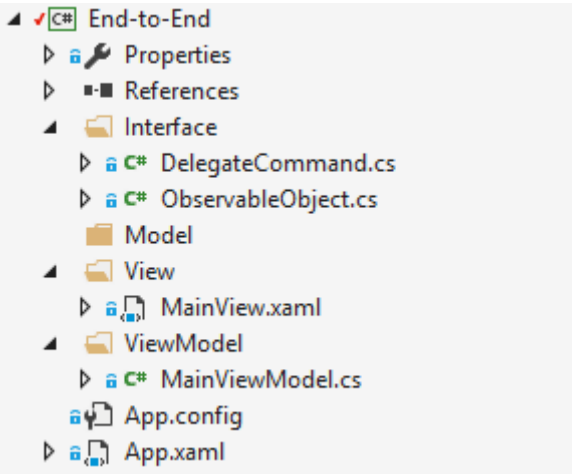
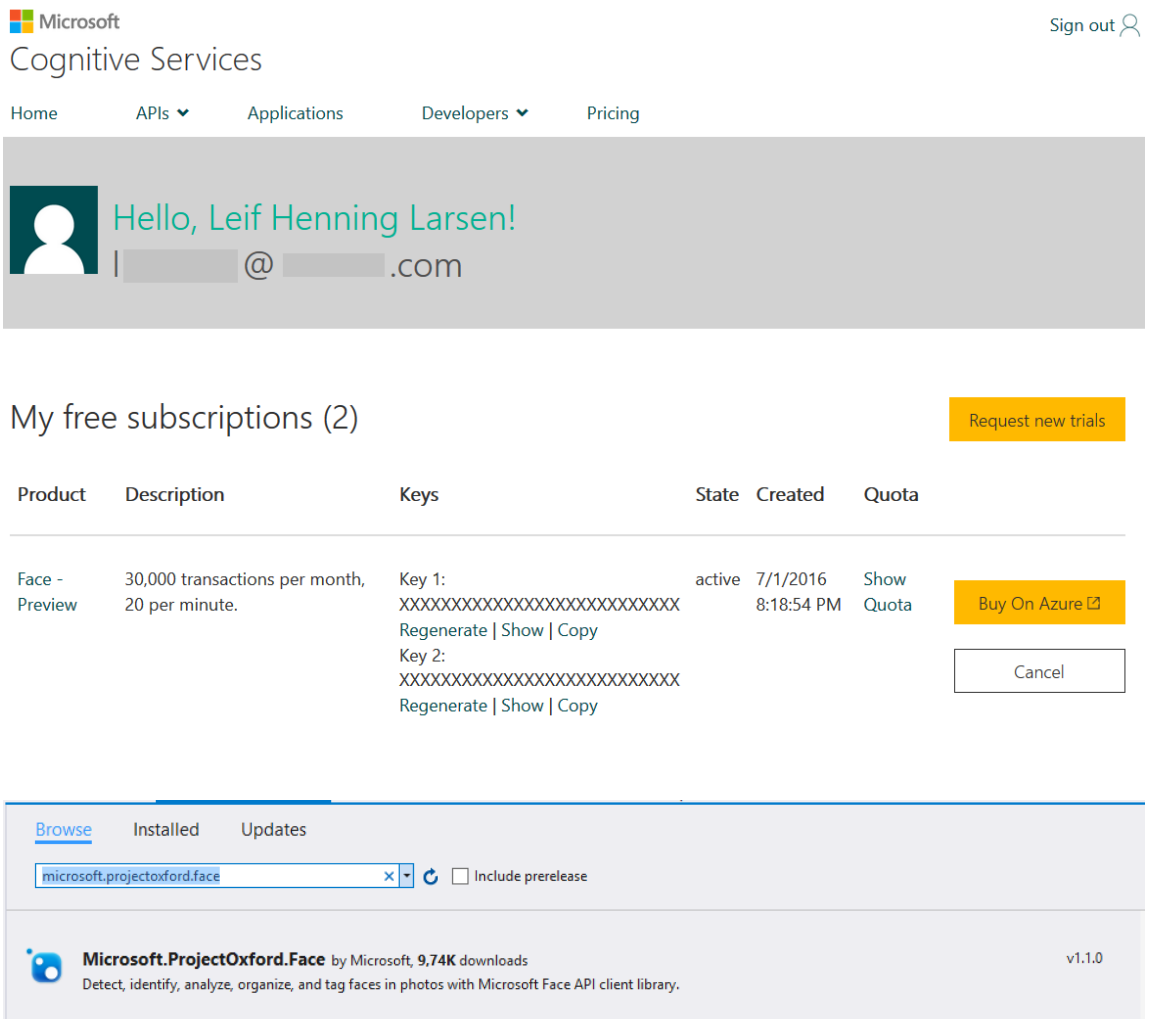
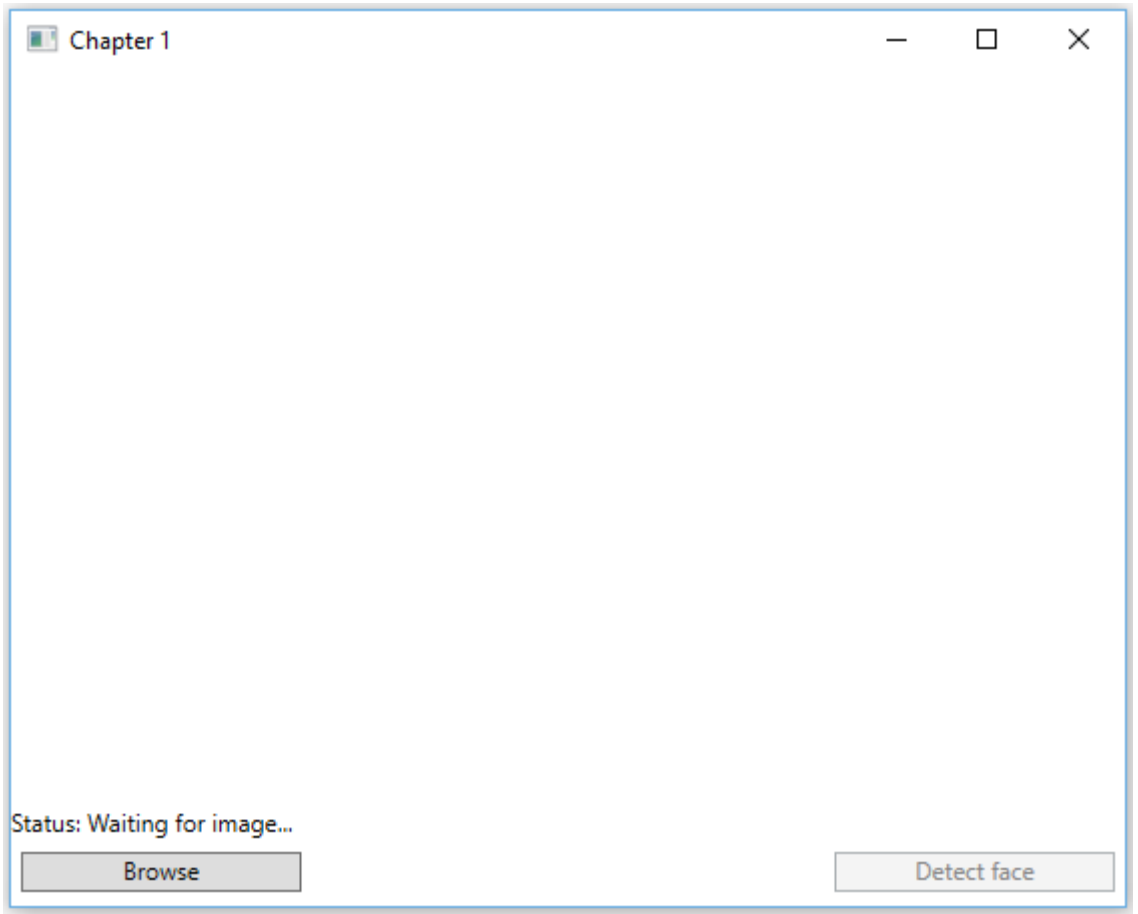
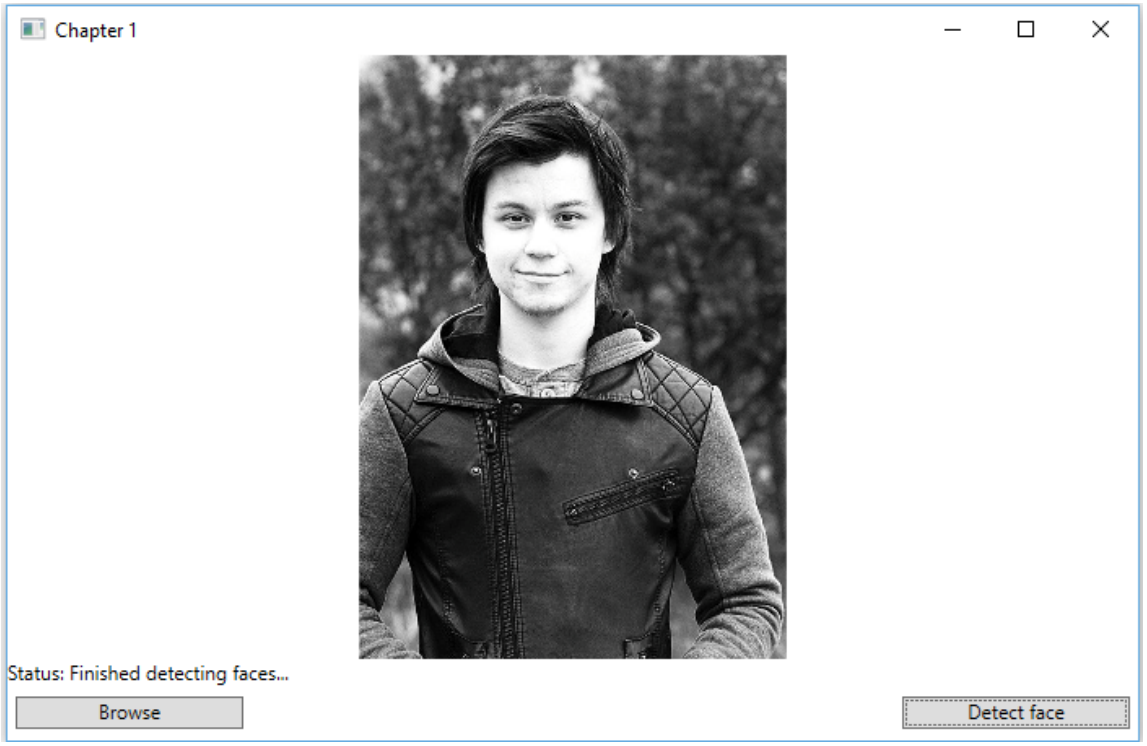
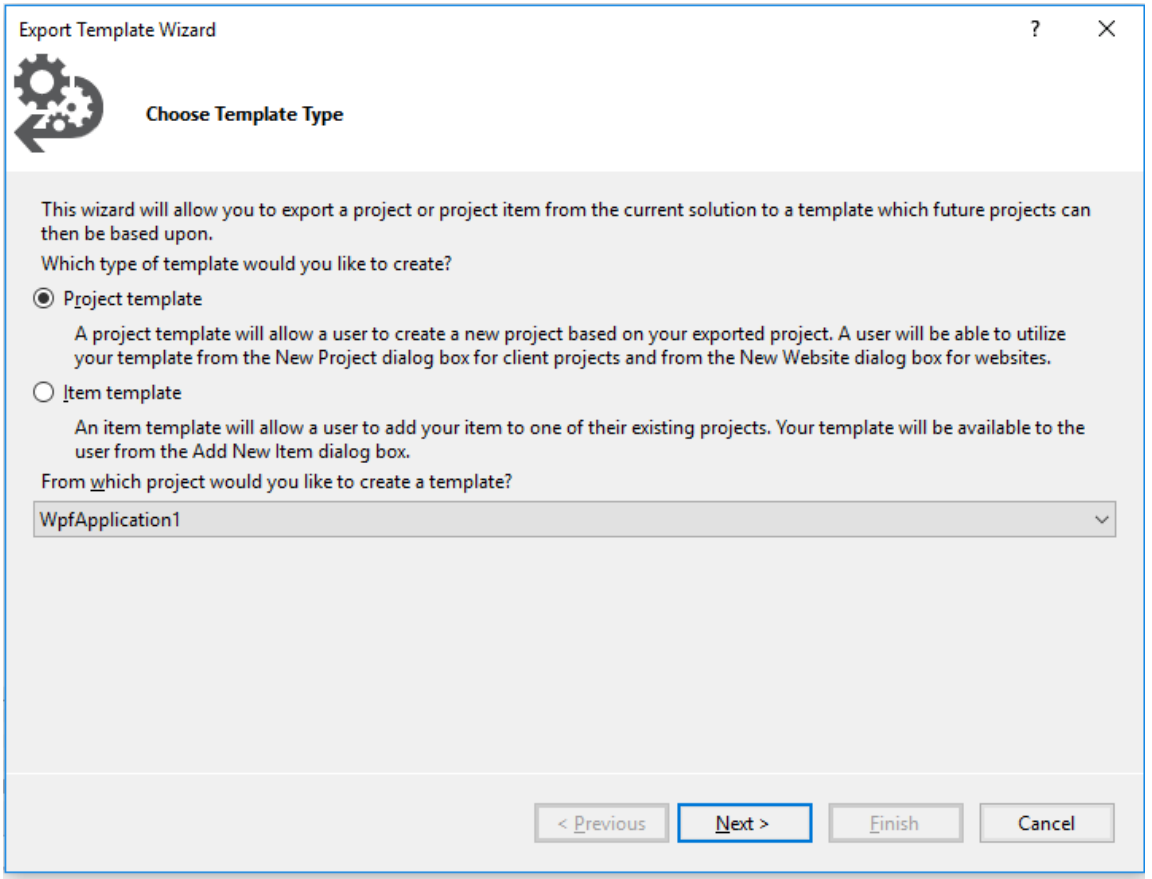
Chapter 1: Getting Started with Microsoft Cognitive Services

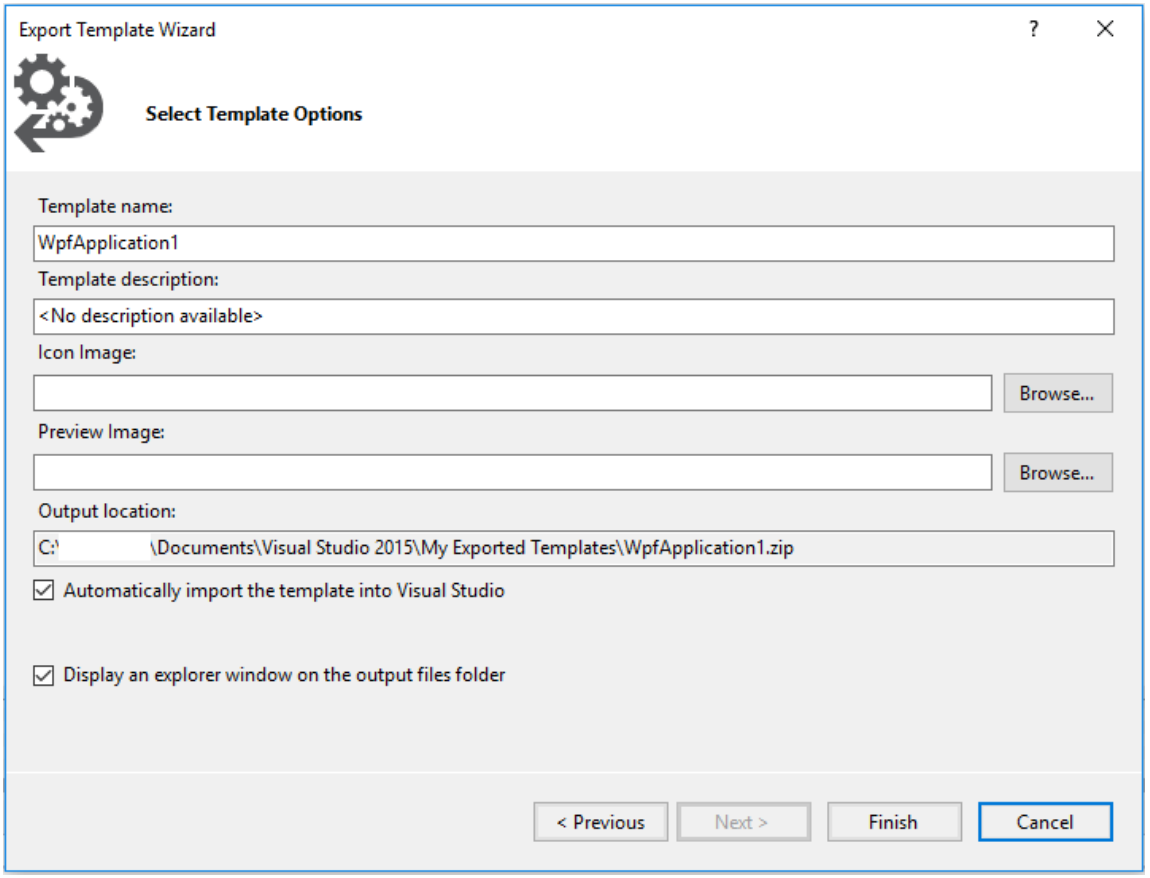


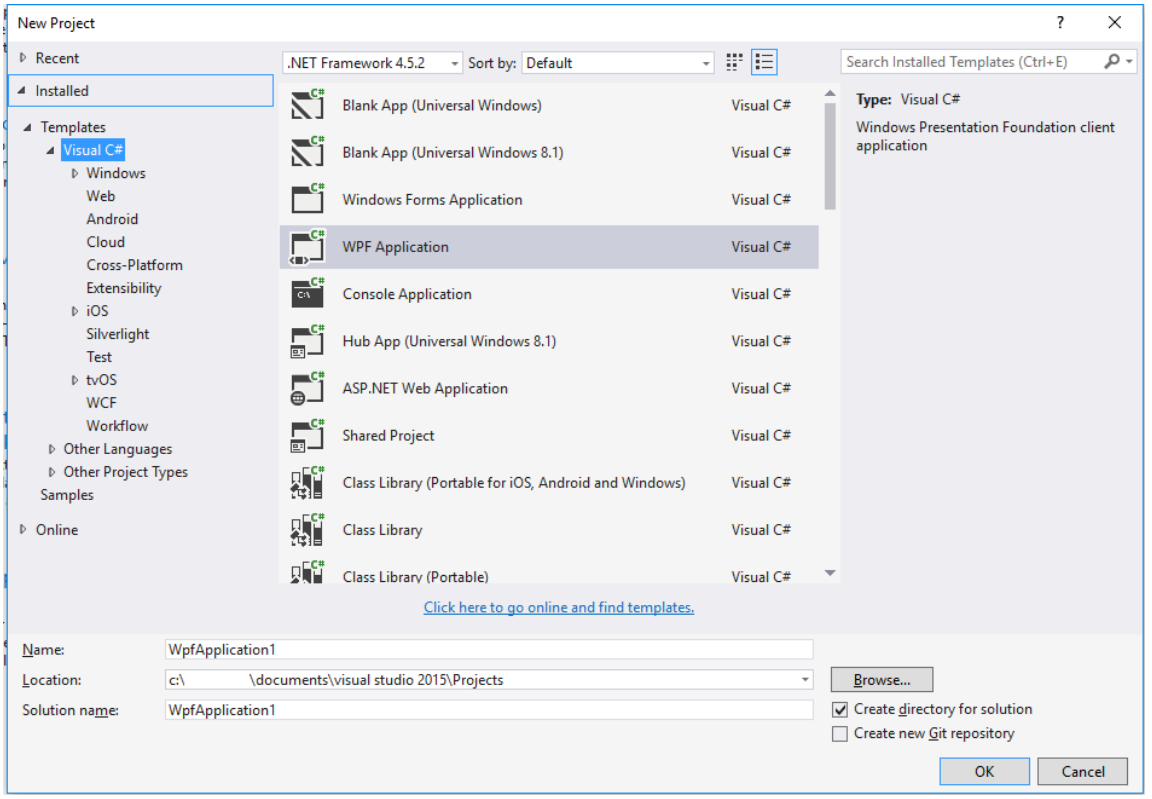

Microsoft
Cognitive Services
Sign out
Home
APIs
Applications
Developers
Pricing
Hello, Leif Henning Larsen!
l @ .com
My free subscriptions (2)
Request new trials
Product
Description
Keys
State
Created
Quota
Face - Preview
30,000 transactions per month, 20 per minute.
Key 1: XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Regenerate | Show | Copy
Key 2: XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Regenerate | Show | Copy
active
7/1/2016 8:18:54 PM
Show Quota
Buy On Azure
Cancel
Browse
Installed
Updates
microsoft.projectoxford.face
Include prerelease
Microsoft.ProjectOxford.Face by Microsoft, 9,74K downloads
Detect, identify, analyze, organize, and tag faces in photos with Microsoft Face API client library.
v1.1.0


