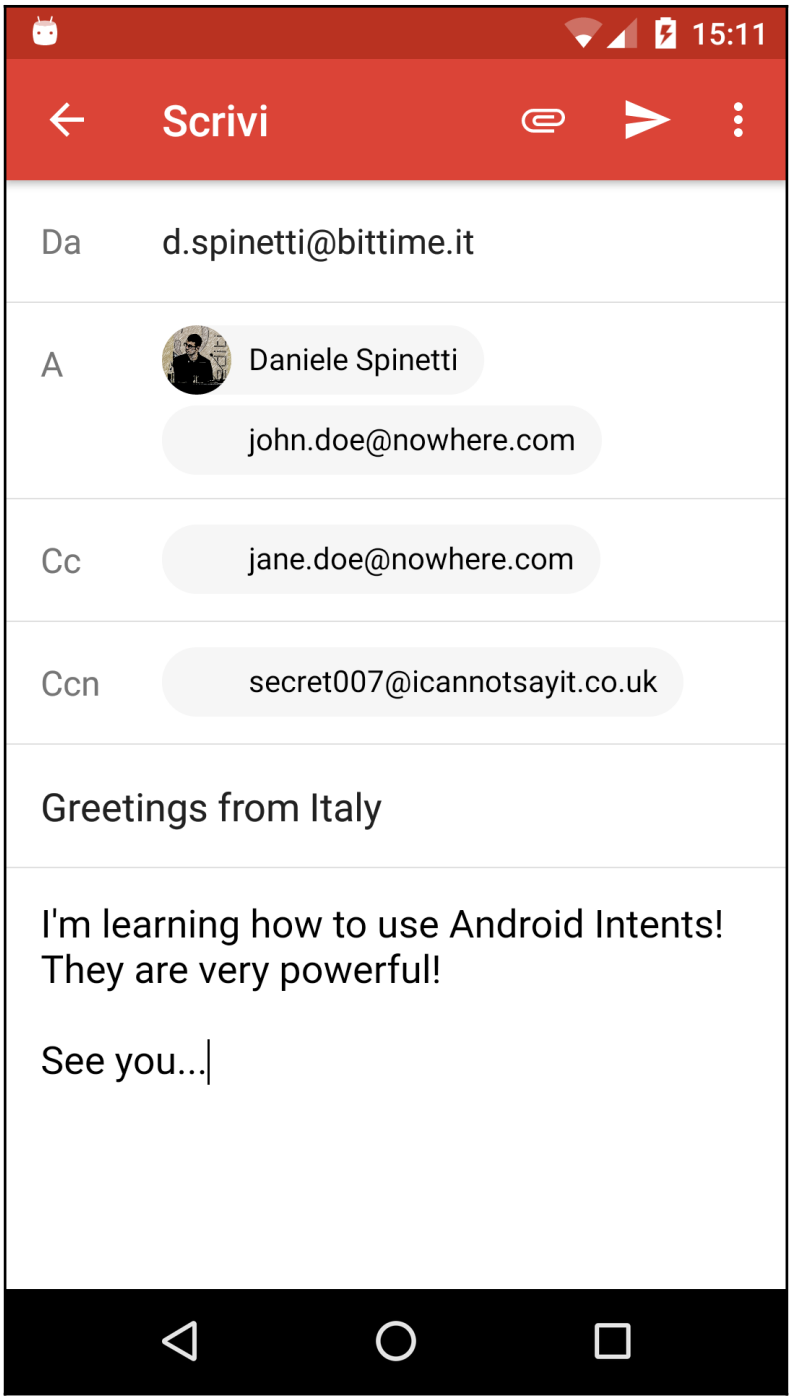

SMS Sending Service
Start Sending Service
Send Next SMS
SendTimer
ActionList1
Sending Service Stopped...