Chapter 1
Status: Waiting for image...
Browse
Detect face

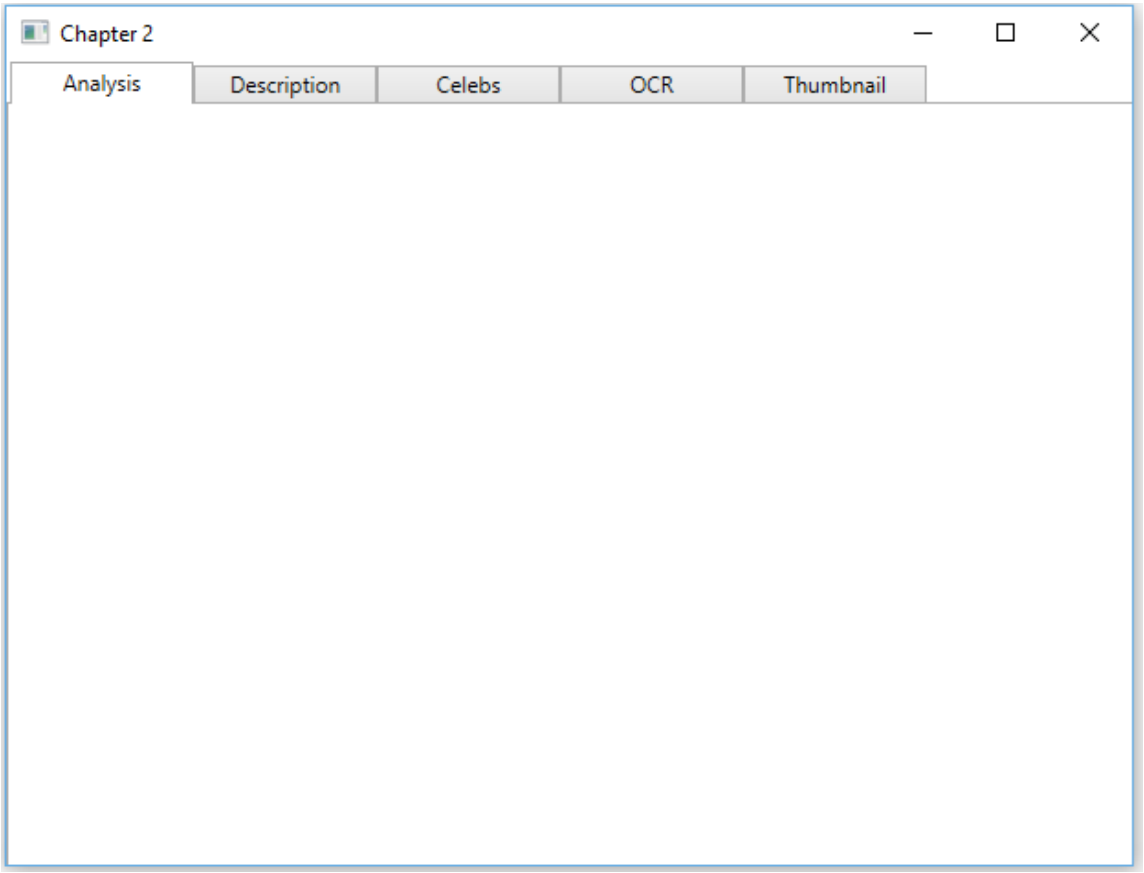

Chapter 1
Status: Finished detecting faces...
Browse
Detect face

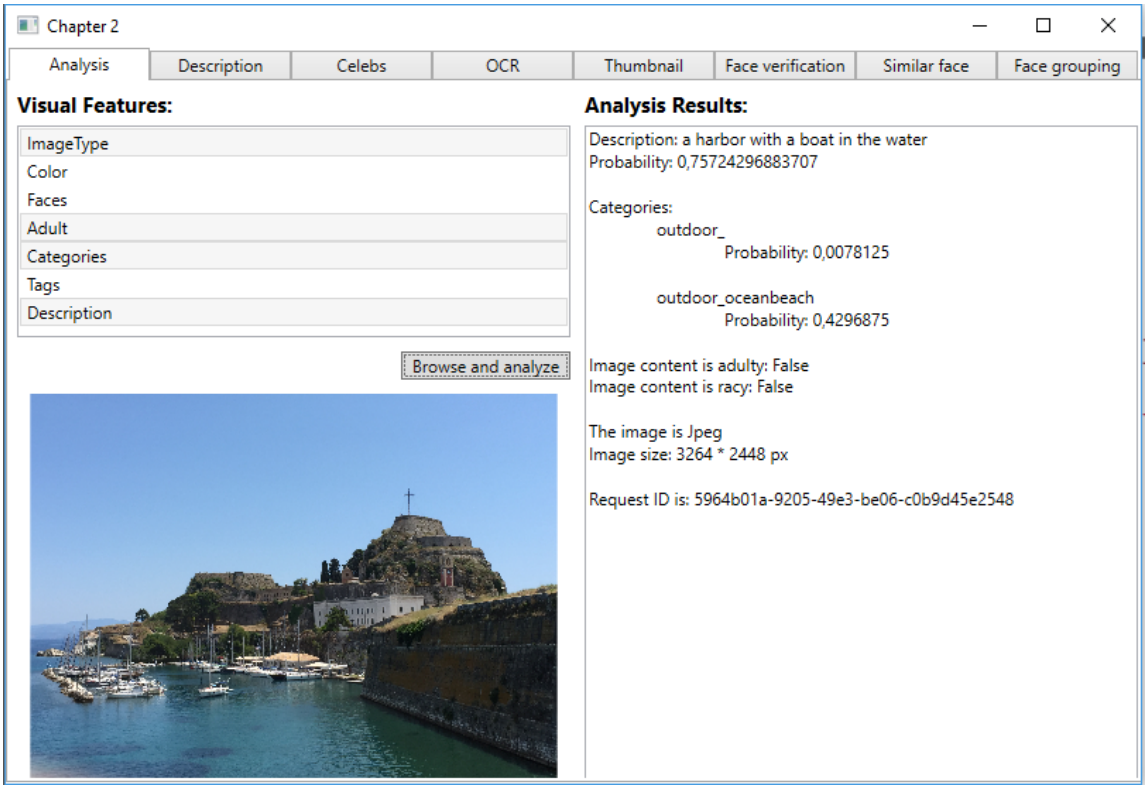

Export Template Wizard
Choose Template Type
This wizard will allow you to export a project or project item from the current solution to a template which future projects can then be based upon.
Which type of template would you like to create?
Project template
A project template will allow a user to create a new project based on your exported project. A user will be able to utilize your template from the New Project dialog box for client projects and from the New Website dialog box for websites.
Item template
An item template will allow a user to add your item to one of their existing projects. Your template will be available to the user from the Add New Item dialog box.
From which project would you like to create a template?
WpfApplication1
< Previous
Next >
Finish
Cancel

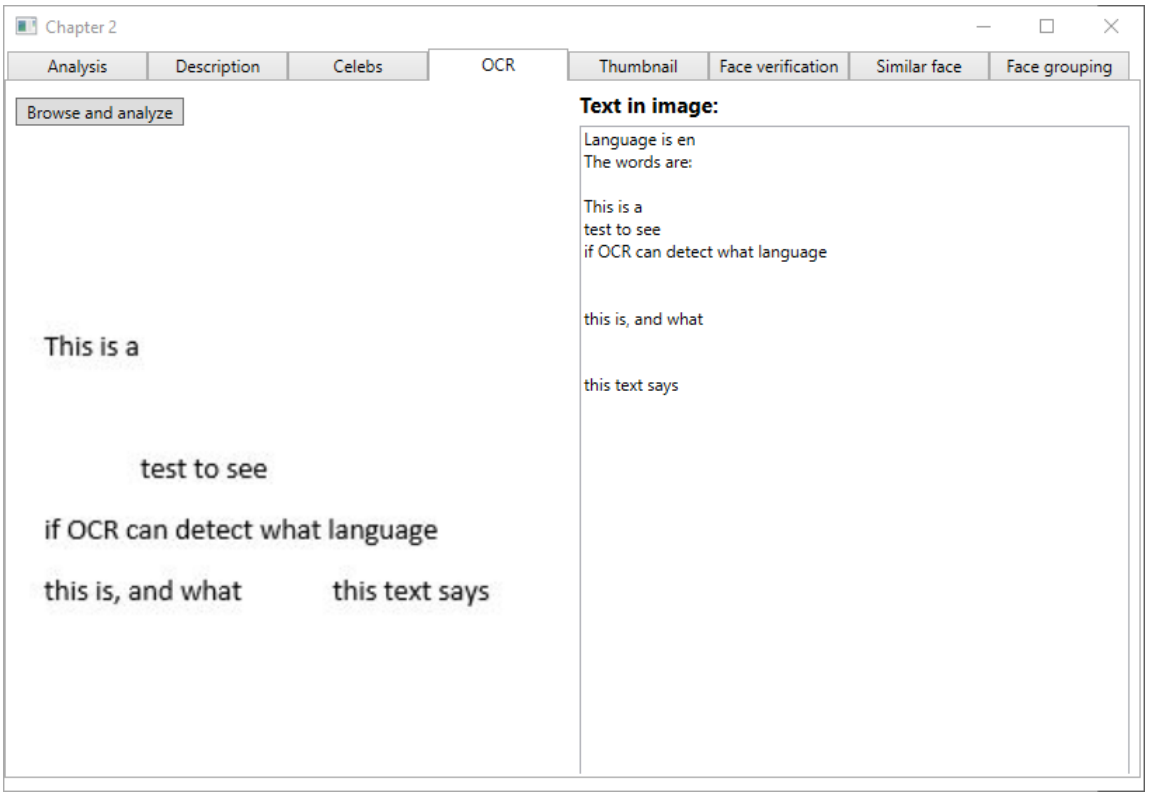

Export Template Wizard
Select Template Options
Template name:
WpfApplication1
Template description:
<No description available>
Icon Image:
Browse...
Preview Image:
Browse...
Output location:
C:\ \Documents\Visual Studio 2015\My Exported Templates\WpfApplication1.zip
Automatically import the template into Visual Studio
Display an explorer window on the output files folder
< Previous
Next >
Finish
Cancel

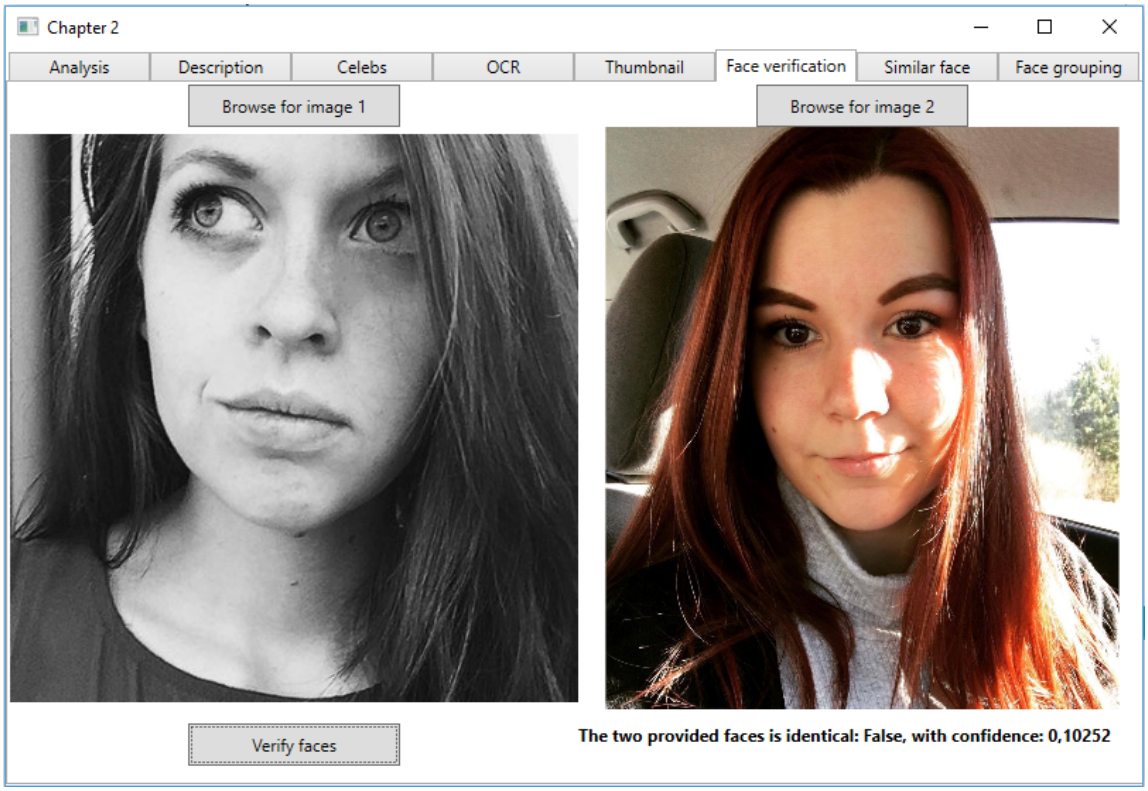

New Project
Recent
Installed
Templates
Visual C#
Windows
Web
Android
Cloud
Cross-Platform
Extensibility
iOS
Silverlight
Test
tvOS
WCF
Workflow
Other Languages
Other Project Types
Samples
Online
.NET Framework 4.5.2
Sort by: Default
Search Installed Templates (Ctrl+E)
Blank App (Universal Windows) Visual C#
Blank App (Universal Windows 8.1) Visual C#
Windows Forms Application Visual C#
WPF Application Visual C#
Console Application Visual C#
Hub App (Universal Windows 8.1) Visual C#
ASP.NET Web Application Visual C#
Shared Project Visual C#
Class Library (Portable for iOS, Android and Windows) Visual C#
Class Library Visual C#
Class Library (Portable) Visual C#
Type: Visual C#
Windows Presentation Foundation client application
Click here to go online and find templates.
Name: WpfApplication1
Location: c:\ \documents\visual studio 2015\Projects
Solution name: WpfApplication1
Browse...
Create directory for solution
Create new Git repository
OK
Cancel

Chapter 2: Analyzing Images to Recognize a Face




Chapter 2
Analysis
Description
Celebs
OCR
Thumbnail
Face verification
Similar face
Face grouping
Visual Features:
ImageType
Color
Faces
Adult
Categories
Tags
Description
Browse and analyze
Analysis Results:
Description: a harbor with a boat in the water
Probability: 0,75724296883707
Categories:
outdoor_
Probability: 0,0078125
outdoor_oceanbeach
Probability: 0,4296875
Image content is adulty: False
Image content is racy: False
The image is Jpeg
Image size: 3264 * 2448 px
Request ID is: 5964b01a-9205-49e3-be06-c0b9d45e2548


Chapter 2
Analysis
Description
Celebs
OCR
Thumbnail
Face verification
Similar face
Face grouping
Browse and analyze
This is a
test to see
if OCR can detect what language
this is, and what
this text says
Text in image:
Language is en
The words are:
This is a
test to see
if OCR can detect what language
this is, and what
this text says


Chapter 2
Analysis
Description
Celebs
OCR
Thumbnail
Face verification
Similar face
Face grouping
Browse for image 1
Browse for image 2
Verify faces
The two provided faces is identical: False, with confidence: 0,10252

Chapter 2

Analysis | Description | Celebs | OCR | Thumbnail | Face verification | Similar face | Face grouping

Image 1

525a88e5-e77b-407c-ba1a-11e3ce162eda

Image 2

5a1cd2a8-e7e5-41ce-a96a-2fd8cb38c4a5

Image 3

d35187c4-9fb2-4dc0-90a6-04724e5cbcb0

Image 4

9fddf235-2dc5-4b5f-b7e3-561b5e203ace

Image 5

f4d805ac-0926-4af8-85a5-df86b0d97433

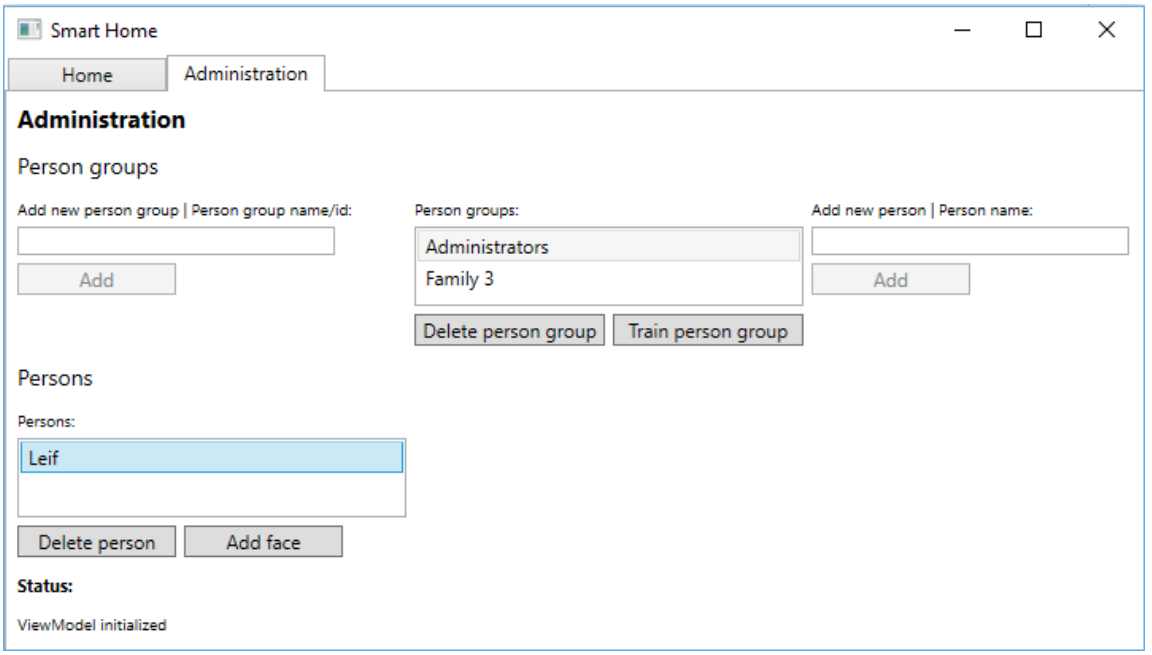
Image 6

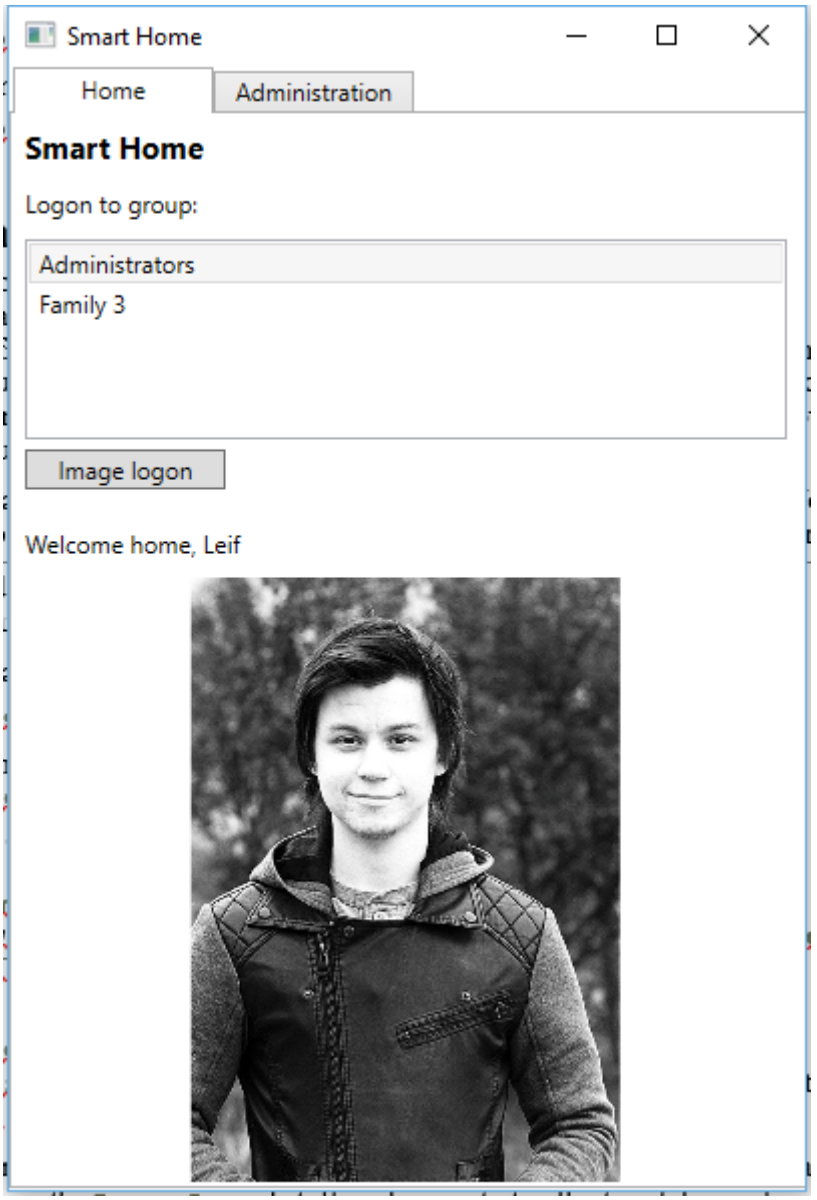
e199a798-38b8-4d1c-b1c4-b946d16048d7

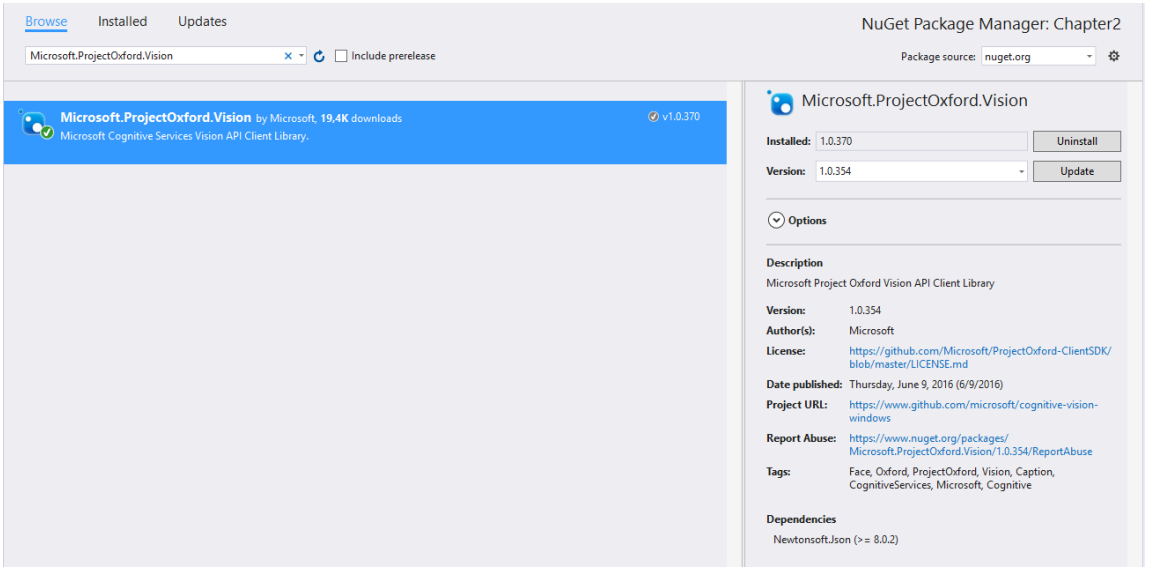
Group images

Face groups:

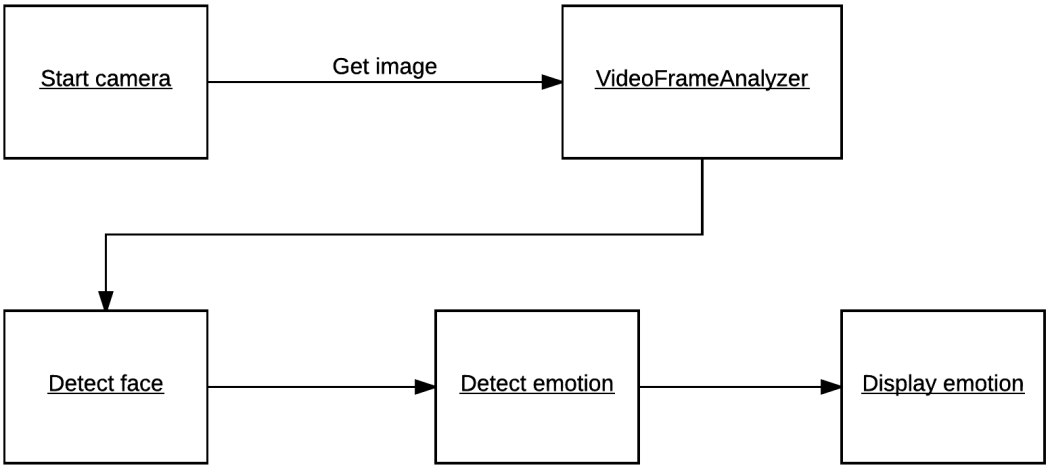
There are 2 group(s)
Groups: Image 4 - Image 6 -
Image 3 - Image 1 -
Messy group: Image 2 - Image 5 -

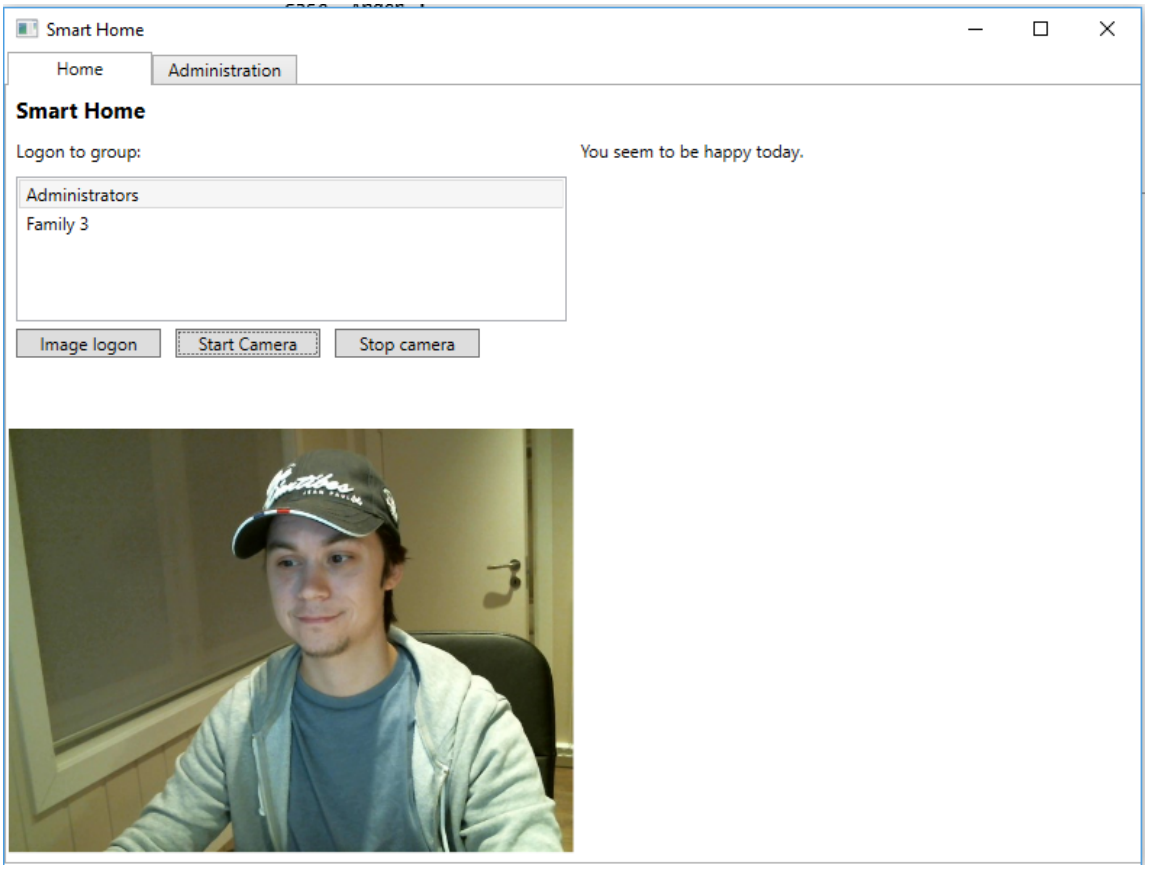

Smart Home
Home
Administration
Administration
Person groups
Add new person group | Person group name/id:
Add
Person groups:
Administrators
Family 3
Delete person group
Train person group
Add new person | Person name:
Add
Persons
Persons:
Leif
Delete person
Add face
Status:
ViewModel initialized

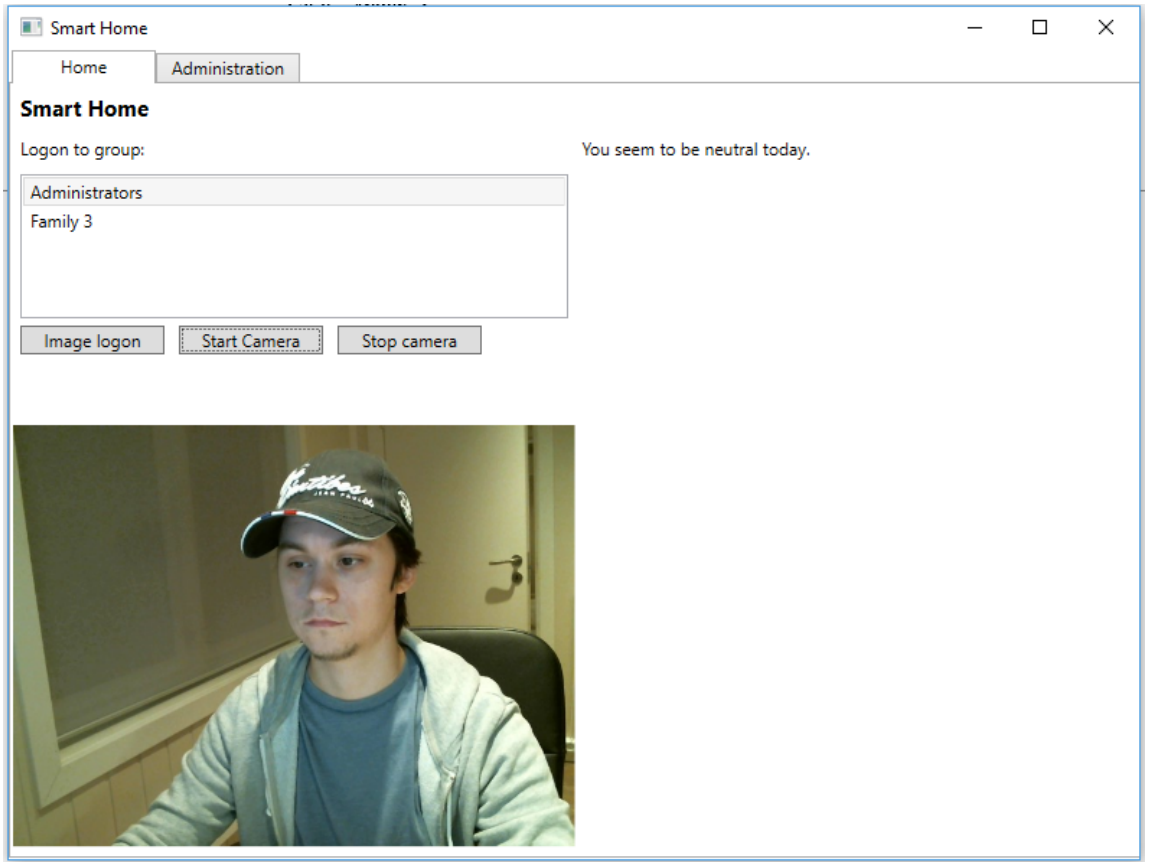

Smart Home
Home
Administration
Smart Home
Logon to group:
Administrators
Family 3
Image logon
Welcome home, Leif

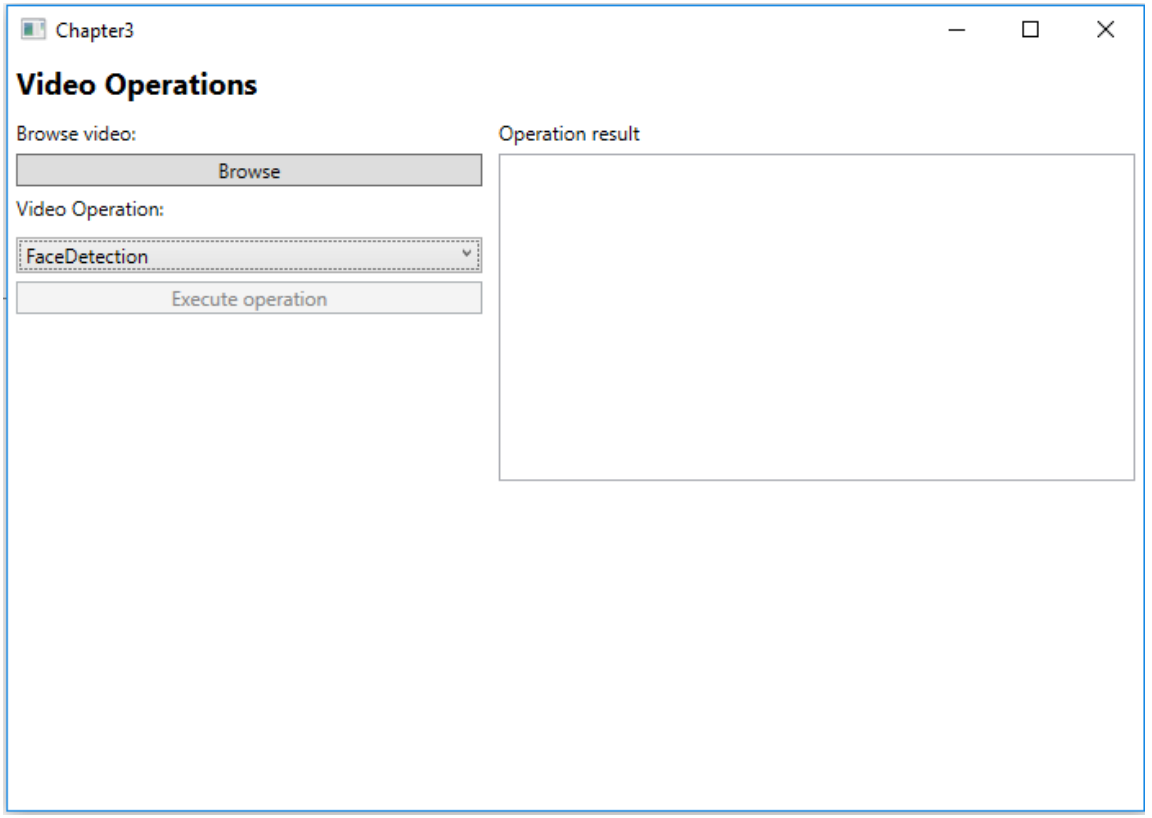

Browse
Installed
Updates
NuGet Package Manager: Chapter2
Microsoft.ProjectOxford.Vision
Include prerelease
Package source:
nuget.org
Microsoft.ProjectOxford.Vision by Microsoft, 19,4K downloads
Microsoft Cognitive Services Vision API Client Library.
v1.0.370
Microsoft.ProjectOxford.Vision
Installed:
1.0.370
Uninstall
Version:
1.0.354
Update
Options
Description
Microsoft Project Oxford Vision API Client Library
Version:
1.0.354
Author(s):
Microsoft
License:
https://github.com/Microsoft/ProjectOxford-ClientSDK/blob/master/LICENSE.md
Date published:
Thursday, June 9, 2016 (6/9/2016)
Project URL:
https://www.github.com/microsoft/cognitive-vision-windows
Report Abuse:
https://www.nuget.org/packages/Microsoft.ProjectOxford.Vision/1.0.354/ReportAbuse
Tags:
Face, Oxford, ProjectOxford, Vision, Caption, CognitiveServices, Microsoft, Cognitive
Dependencies
Newtonsoft.Json (>= 8.0.2)