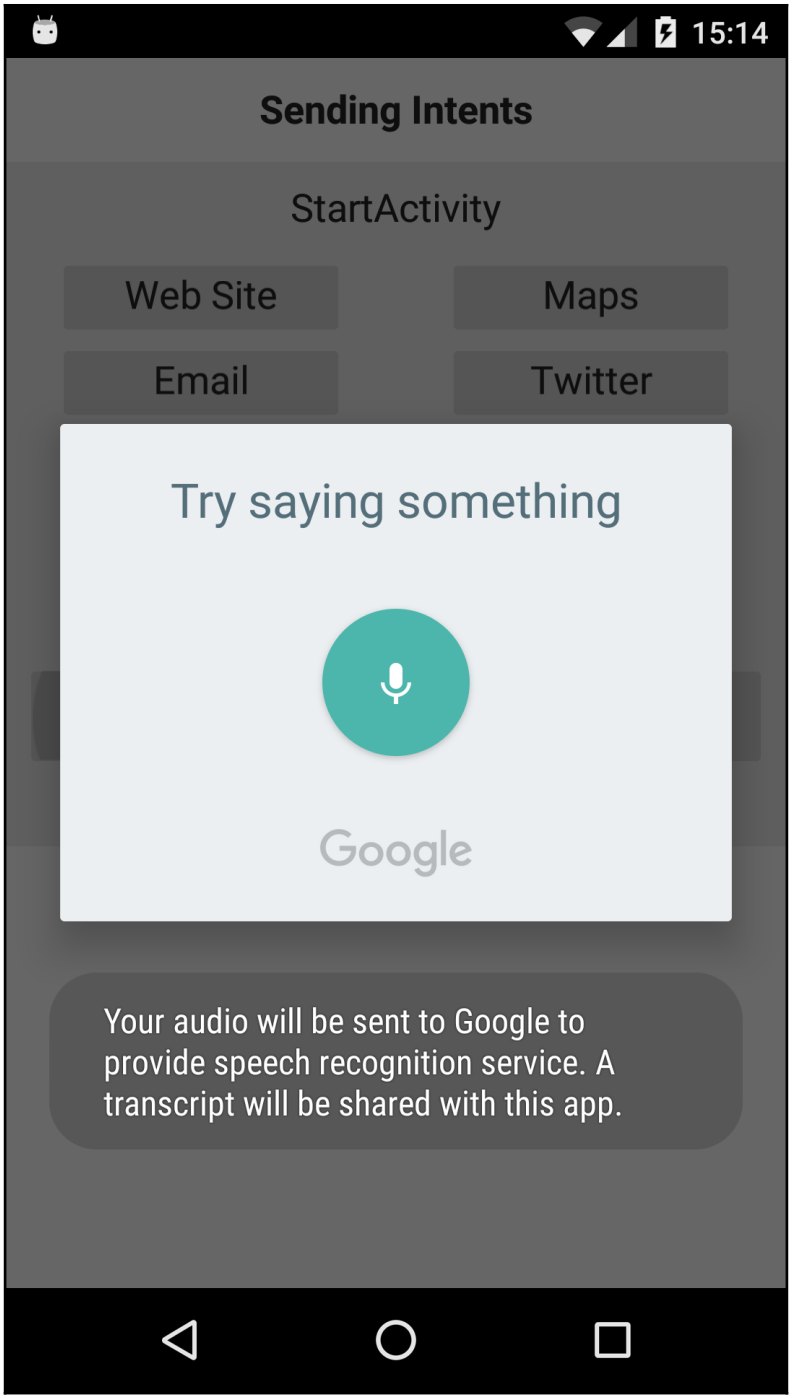
SMS Test Console
Recipient Number
SMS Text
Push SMS

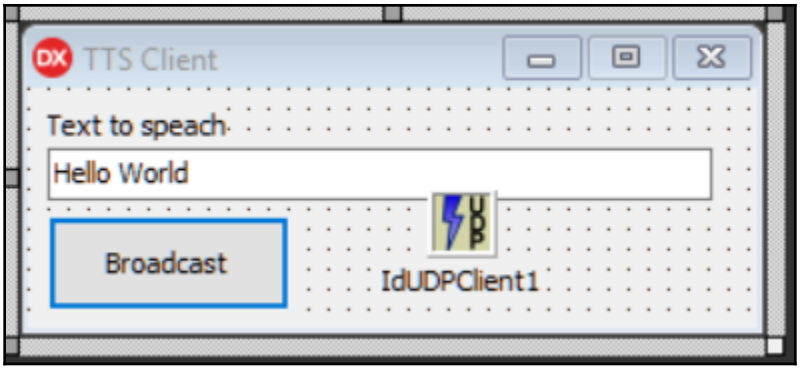

vodafone IT
83%
17:32
SMS Sending Service
Stop Sending Service
Send Next SMS
Sending Service Started...