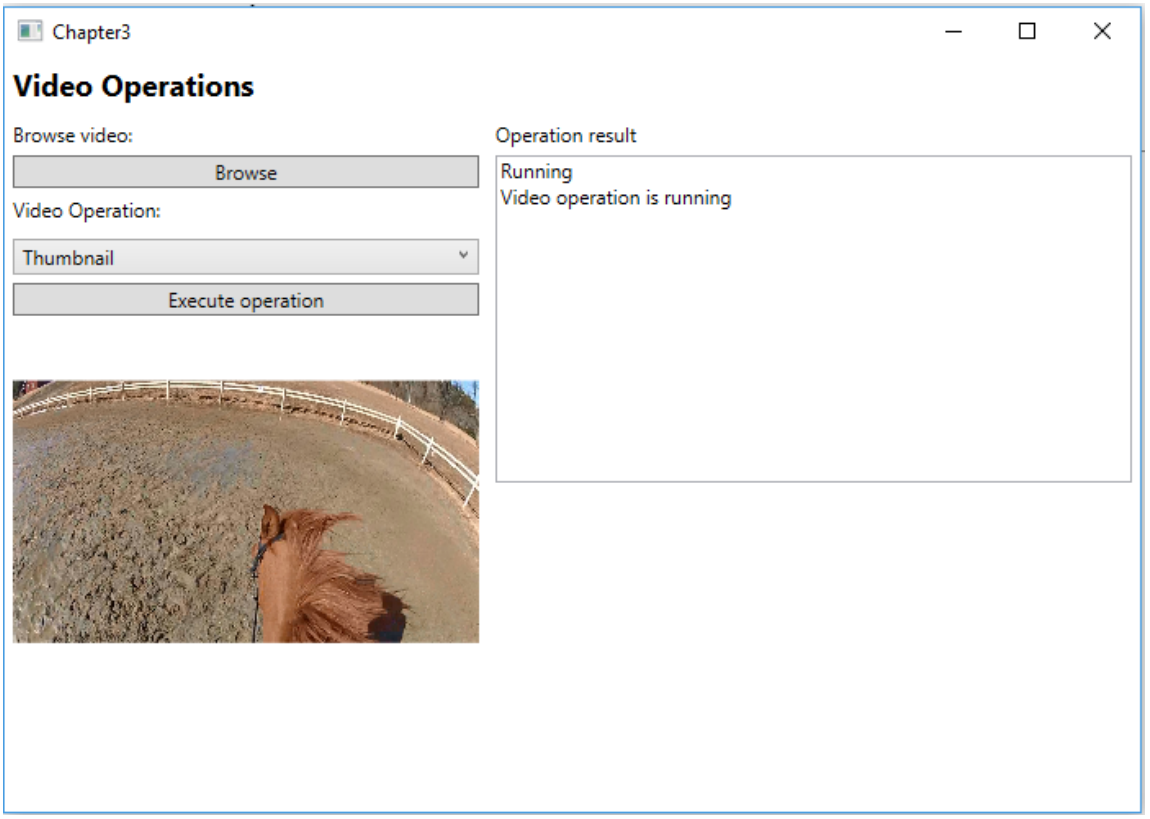
Chapter 3: Analyzing Videos

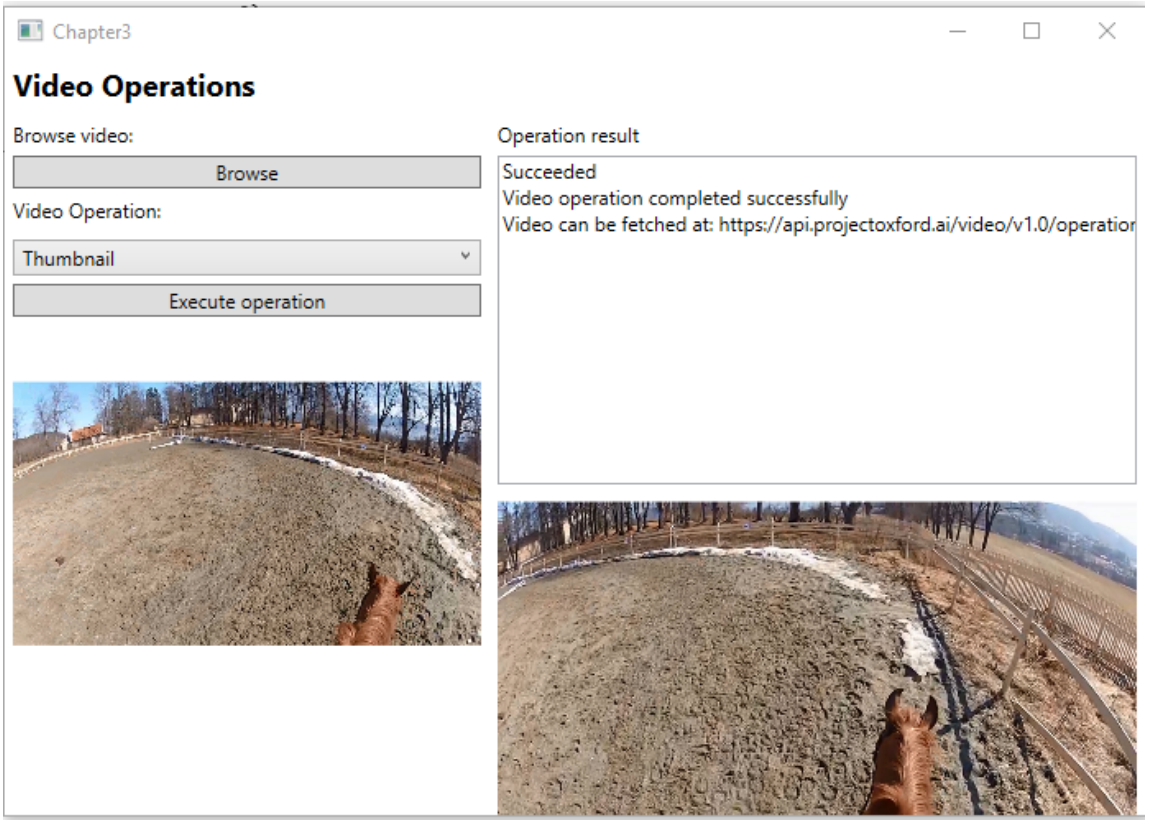


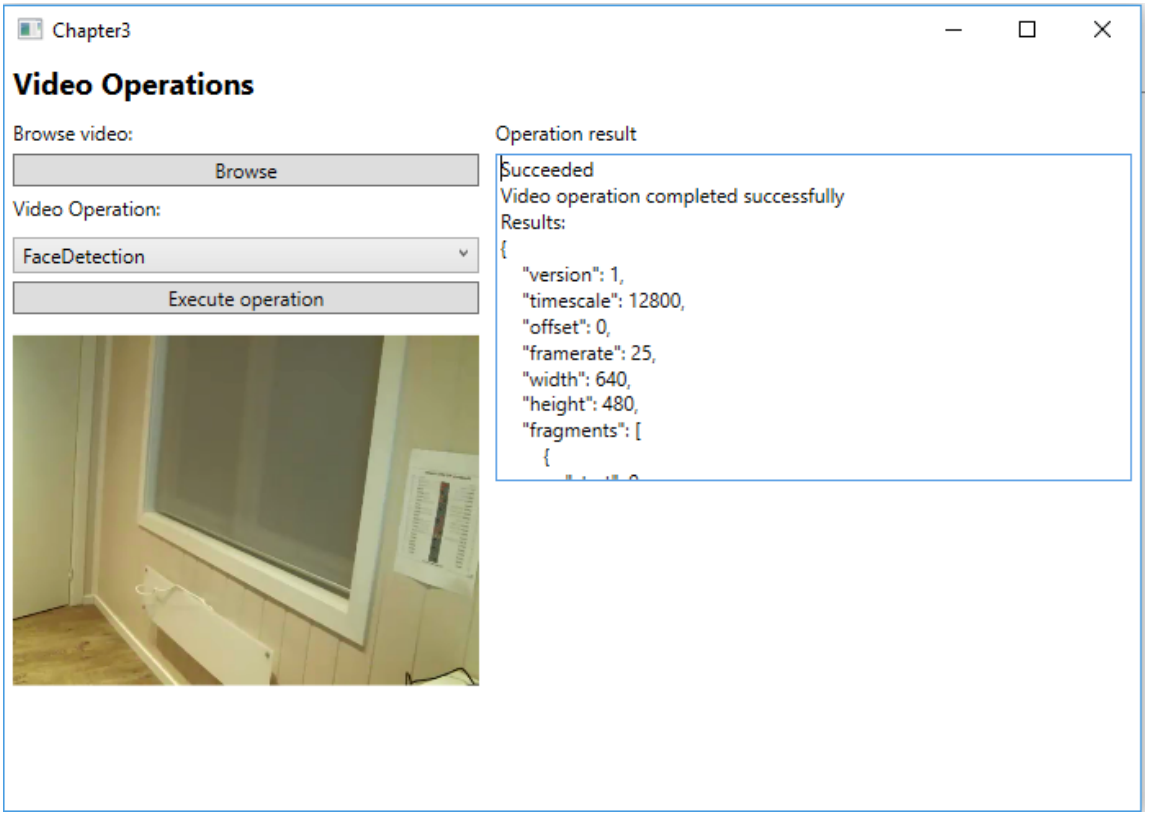

Smart Home
Home
Administration
Smart Home
Logon to group:
Administrators
Family 3
Image logon
Start Camera
Stop camera
You seem to be happy today.

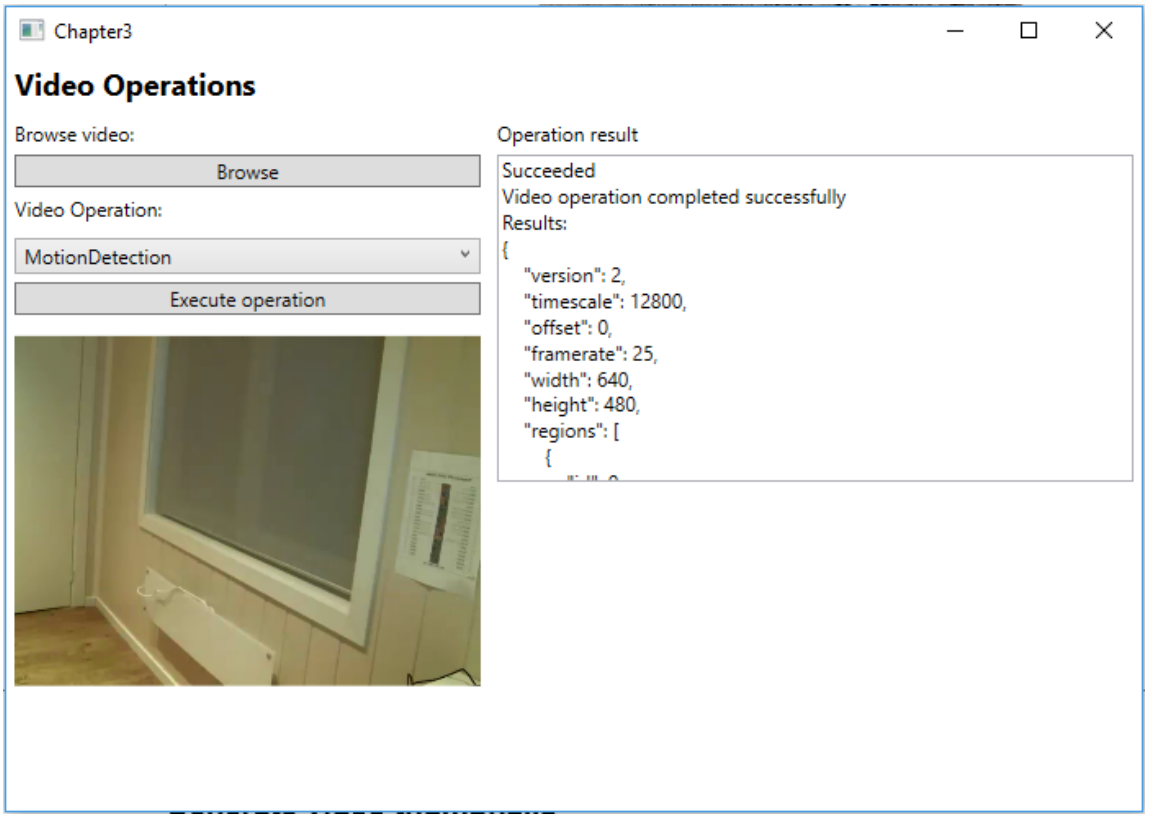

Smart Home
Home
Administration
Smart Home
Logon to group:
Administrators
Family 3
You seem to be neutral today.
Image logon
Start Camera
Stop camera

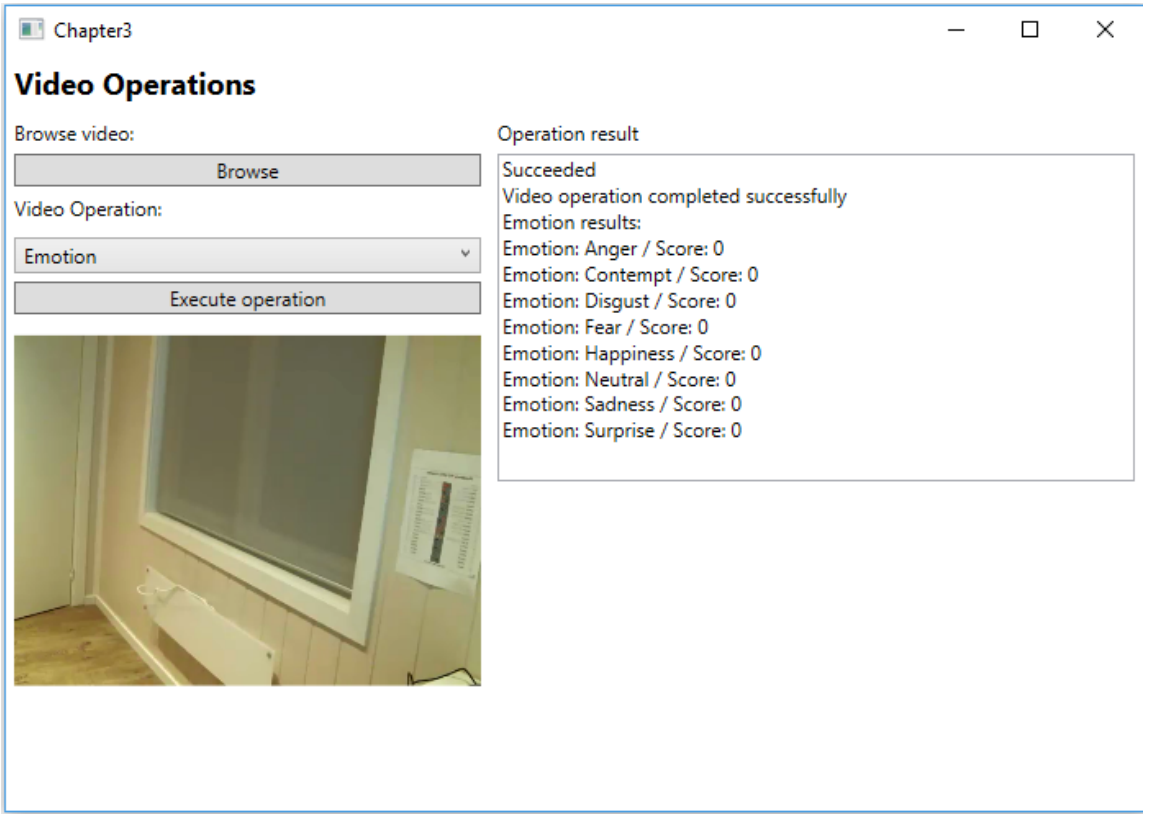

Chapter3
Video Operations
Browse video:
Browse
Video Operation:
FaceDetection
Execute operation
Operation result


Chapter3
Video Operations
Browse video:
Browse
Video Operation:
Thumbnail
Execute operation
Operation result
Running
Video operation is running

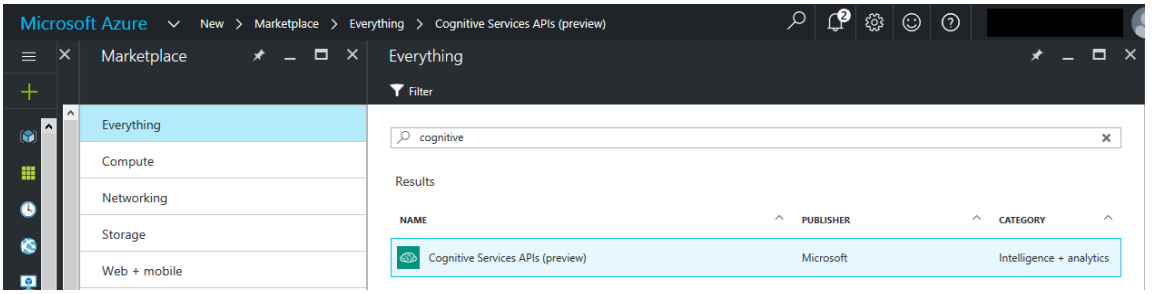

Chapter3
Video Operations
Browse video:
Browse
Video Operation:
Thumbnail
Execute operation
Operation result
Succeeded
Video operation completed successfully
Video can be fetched at: https://api.projectoxford.ai/video/v1.0/operatior

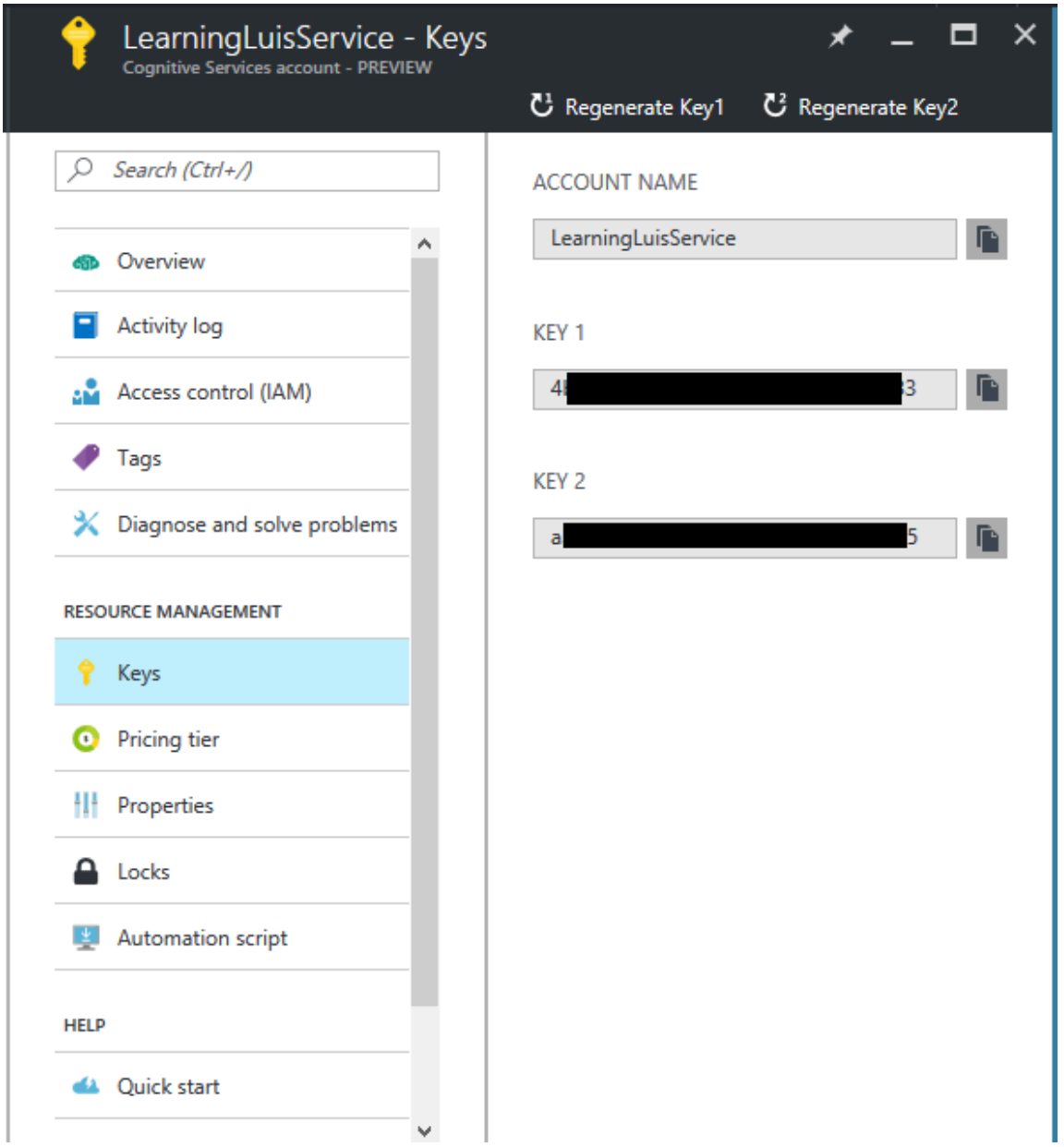

Chapter3
Video Operations
Browse video:
Browse
Video Operation:
FaceDetection
Execute operation
Operation result
Succeeded
Video operation completed successfully
Results:
{
"version": 1,
"timescale": 12800,
"offset": 0,
"framerate": 25,
"width": 640,
"height": 480,
"fragments": [
{

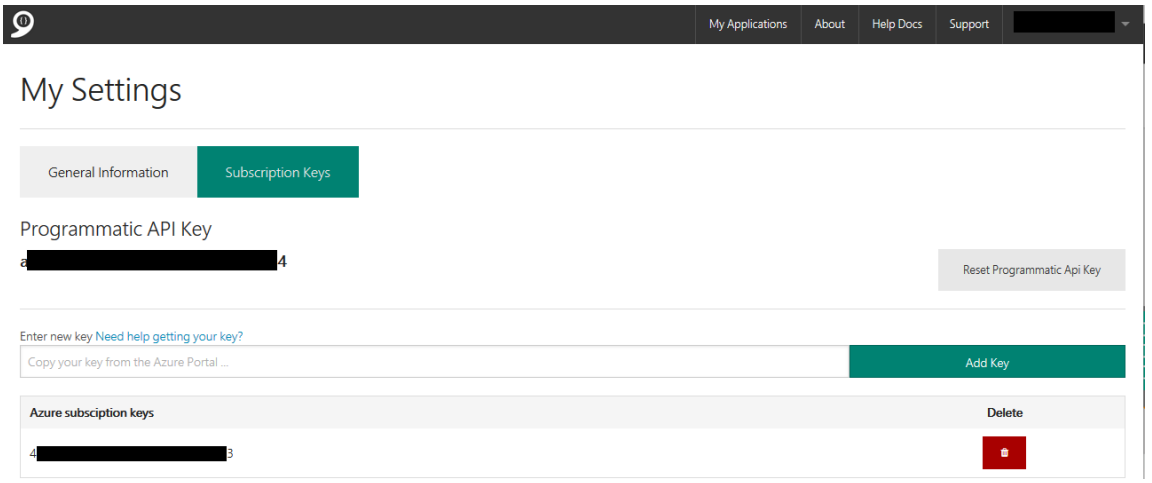

Chapter3
Video Operations
Browse video:
Browse
Video Operation:
MotionDetection
Execute operation
Operation result
Succeeded
Video operation completed successfully
Results:
{
"version": 2,
"timescale": 12800,
"offset": 0,
"framerate": 25,
"width": 640,
"height": 480,
"regions": [
{