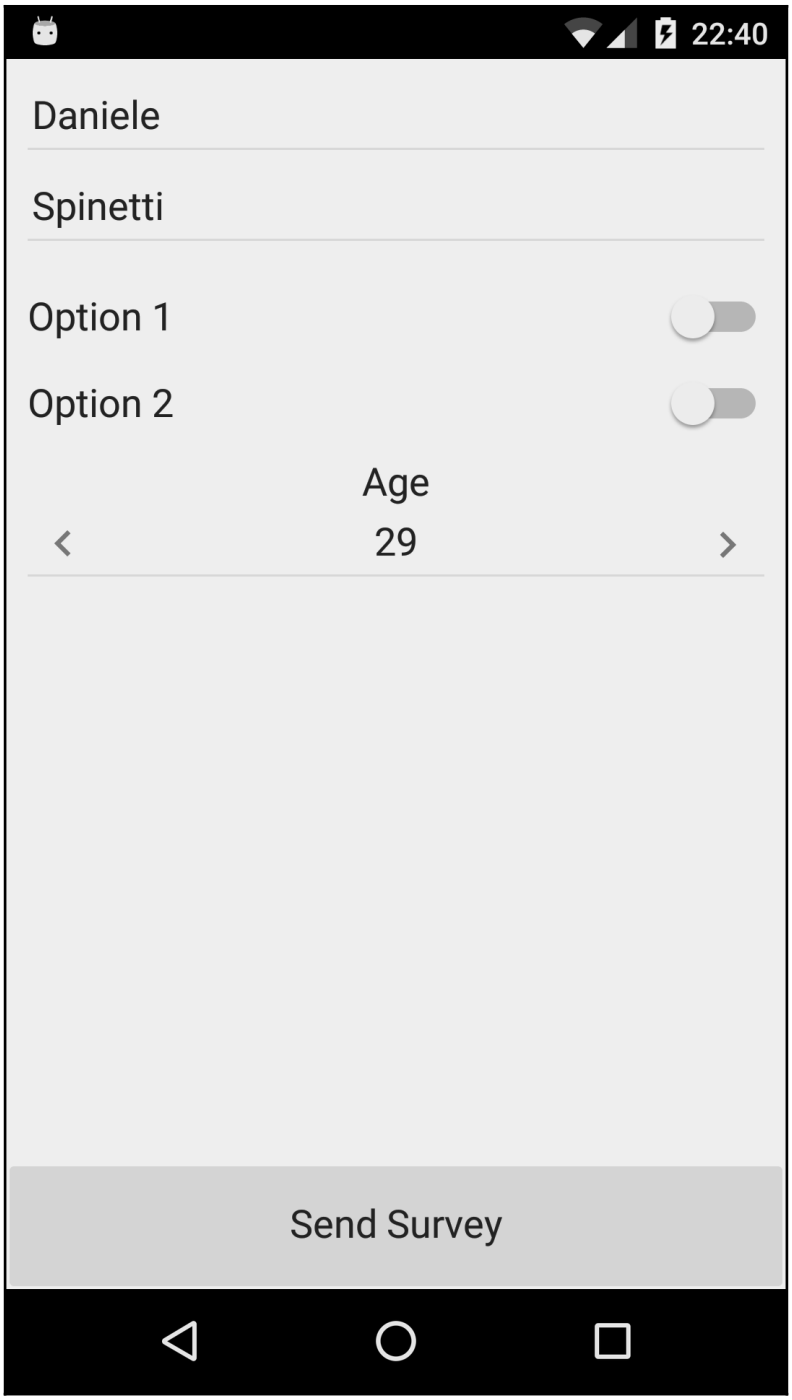
# Chapter 9: Using specific platform features


15:09
Sending Intents
StartActivity
Web Site
Maps
Email
Twitter
Email Ex
StartActivityForResult
Speech To Text
Recognised words
This is a book
This is book
This is eBook
This Is The book

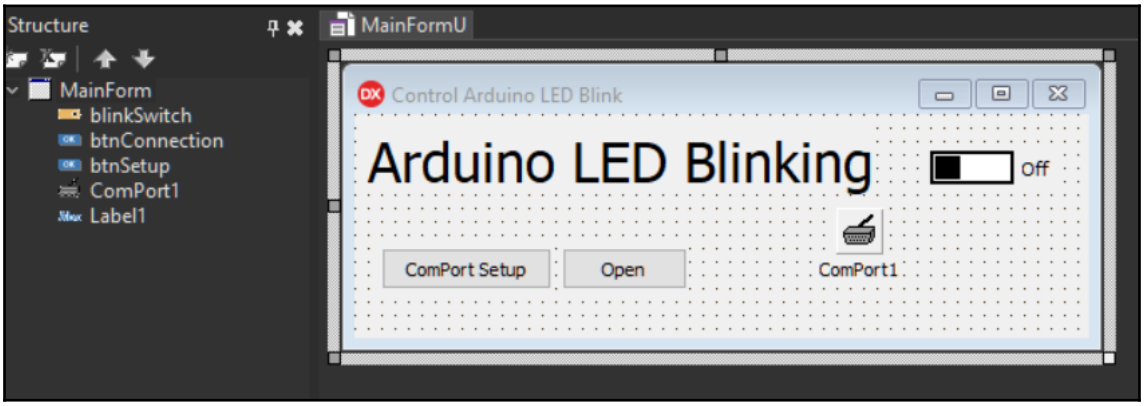

15:11
Scrivi
Da
d.spinetti@bittime.it
A
Daniele Spinetti
john.doe@nowhere.com
Cc
jane.doe@nowhere.com
Ccn
secret007@icannotsayit.co.uk
Greetings from Italy
I'm learning how to use Android Intents!
They are very powerful!
See you...

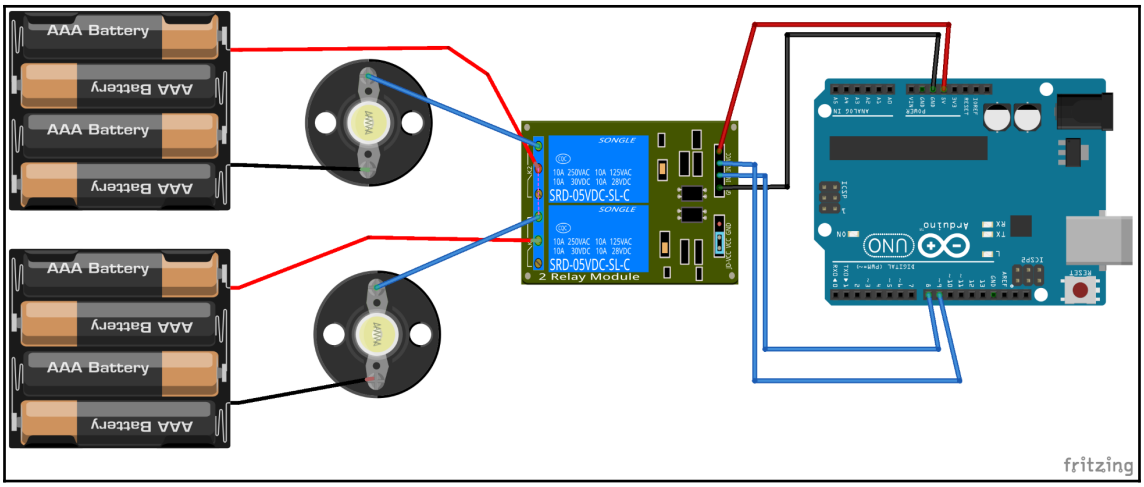

15:14
Sending Intents
StartActivity
Web Site
Maps
Email
Twitter
Try saying something
Google
Your audio will be sent to Google to provide speech recognition service. A transcript will be shared with this app.