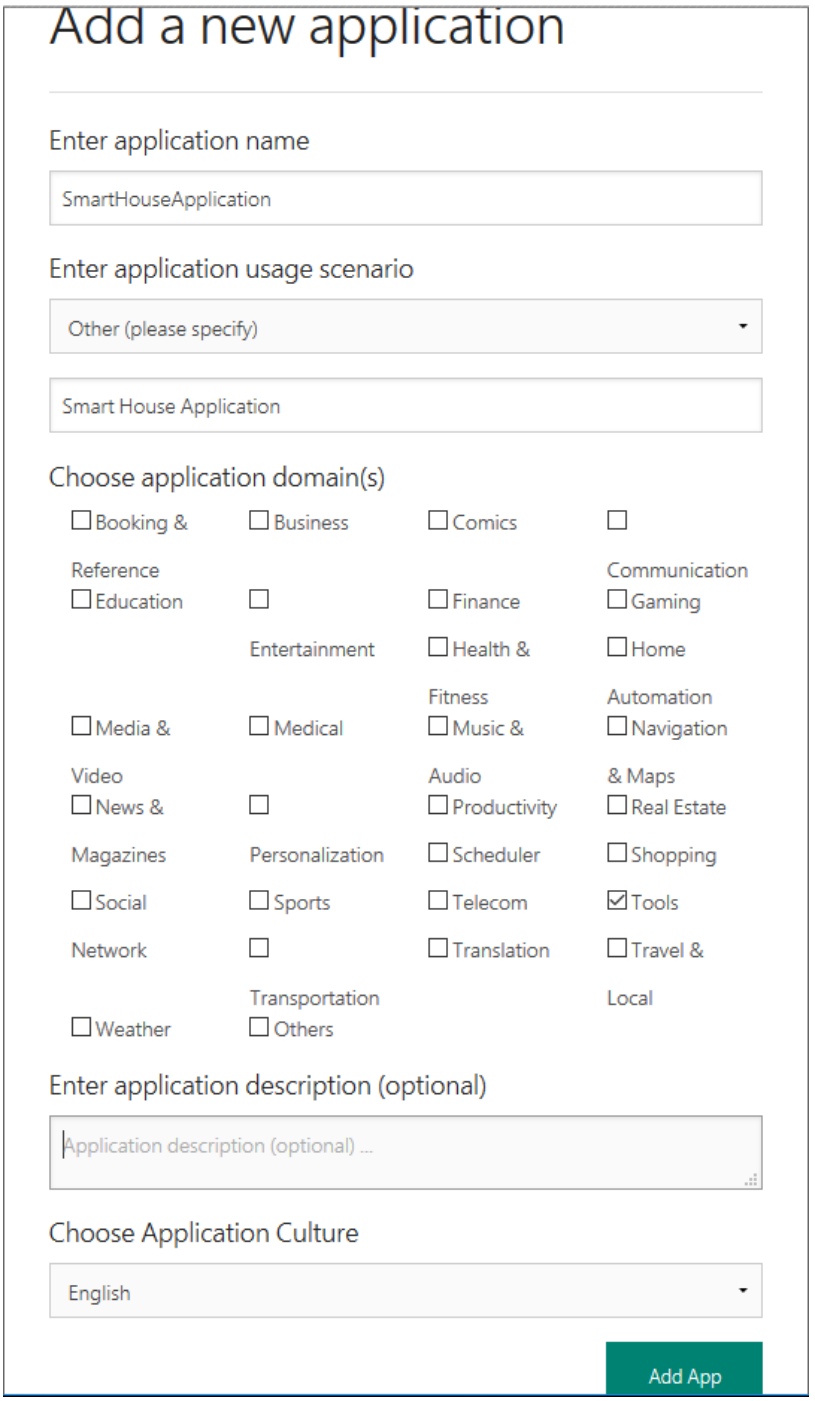

Chapter3
Video Operations
Browse video:
Browse
Video Operation:
Emotion
Execute operation
Operation result
Succeeded
Video operation completed successfully
Emotion results:
Emotion: Anger / Score: 0
Emotion: Contempt / Score: 0
Emotion: Disgust / Score: 0
Emotion: Fear / Score: 0
Emotion: Happiness / Score: 0
Emotion: Neutral / Score: 0
Emotion: Sadness / Score: 0
Emotion: Surprise / Score: 0

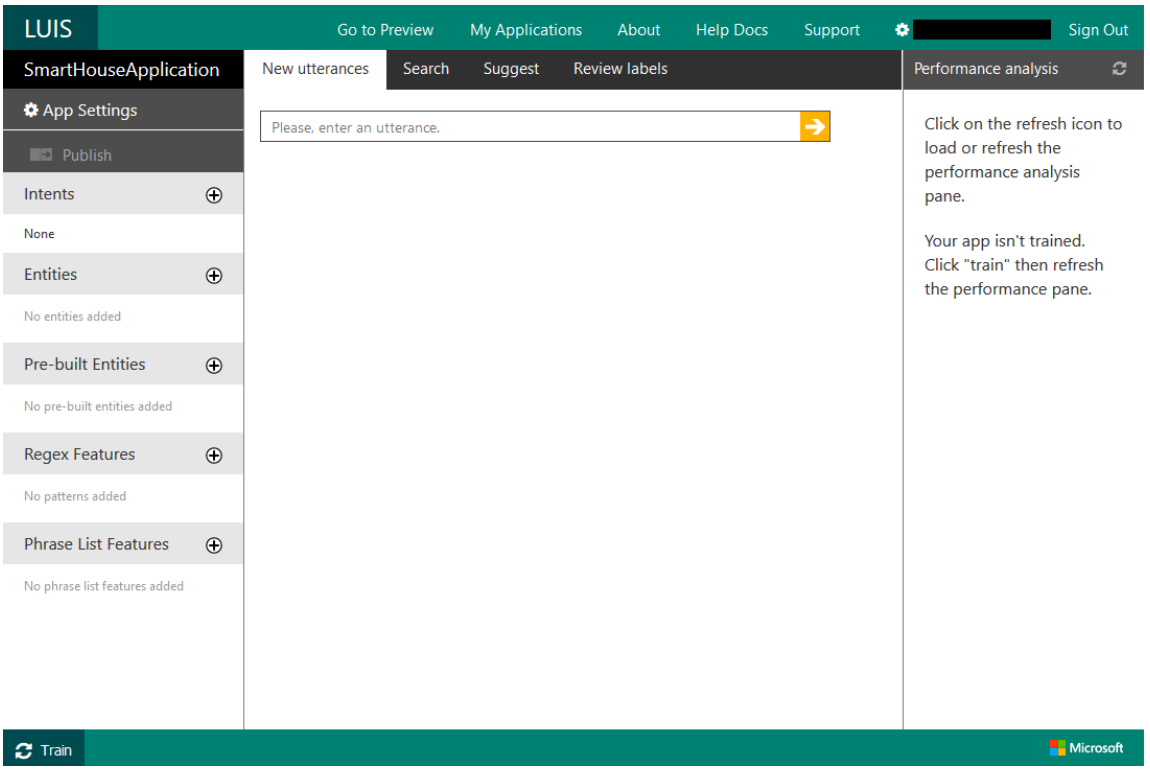
Chapter 4: Letting Applications Understand Commands

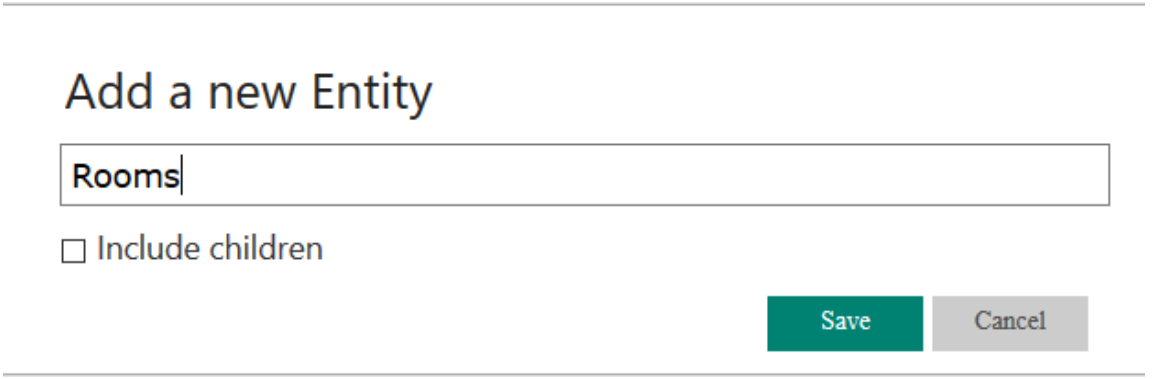


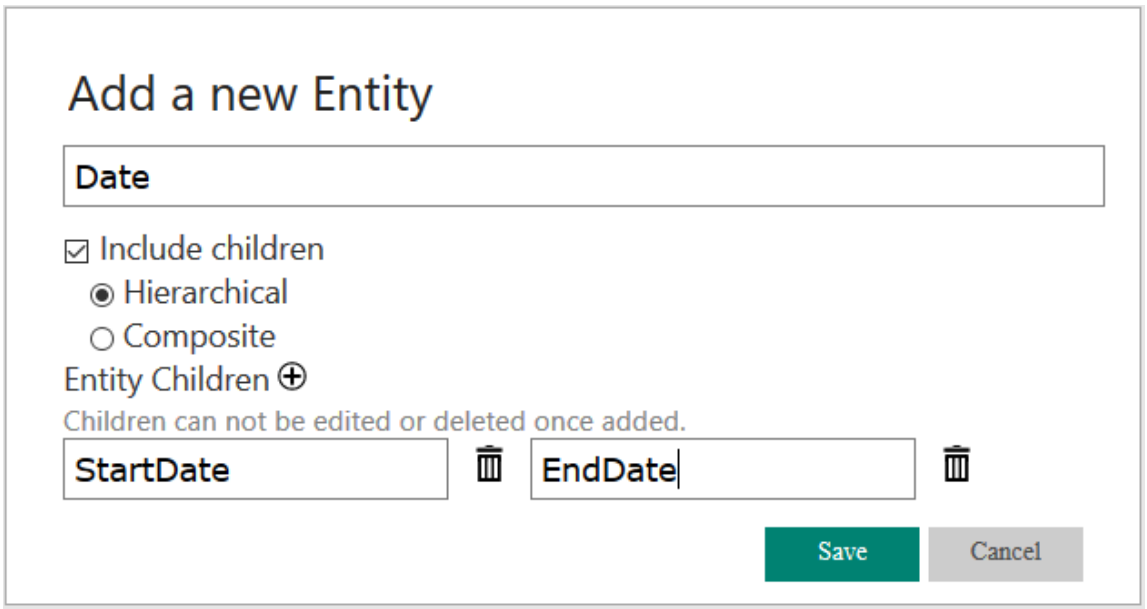

LearningLuisService - Keys
Cognitive Services account - PREVIEW
Regenerate Key1
Regenerate Key2
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
RESOURCE MANAGEMENT
Keys
Pricing tier
Properties
Locks
Automation script
HELP
Quick start
ACCOUNT NAME
LearningLuisService
KEY 1
KEY 2

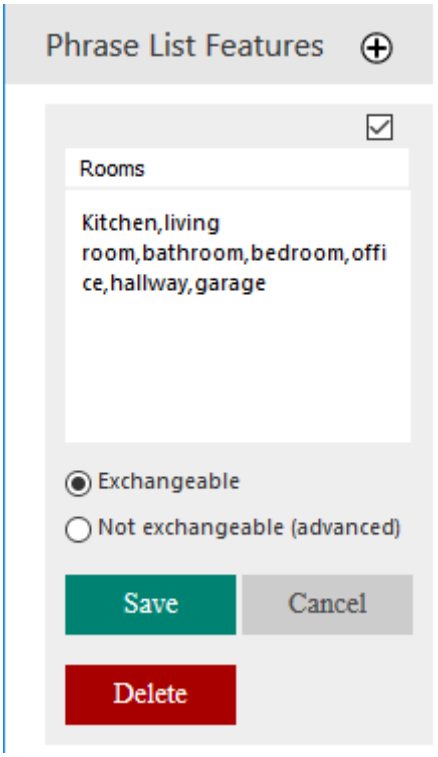

My Applications
About
Help Docs
Support
[redacted]
My Settings
General Information
Subscription Keys
Programmatic API Key
a[redacted]4
Reset Programmatic Api Key
Enter new key Need help getting your key?
Copy your key from the Azure Portal ...
Add Key
Azure subsciption keys
Delete
4[redacted]3

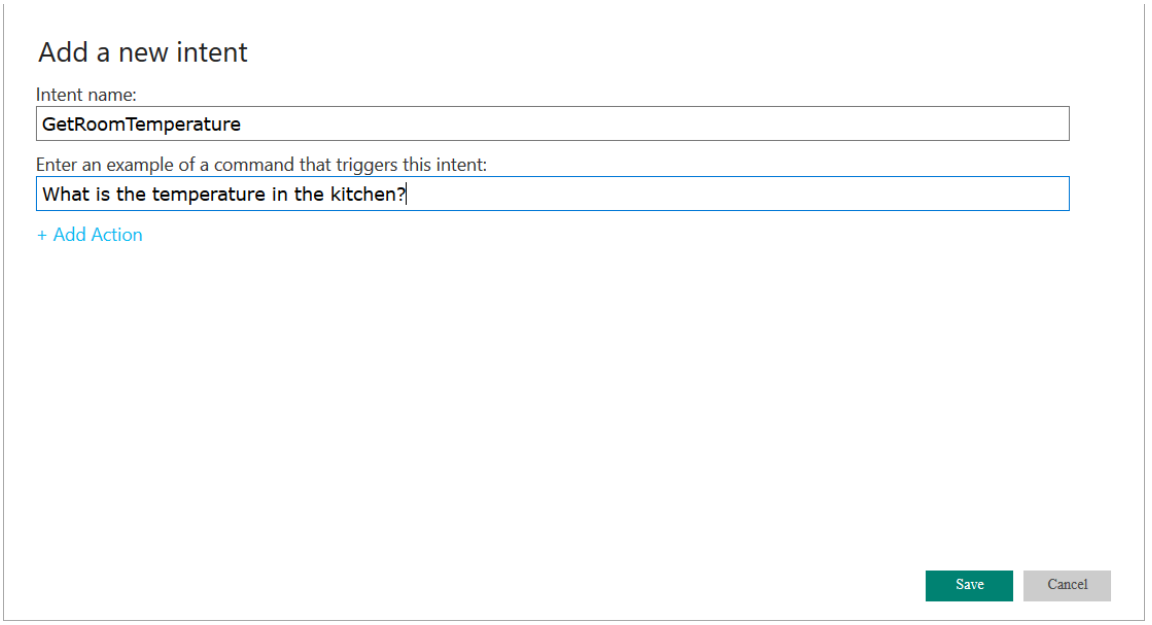

Add a new application
Enter application name
SmartHouseApplication
Enter application usage scenario
Other (please specify)
Smart House Application
Choose application domain(s)
Booking & Reference
Business
Comics
Communication
Education
Entertainment
Finance
Gaming
Health & Fitness
Home Automation
Media & Video
Medical
Music & Audio
Navigation & Maps
News & Magazines
Personalization
Productivity
Real Estate
Scheduler
Shopping
Social Network
Sports
Telecom
Tools
Translation
Travel & Local
Weather
Transportation
Others
Enter application description (optional)
Application description (optional) ...
Choose Application Culture
English
Add App

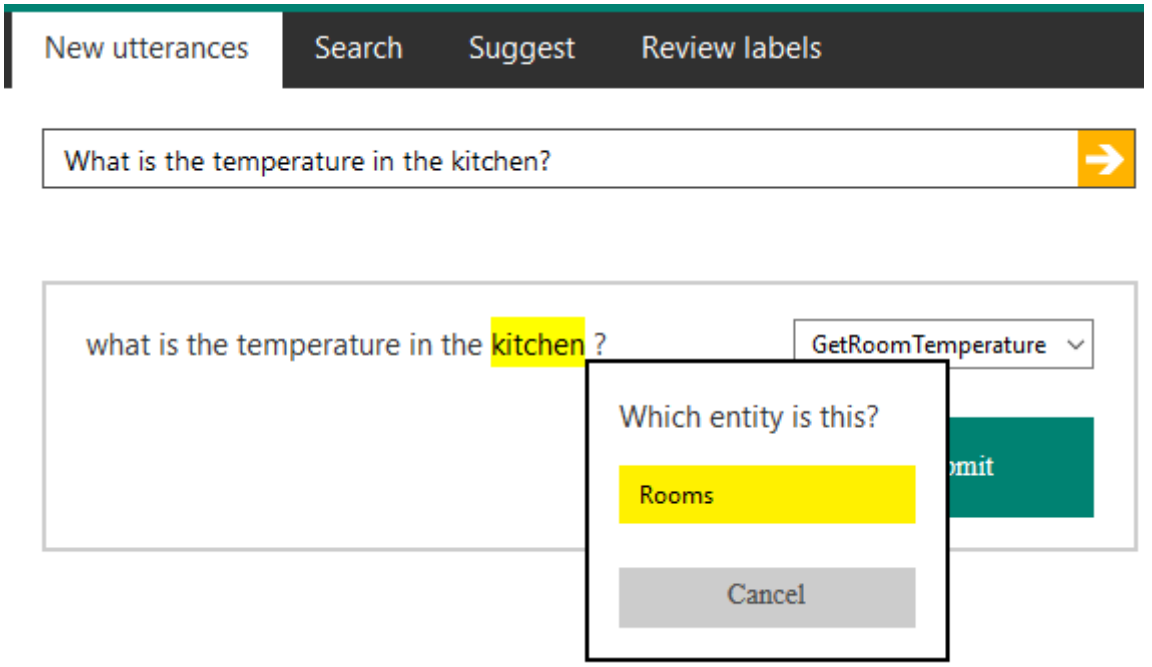

LUIS
Go to Preview
My Applications
About
Help Docs
Support
Sign Out
SmartHouseApplication
New utterances
Search
Suggest
Review labels
Performance analysis
App Settings
Publish
Intents
None
Entities
No entities added
Pre-built Entities
No pre-built entities added
Regex Features
No patterns added
Phrase List Features
No phrase list features added
Please, enter an utterance.
Click on the refresh icon to load or refresh the performance analysis pane.
Your app isn't trained. Click "train" then refresh the performance pane.
Train
Microsoft

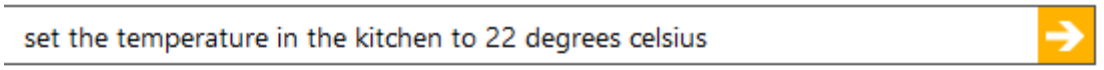

Add a new Entity
Rooms
Include children
Save
Cancel

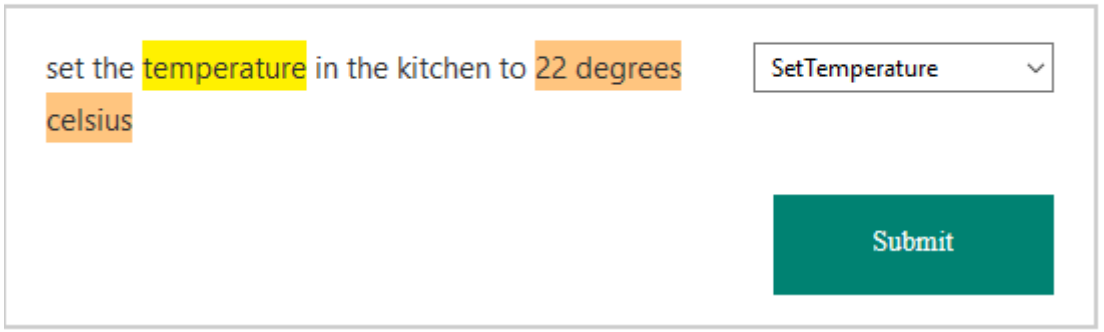

Add a new Entity
Date
Include children
Hierarchical
Composite
Entity Children
Children can not be edited or deleted once added.
StartDate
EndDate
Save
Cancel

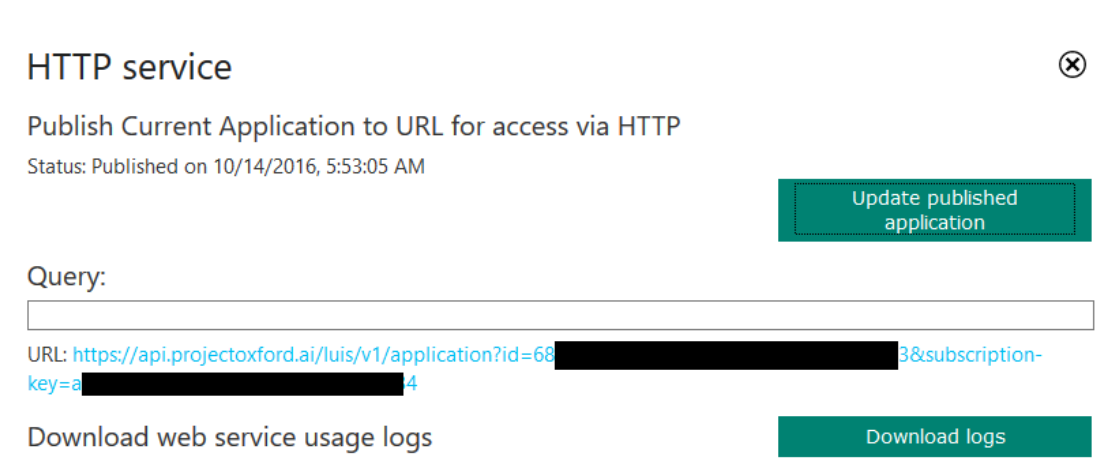

Phrase List Features
Rooms
Kitchen,living room,bathroom,bedroom,office,hallway,garage
Exchangeable
Not exchangeable (advanced)
Save
Cancel
Delete


Add a new intent
Intent name:
GetRoomTemperature
Enter an example of a command that triggers this intent:
What is the temperature in the kitchen?
+ Add Action
Save
Cancel