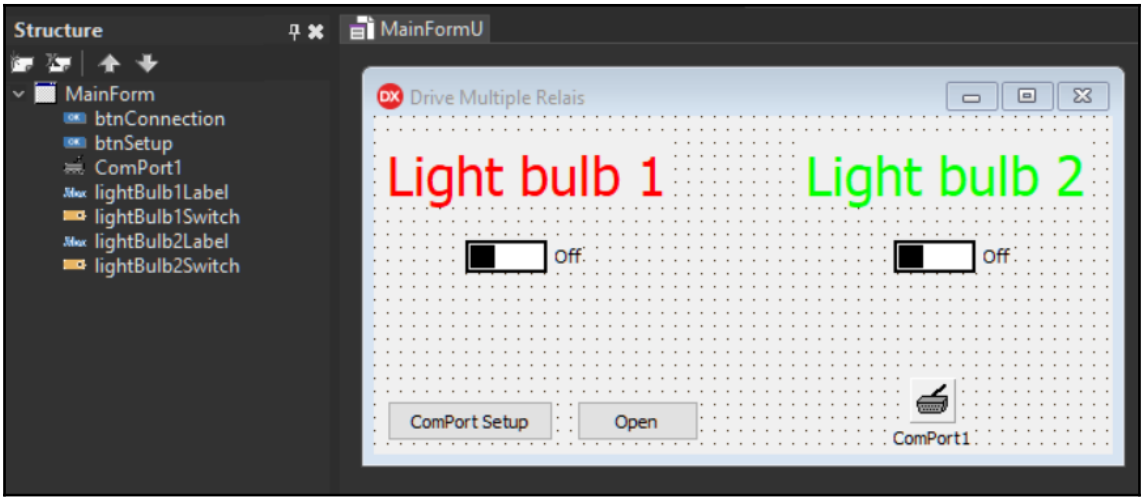

TTS Client
Text to speach
Hello World
Broadcast
IdUDPClient1

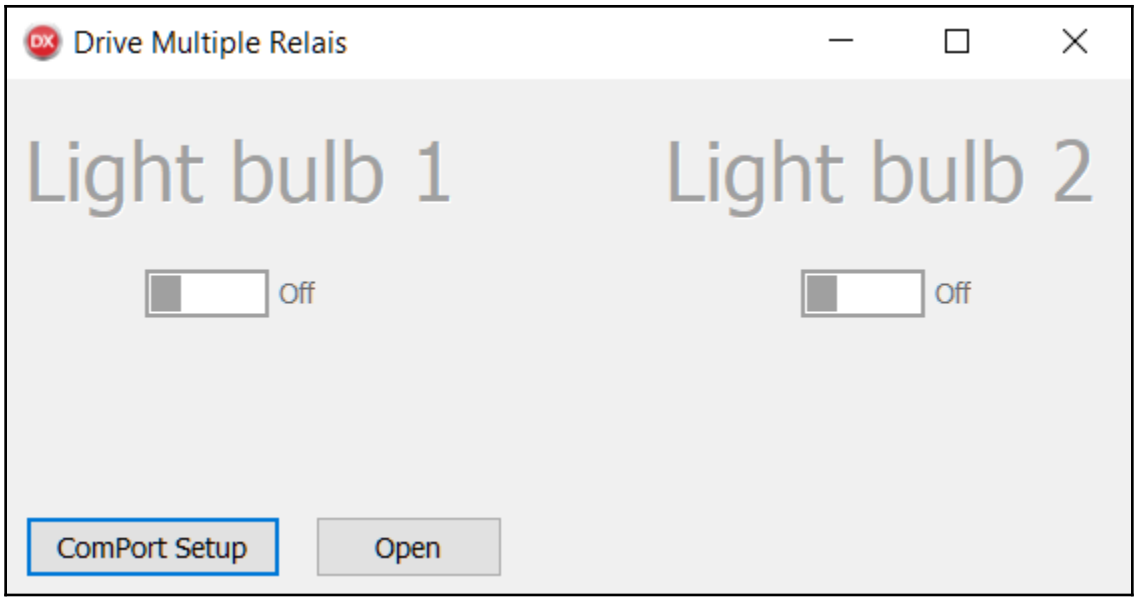

22:40
Daniele
Spinetti
Option 1
Option 2
Age
29
Send Survey

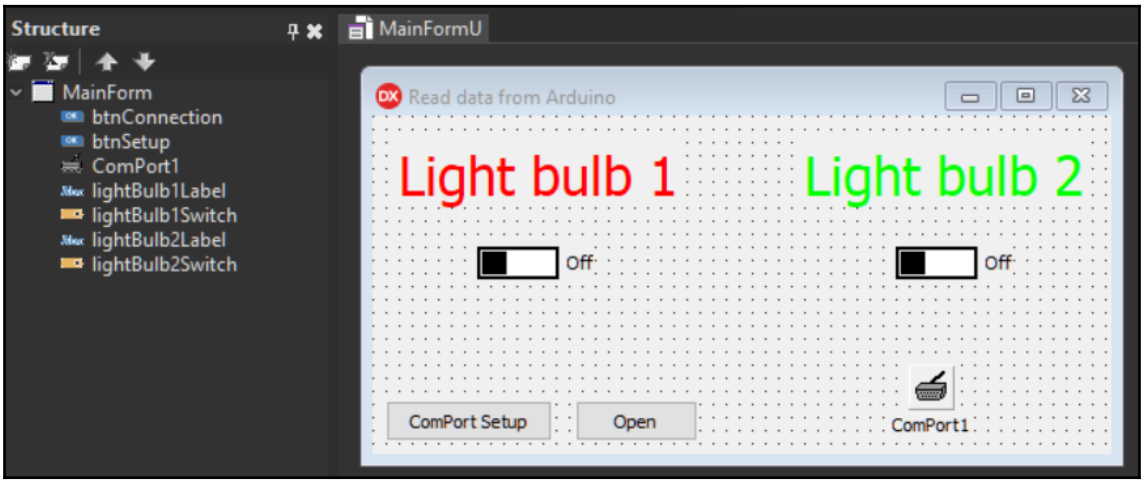
# Chapter 10: Delphi and IoT

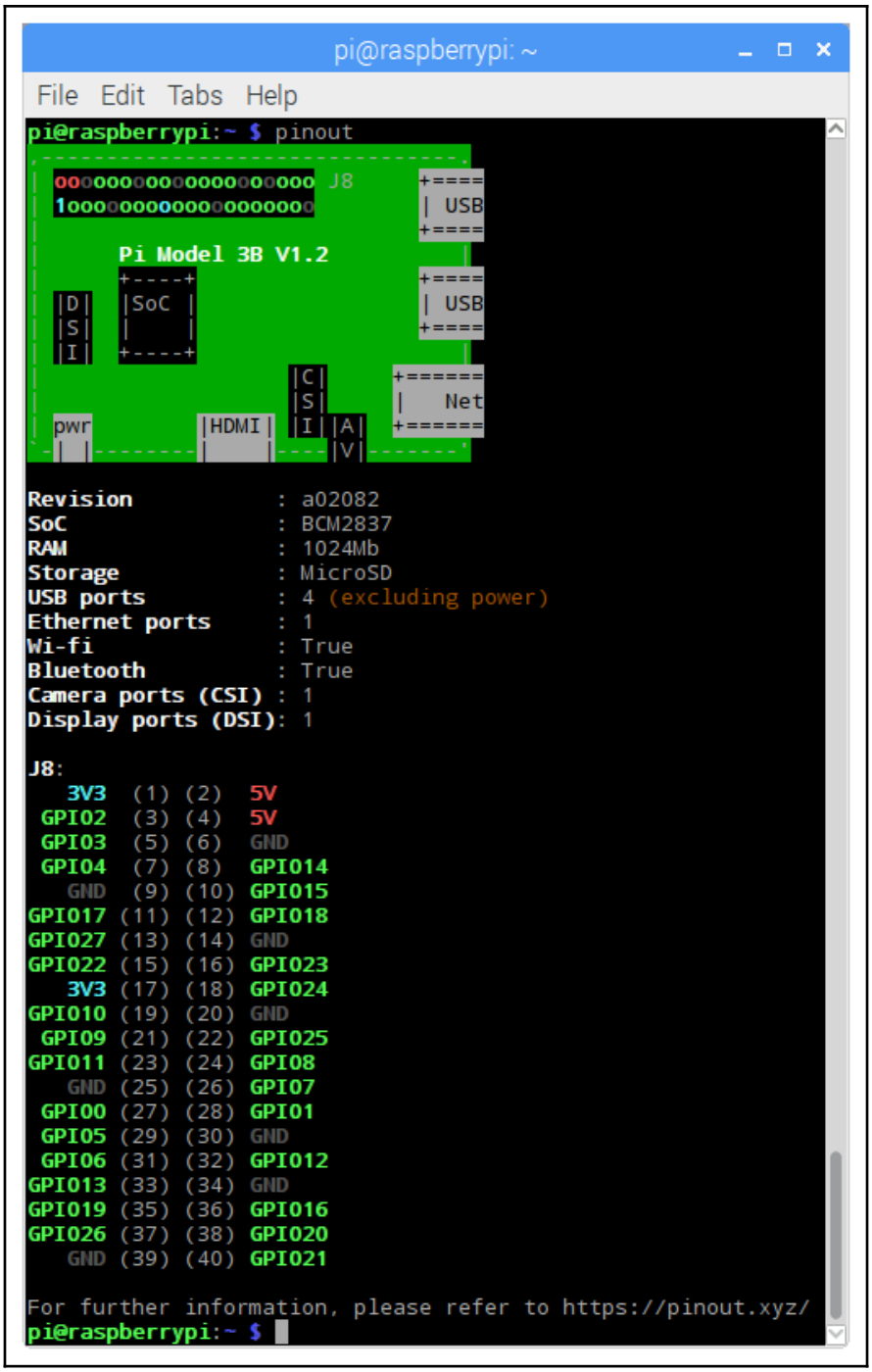


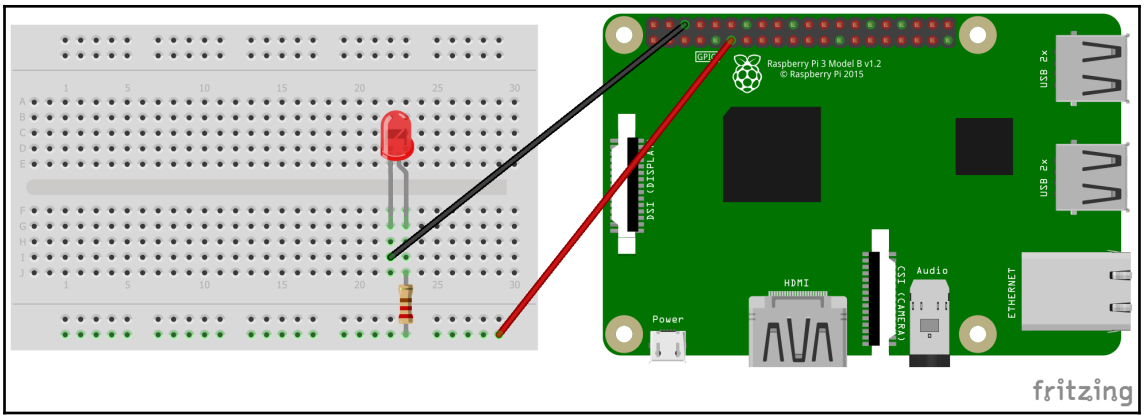

AAA Battery
AAA Battery
AAA Battery
AAA Battery
AAA Battery
AAA Battery
AAA Battery
AAA Battery
SRD-05VDC-SL-C
SRD-05VDC-SL-C
2 Relay Module
UNO
fritzing