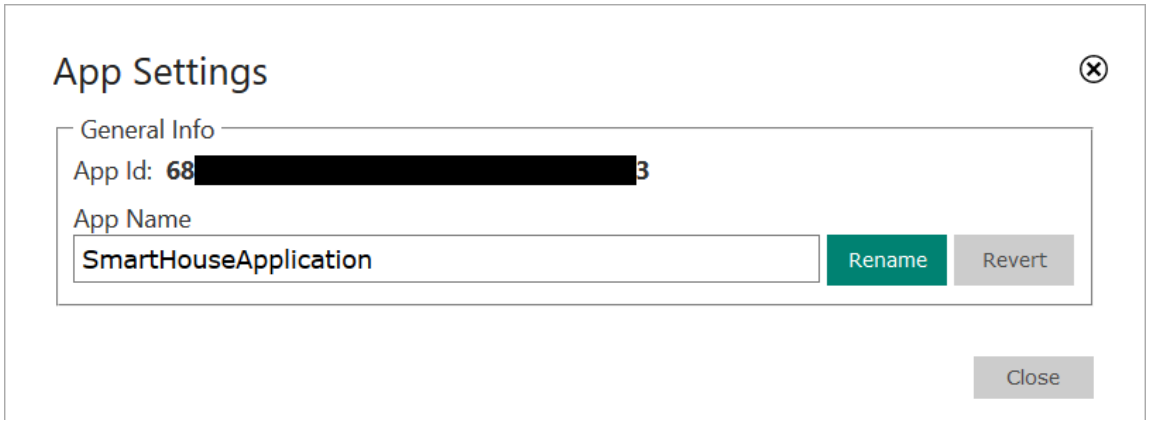

New utterances
Search
Suggest
Review labels
What is the temperature in the kitchen?
what is the temperature in the kitchen ?
GetRoomTemperature
Which entity is this?
Rooms
Cancel

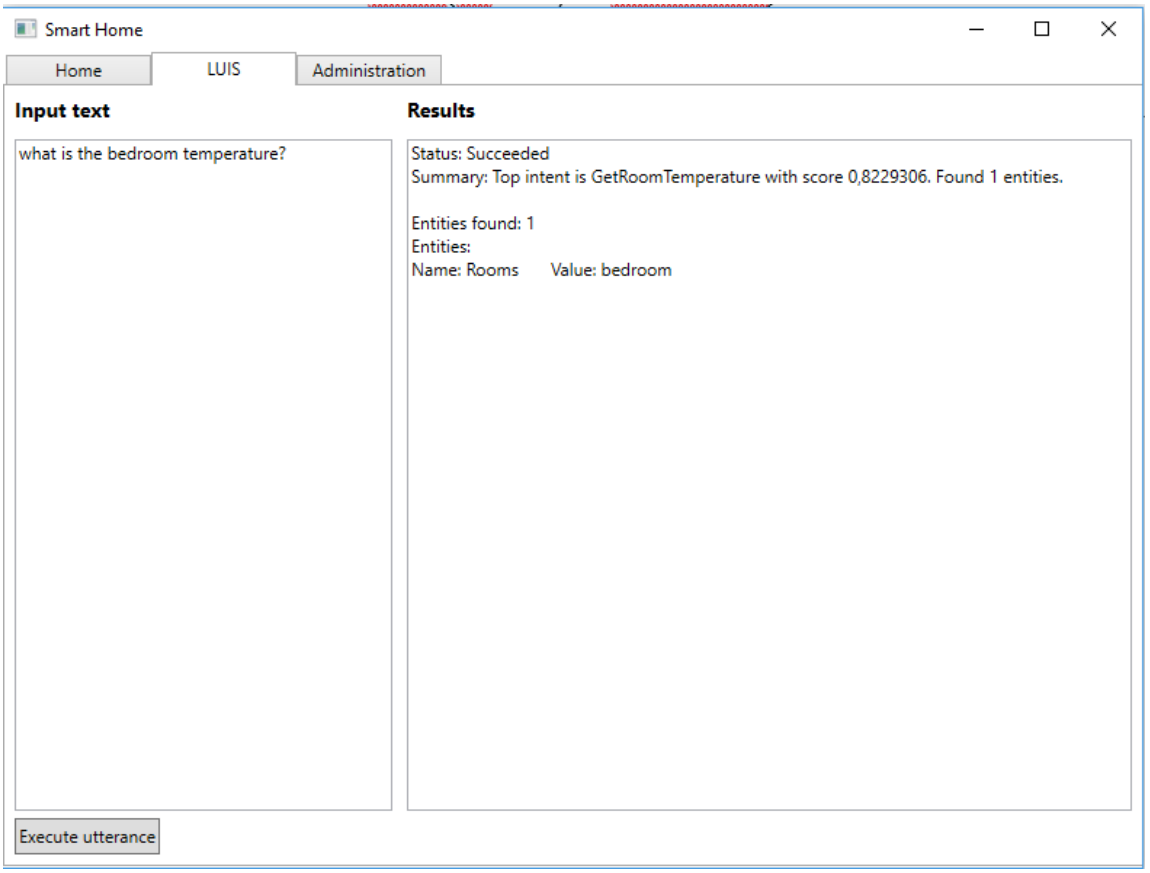

set the temperature in the kitchen to 22 degrees celsius

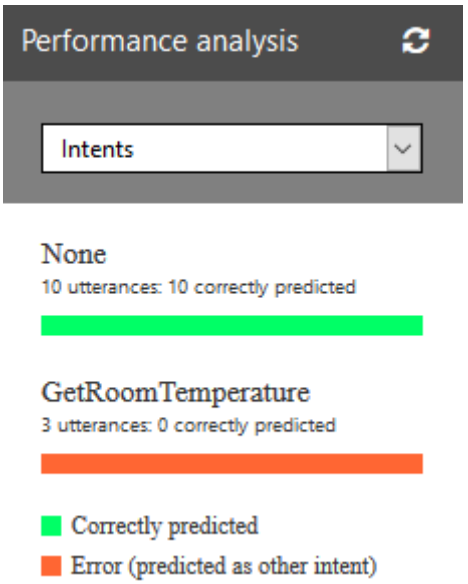

set the temperature in the kitchen to 22 degrees celsius
SetTemperature
Submit


HTTP service
Publish Current Application to URL for access via HTTP
Status: Published on 10/14/2016, 5:53:05 AM
Update published application
Query:
URL: https://api.projectoxford.ai/luis/v1/application?id=68[redacted]3&subscription-key=a[redacted]4
Download web service usage logs
Download logs

```
{
  "query": "get the bedroom temperature",
  "intents": [
    {
      "intent": "GetRoomTemperature",
      "score": 0.846428752,
      "actions": [
        {
          "triggered": true,
          "name": "GetRoomTemperature",
          "parameters": [
            {
              "name": "Room",
              "required": true,
              "value": [
                {
                  "entity": "bedroom",
                  "type": "Rooms",
                  "score": 0.963398457
                }
              ]
            }
          ]
        }
      ]
    },
```

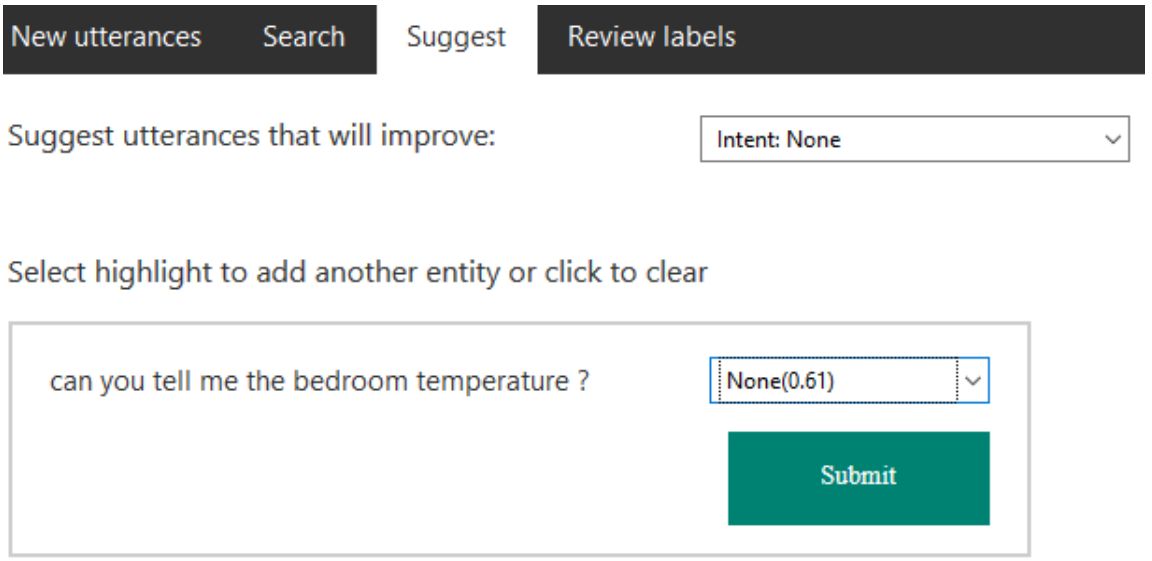




Smart Home
Home
LUIS
Administration
Input text
what is the bedroom temperature?
Results
Status: Succeeded
Summary: Top intent is GetRoomTemperature with score 0,8229306. Found 1 entities.
Entities found: 1
Entities:
Name: Rooms Value: bedroom
Execute utterance



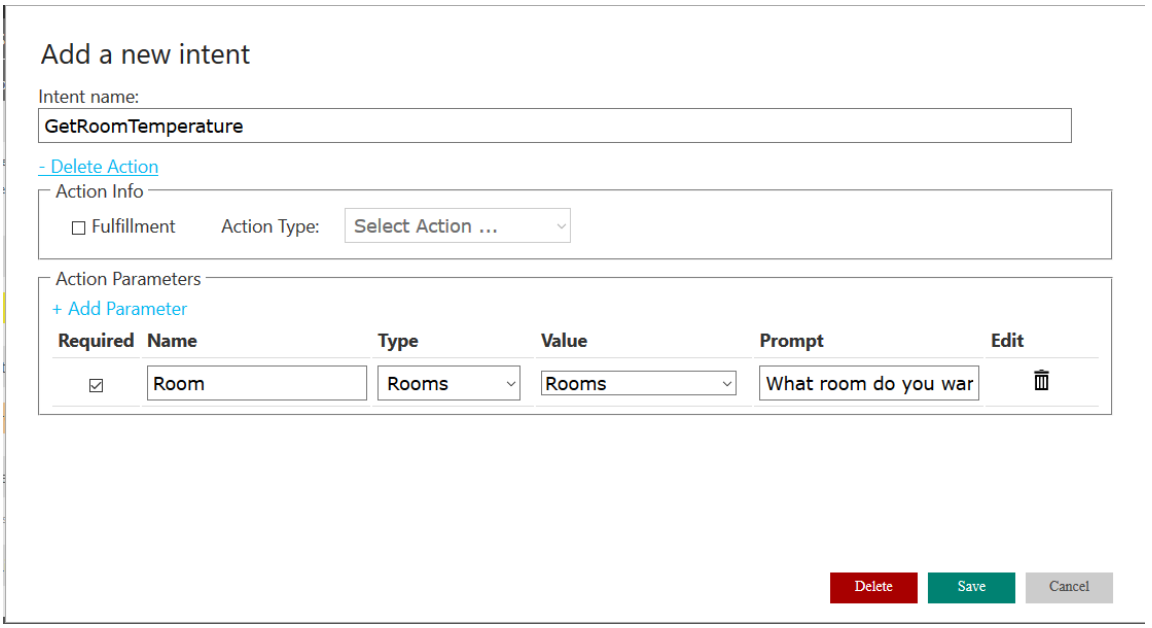
Watch 1

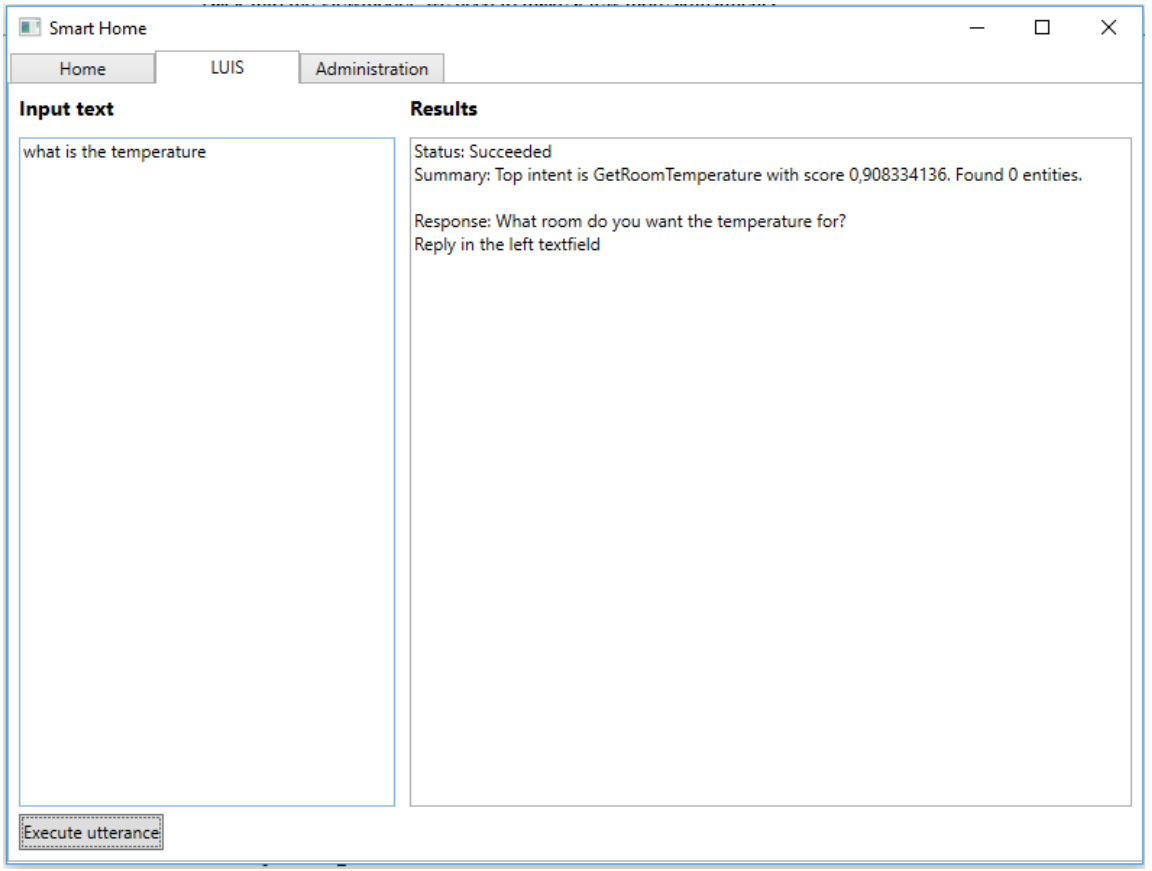
Name	Value
result	{Microsoft.Cognitive.LUIS.LuisResult}
DialogResponse	null
Entities	Count = 0
Raw View	
Intents	{Microsoft.Cognitive.LUIS.Intent[3]}
[0]	{Microsoft.Cognitive.LUIS.Intent}
[1]	{Microsoft.Cognitive.LUIS.Intent}
[2]	{Microsoft.Cognitive.LUIS.Intent}
OriginalQuery	"can you tell me the bedroom temperature?"
Reply	{Method = {Microsoft.Cognitive.LUIS.LuisResult <.ctor>b__0(System.String)}}
TopScoringIntent	{Microsoft.Cognitive.LUIS.Intent}
Actions	{Microsoft.Cognitive.LUIS.Action[0]}
Name	"None"
Score	0.6122963