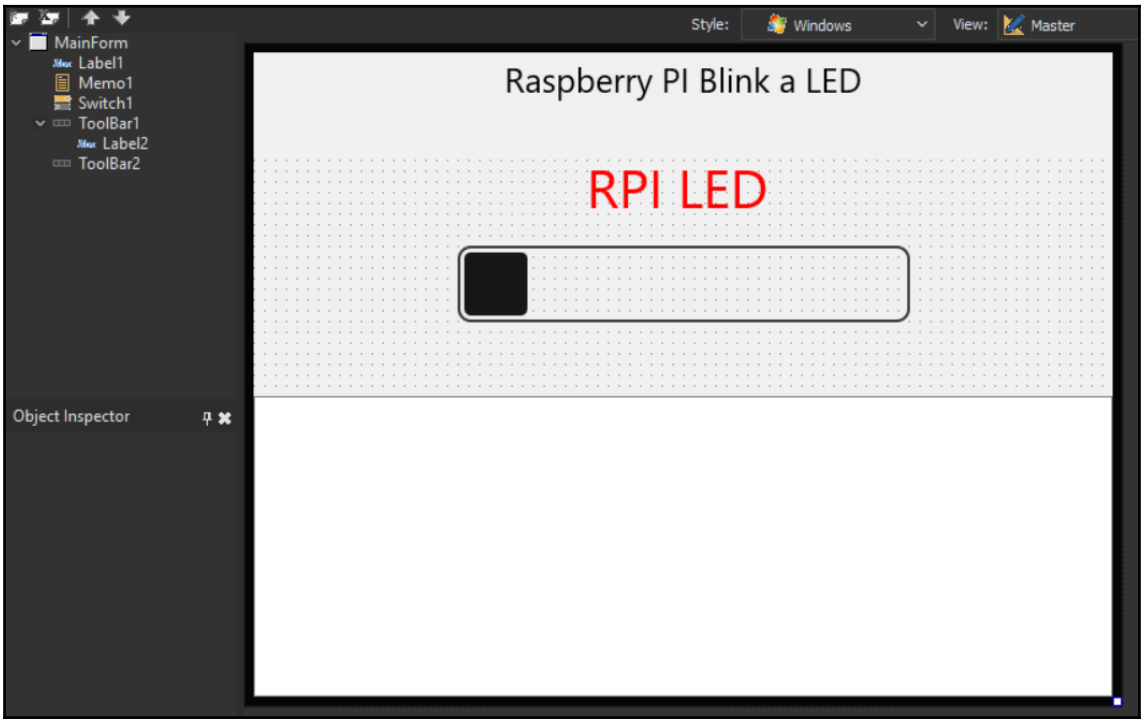

Structure
MainFormU
MainForm
btnConnection
btnSetup
ComPort1
lightBulb1Label
lightBulb1Switch
lightBulb2Label
lightBulb2Switch
Drive Multiple Relais
Light bulb 1
Light bulb 2
Off
Off
ComPort Setup
Open
ComPort1