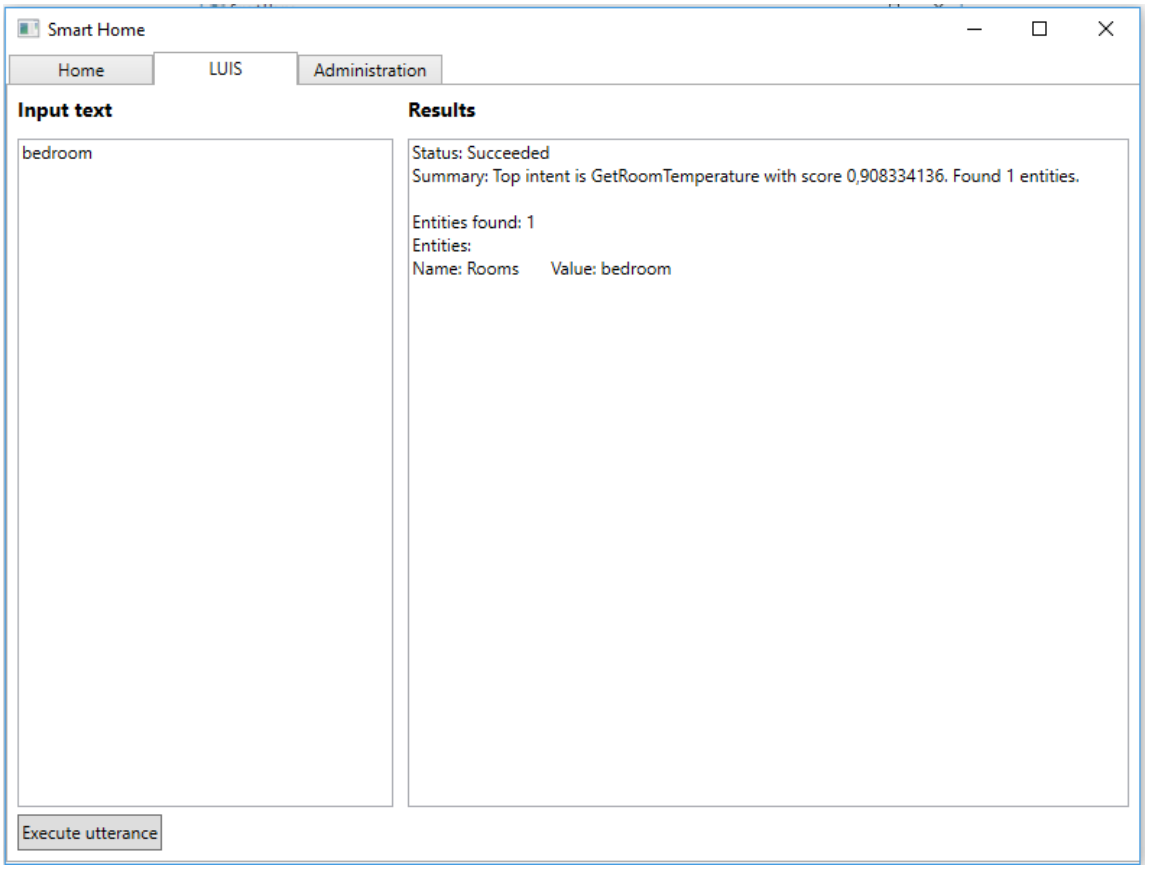


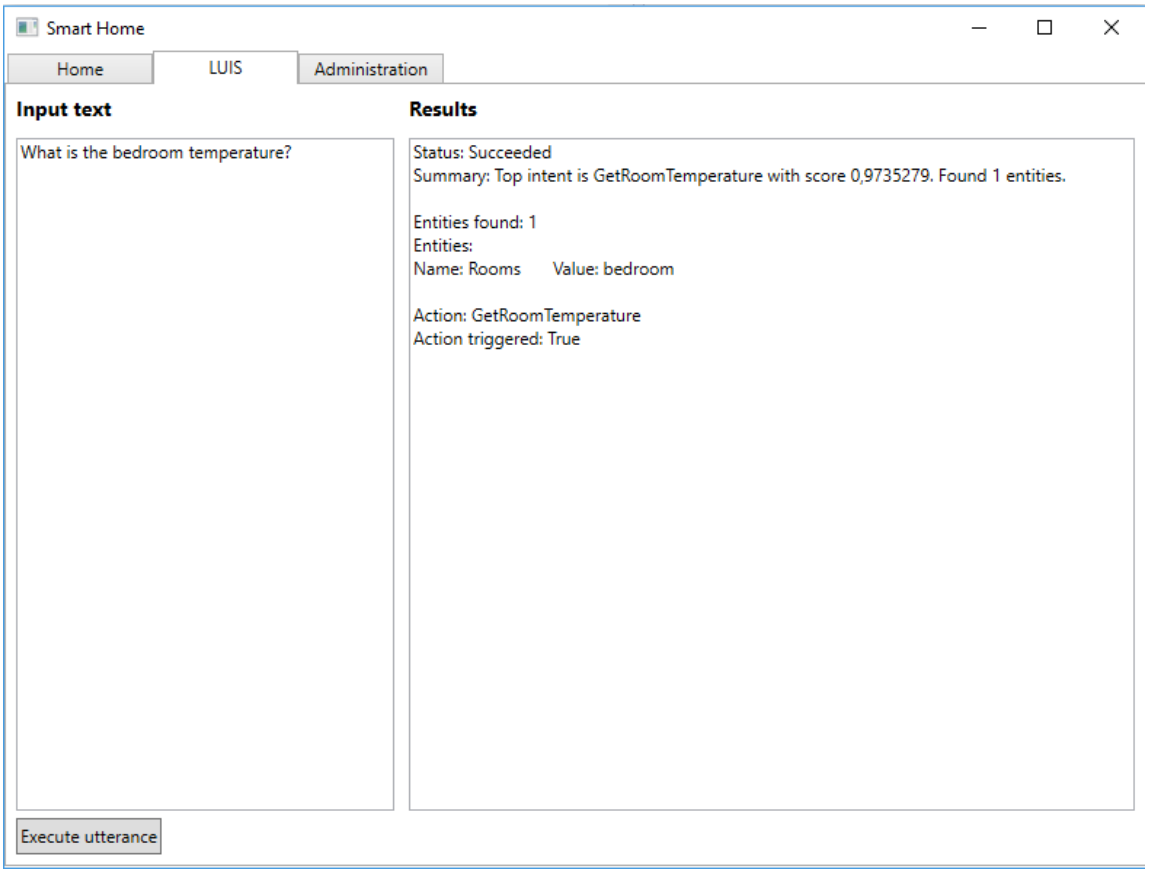
Watch 1

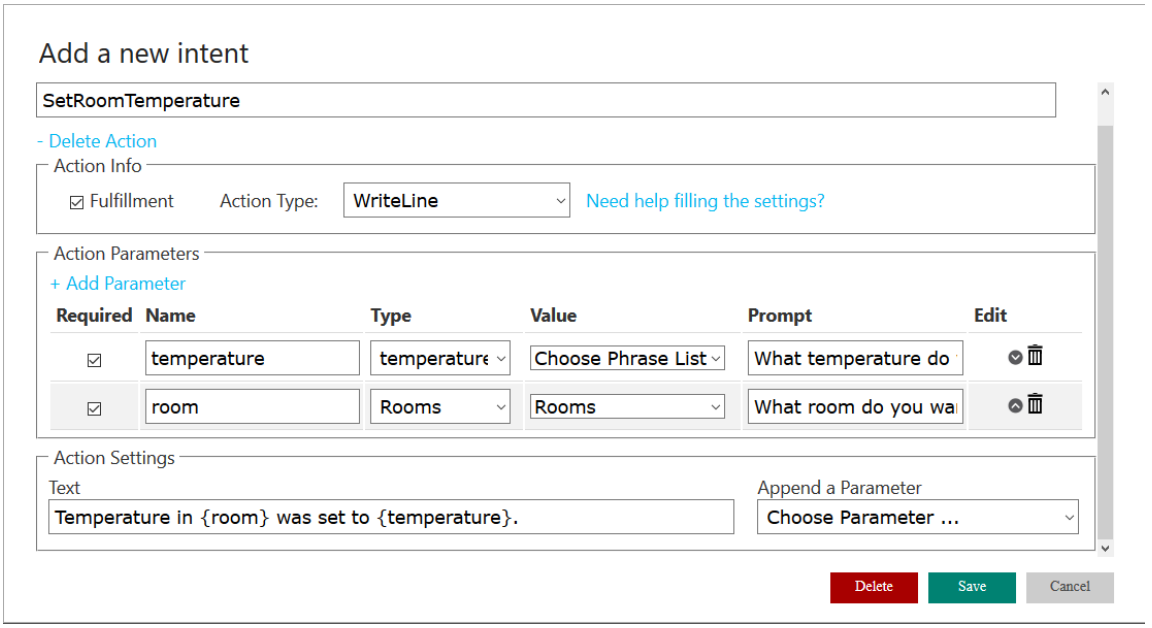
Name	Value
result	{Microsoft.Cognitive.LUIS.LuisResult}
DialogResponse	null
Entities	Count = 1
[0]	{[Rooms, System.Collections.Generic.List`1[Microsoft.Cognitive.LUIS.Entity]]}
Key	"Rooms"
Value	Count = 1
[0]	{Microsoft.Cognitive.LUIS.Entity}
EndIndex	26
Name	"Rooms"
Resolution	Count = 0
Score	0.8959288
StartIndex	20
Value	"bedroom"
Raw View	
Non-Public members	
Raw View	
Intents	{Microsoft.Cognitive.LUIS.Intent[3]}
OriginalQuery	"can you tell me the bedroom temperature?"
Reply	{Method = {Microsoft.Cognitive.LUIS.LuisResult <.ctor>b__0(System.String)}}
TopScoringIntent	{Microsoft.Cognitive.LUIS.Intent}
Actions	{Microsoft.Cognitive.LUIS.Action[1]}
Name	"GetRoomTemperature"
Score	0.491344


Add a new intent
Intent name:
GetRoomTemperature
- Delete Action
Action Info
Fulfillment
Action Type:
Select Action ...
Action Parameters
+ Add Parameter
Required
Name
Type
Value
Prompt
Edit
Room
Rooms
Rooms
What room do you war
Delete
Save
Cancel

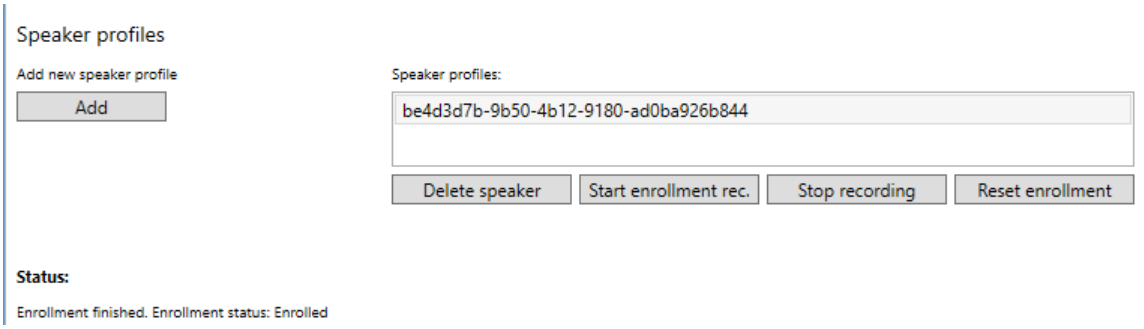

Smart Home
Home
LUIS
Administration
Input text
what is the temperature
Results
Status: Succeeded
Summary: Top intent is GetRoomTemperature with score 0,908334136. Found 0 entities.
Response: What room do you want the temperature for?
Reply in the left textfield
Execute utterance

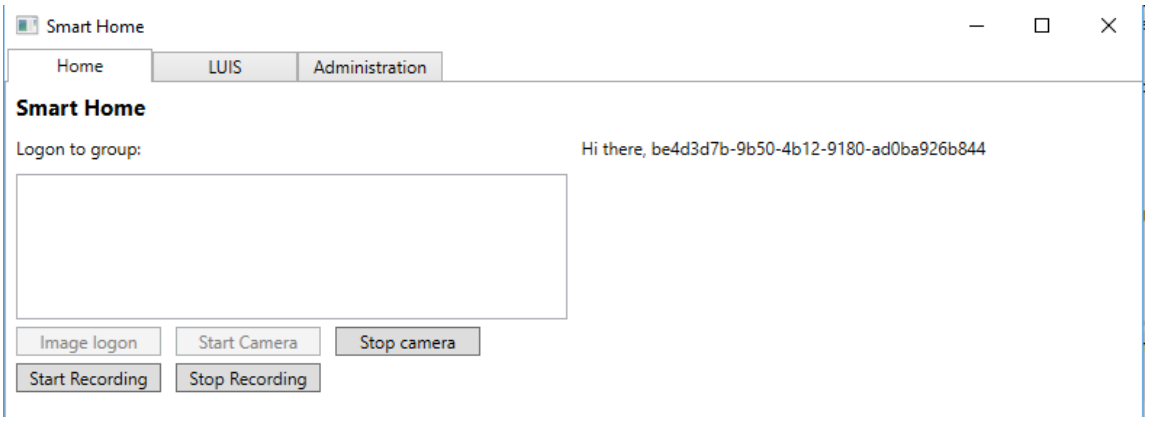

Smart Home
Home
LUIS
Administration
Input text
bedroom
Results
Status: Succeeded
Summary: Top intent is GetRoomTemperature with score 0,908334136. Found 1 entities.
Entities found: 1
Entities:
Name: Rooms Value: bedroom
Execute utterance

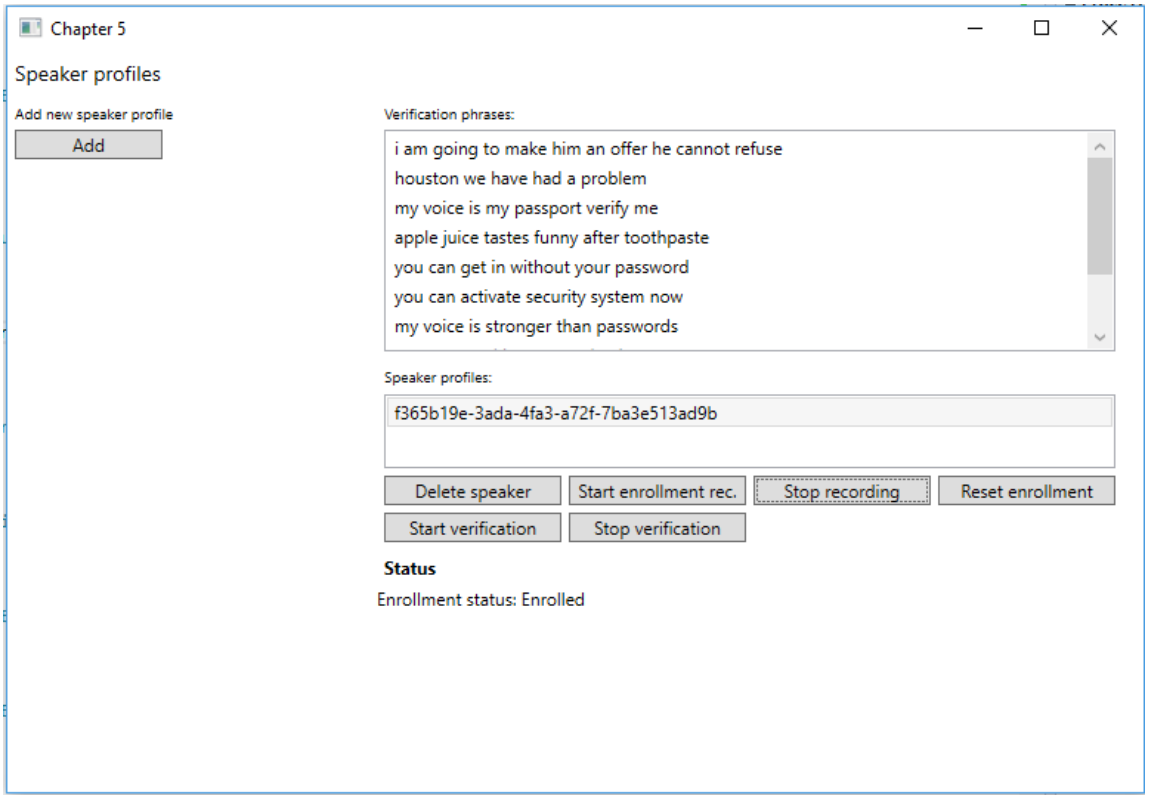

Smart Home
Home
LUIS
Administration
Input text
What is the bedroom temperature?
Results
Status: Succeeded
Summary: Top intent is GetRoomTemperature with score 0,9735279. Found 1 entities.
Entities found: 1
Entities:
Name: Rooms Value: bedroom
Action: GetRoomTemperature
Action triggered: True
Execute utterance

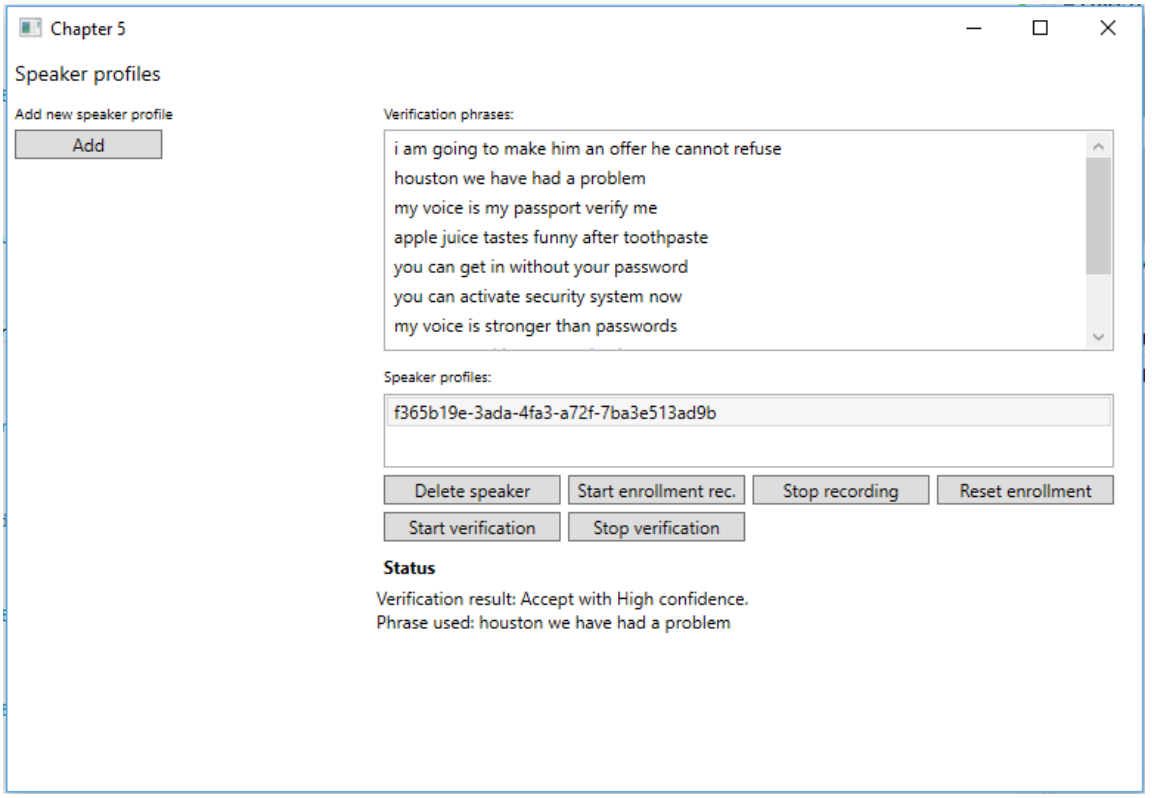

Add a new intent
SetRoomTemperature
- Delete Action
Action Info
Fulfillment
Action Type:
WriteLine
Need help filling the settings?
Action Parameters
+ Add Parameter
Required
Name
Type
Value
Prompt
Edit
temperature
temperature
Choose Phrase List
What temperature do
room
Rooms
Rooms
What room do you wa
Action Settings
Text
Temperature in {room} was set to {temperature}.
Append a Parameter
Choose Parameter ...
Delete
Save
Cancel