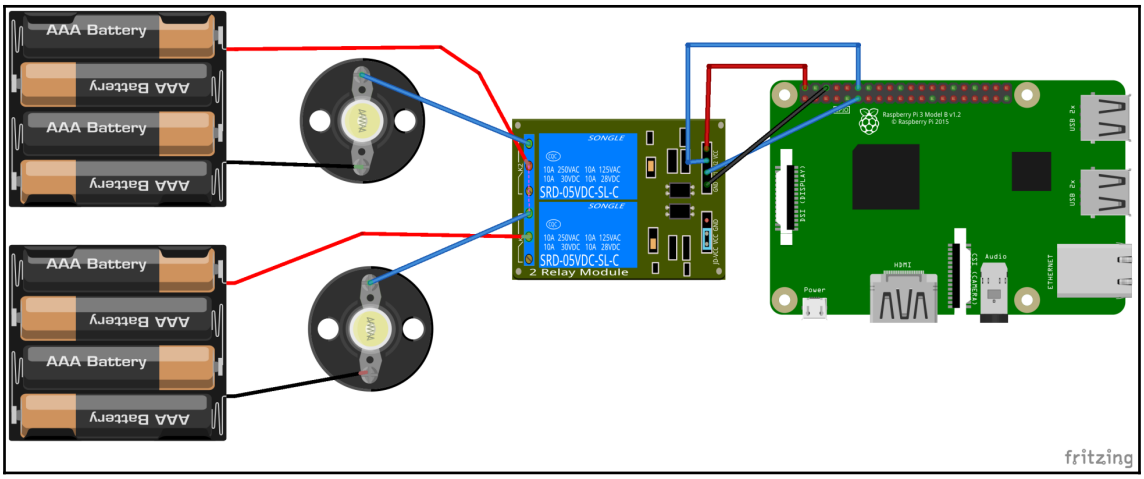

Drive Multiple Relais
Light bulb 1
Light bulb 2
Off
Off
ComPort Setup
Open


Structure
MainFormU
MainForm
btnConnection
btnSetup
ComPort1
lightBulb1Label
lightBulb1Switch
lightBulb2Label
lightBulb2Switch
Read data from Arduino
Light bulb 1
Light bulb 2
Off
Off
ComPort Setup
Open
ComPort1


pi@raspberrypi: ~
File Edit Tabs Help
pi@raspberrypi:~ $ pinout
J8
USB
USB
Net
Pi Model 3B V1.2
SoC
DSI
CSI
HDMI
pwr
Revision : a02082
SoC : BCM2837
RAM : 1024Mb
Storage : MicroSD
USB ports : 4 (excluding power)
Ethernet ports : 1
Wi-fi : True
Bluetooth : True
Camera ports (CSI) : 1
Display ports (DSI): 1
J8:
3V3 (1) (2) 5V
GPIO2 (3) (4) 5V
GPIO3 (5) (6) GND
GPIO4 (7) (8) GPIO14
GND (9) (10) GPIO15
GPIO17 (11) (12) GPIO18
GPIO27 (13) (14) GND
GPIO22 (15) (16) GPIO23
3V3 (17) (18) GPIO24
GPIO10 (19) (20) GND
GPIO9 (21) (22) GPIO25
GPIO11 (23) (24) GPIO8
GND (25) (26) GPIO7
GPIO0 (27) (28) GPIO1
GPIO5 (29) (30) GND
GPIO6 (31) (32) GPIO12
GPIO13 (33) (34) GND
GPIO19 (35) (36) GPIO16
GPIO26 (37) (38) GPIO20
GND (39) (40) GPIO21
For further information, please refer to https://pinout.xyz/
pi@raspberrypi:~ $


Raspberry Pi 3 Model B v1.2
© Raspberry Pi 2015
USB 2x
USB 2x
DSI (DISPLAY)
HDMI
CSI (CAMERA)
Audio
ETHERNET
Power
fritzing


Style:
Windows
View:
Master
MainForm
Label1
Memo1
Switch1
ToolBar1
Label2
ToolBar2
Raspberry PI Blink a LED
RPI LED
Object Inspector


AAA Battery
AAA Battery
AAA Battery
AAA Battery
AAA Battery
AAA Battery
AAA Battery
AAA Battery
SONGLE
10A 250VAC 10A 125VAC
10A 30VDC 10A 28VDC
SRD-05VDC-SL-C
SONGLE
10A 250VAC 10A 125VAC
10A 30VDC 10A 28VDC
SRD-05VDC-SL-C
2 Relay Module
Raspberry Pi 3 Model B v1.2
© Raspberry Pi 2015
USB 2x
USB 2x
HDMI
Audio
ETHERNET
Power
fritzing