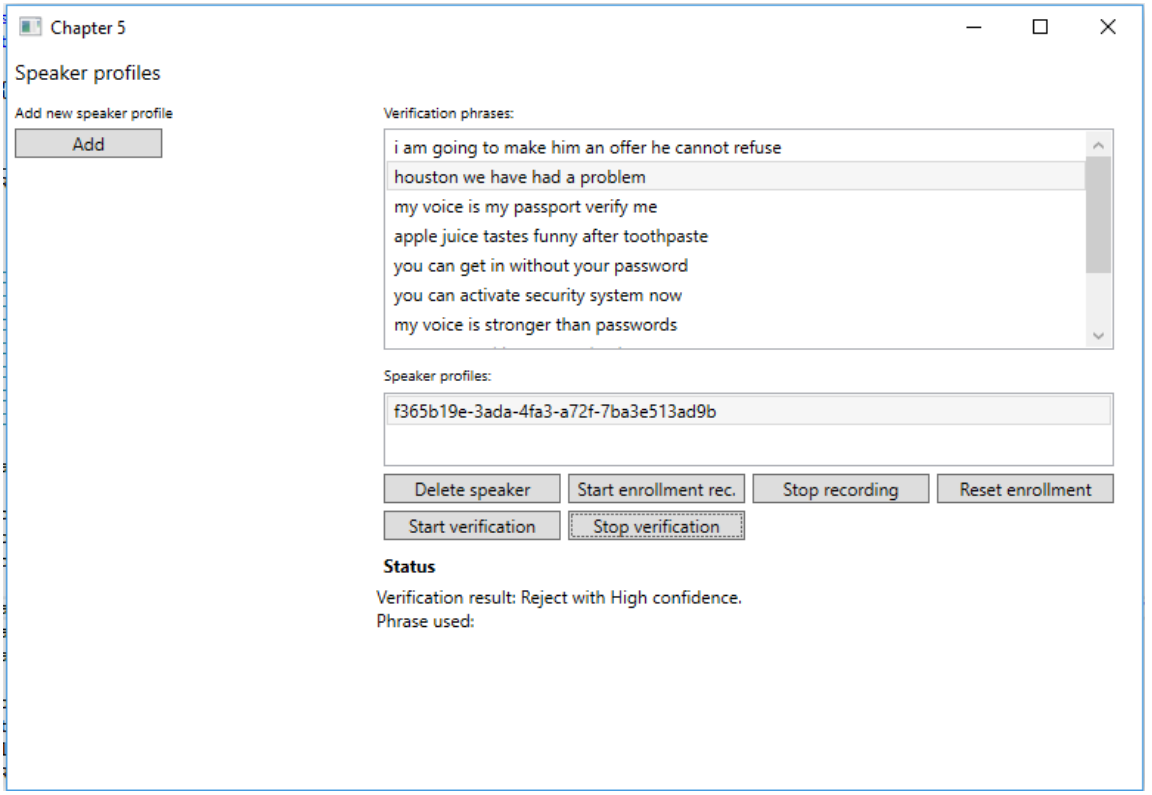
Chapter 5: Speak with Your Application



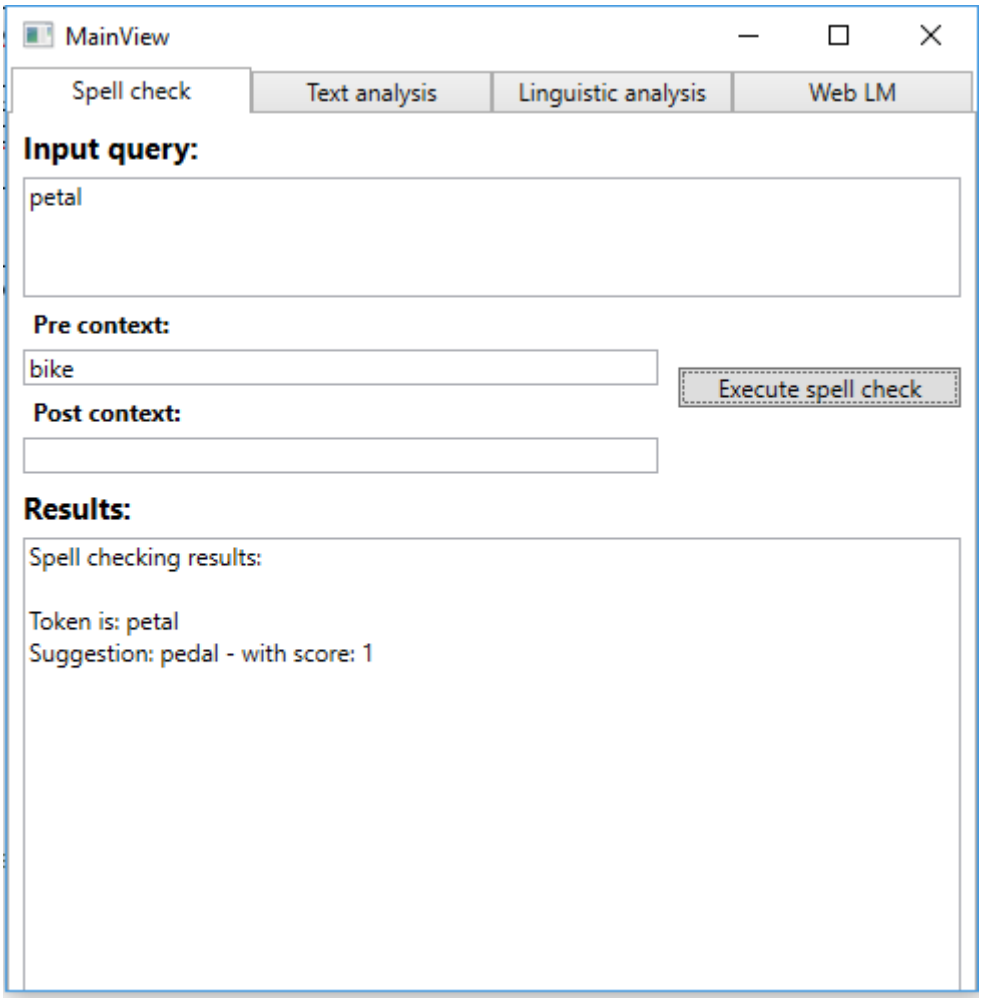


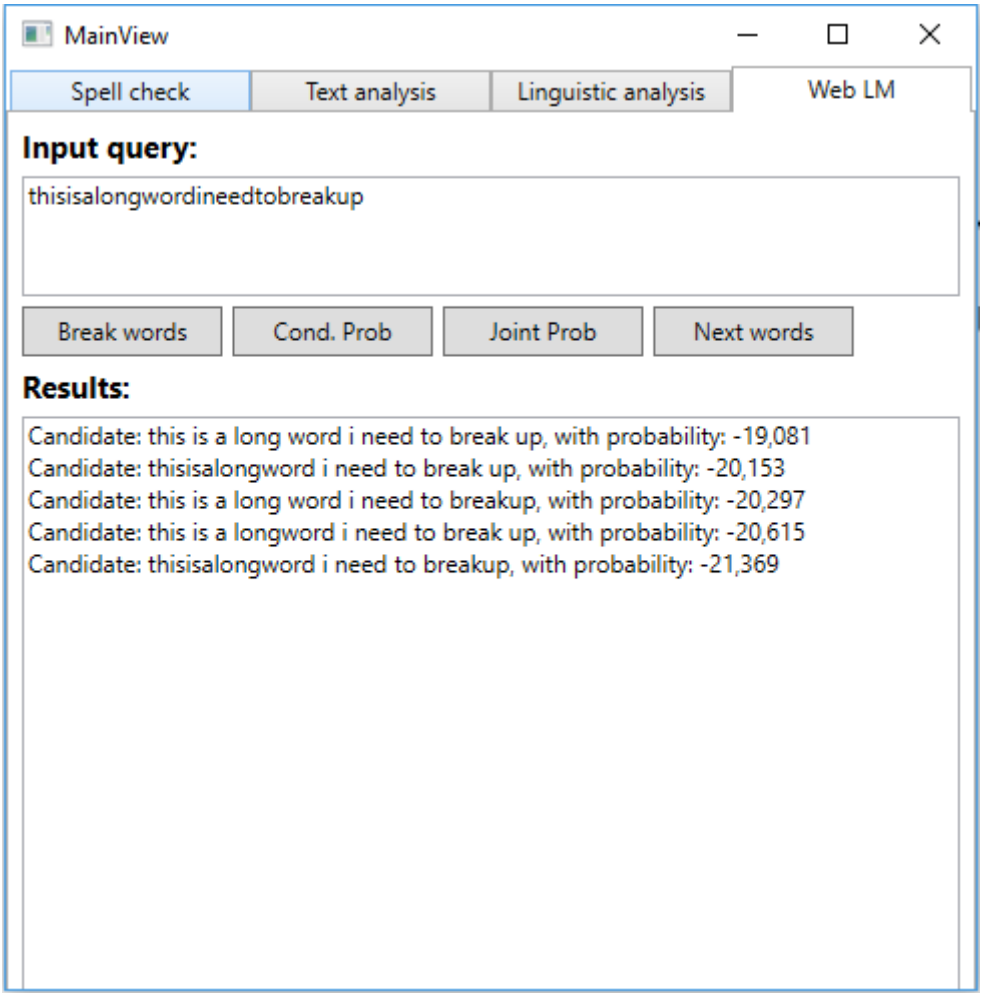

Chapter 5
Speaker profiles
Add new speaker profile
Add
Verification phrases:
i am going to make him an offer he cannot refuse
houston we have had a problem
my voice is my passport verify me
apple juice tastes funny after toothpaste
you can get in without your password
you can activate security system now
my voice is stronger than passwords
Speaker profiles:
f365b19e-3ada-4fa3-a72f-7ba3e513ad9b
Delete speaker
Start enrollment rec.
Stop recording
Reset enrollment
Start verification
Stop verification
Status
Enrollment status: Enrolled

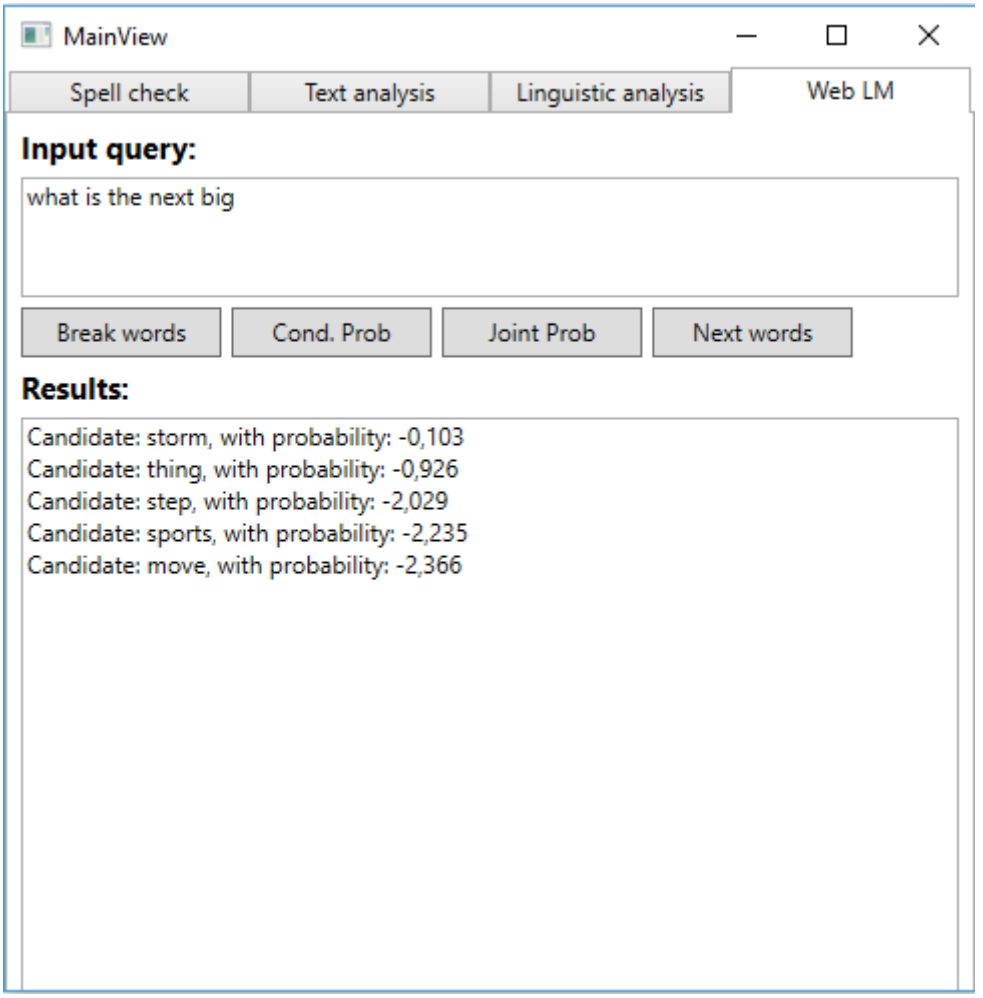

Chapter 5
Speaker profiles
Add new speaker profile
Add
Verification phrases:
i am going to make him an offer he cannot refuse
houston we have had a problem
my voice is my passport verify me
apple juice tastes funny after toothpaste
you can get in without your password
you can activate security system now
my voice is stronger than passwords
Speaker profiles:
f365b19e-3ada-4fa3-a72f-7ba3e513ad9b
Delete speaker
Start enrollment rec.
Stop recording
Reset enrollment
Start verification
Stop verification
Status
Verification result: Accept with High confidence.
Phrase used: houston we have had a problem

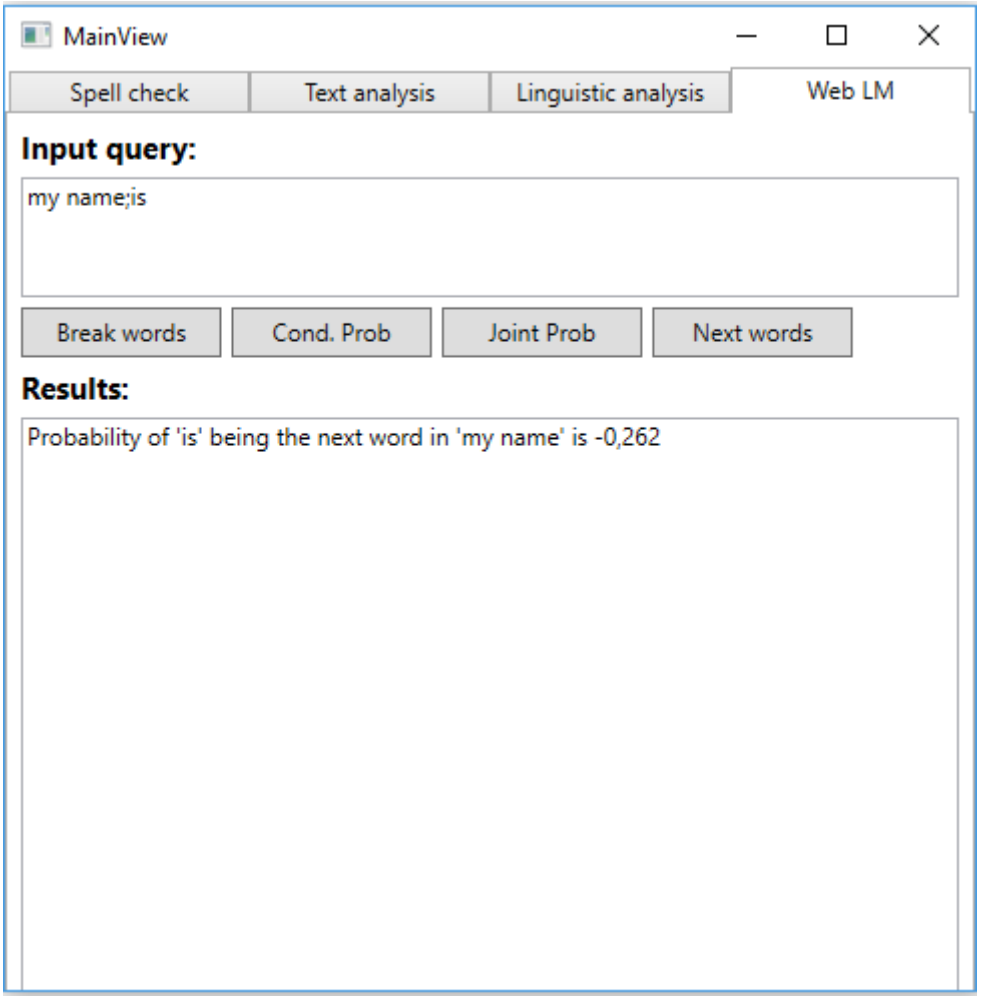

Chapter 5
Speaker profiles
Add new speaker profile
Add
Verification phrases:
i am going to make him an offer he cannot refuse
houston we have had a problem
my voice is my passport verify me
apple juice tastes funny after toothpaste
you can get in without your password
you can activate security system now
my voice is stronger than passwords
Speaker profiles:
f365b19e-3ada-4fa3-a72f-7ba3e513ad9b
Delete speaker
Start enrollment rec.
Stop recording
Reset enrollment
Start verification
Stop verification
Status
Verification result: Reject with High confidence.
Phrase used:

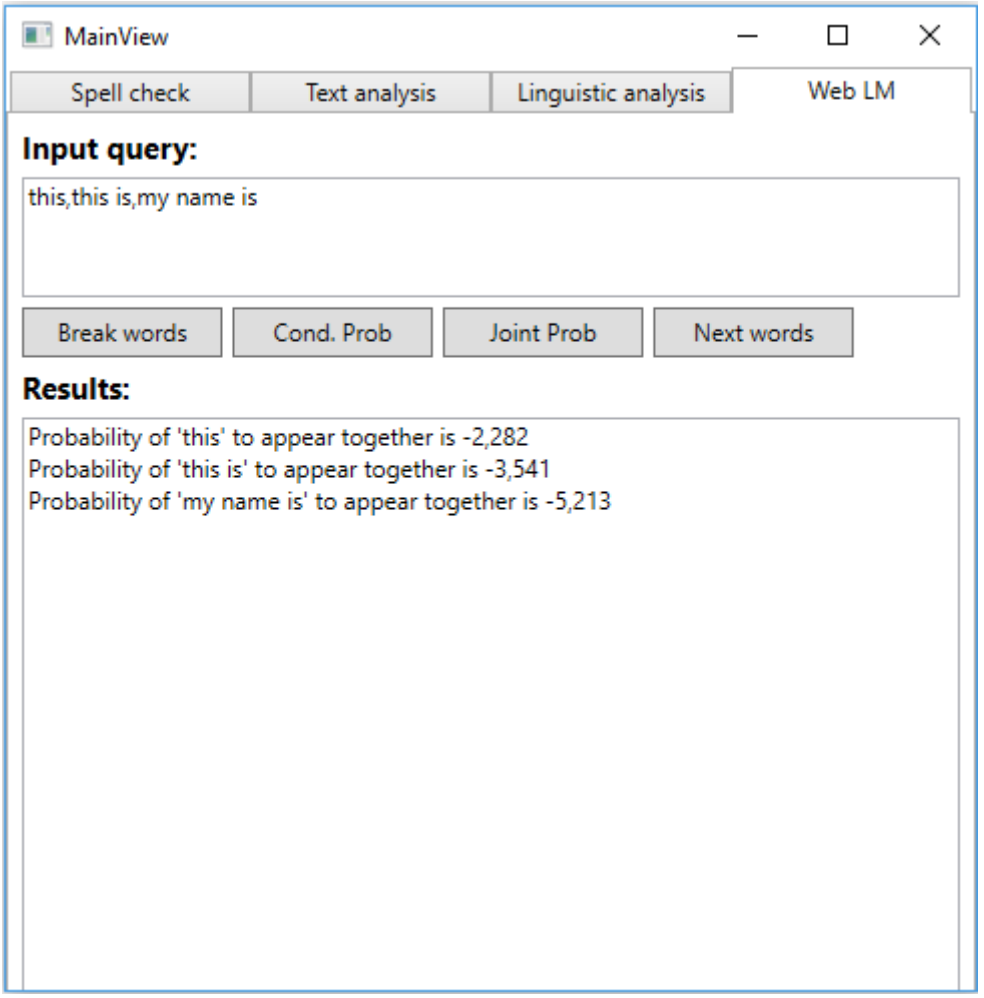
Chapter 6: Understanding Text

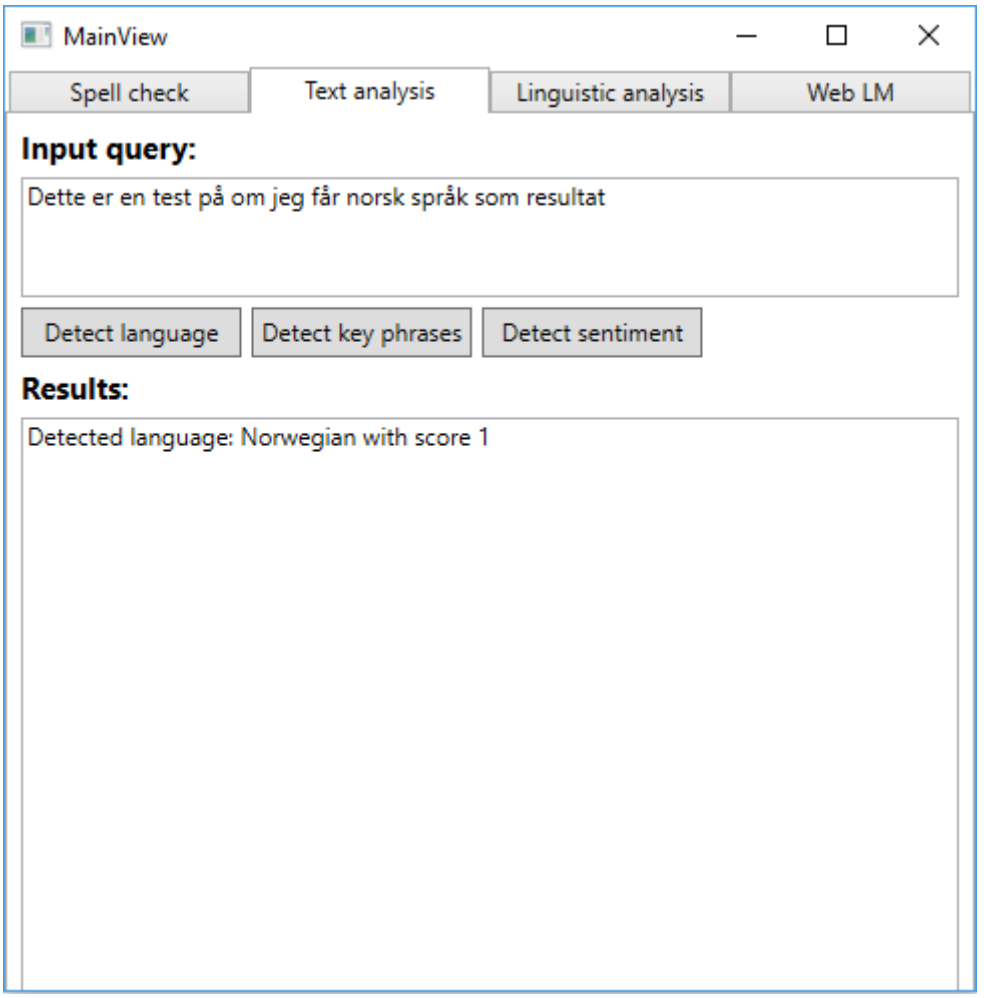


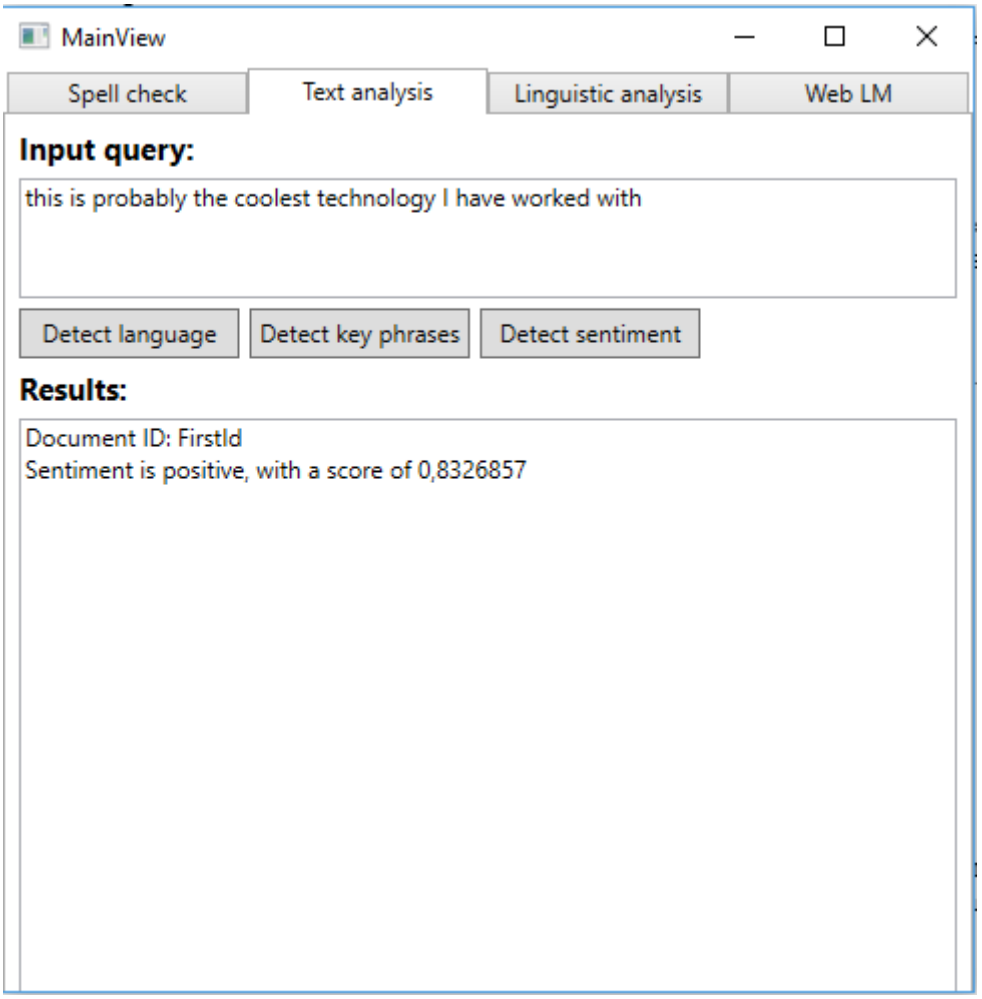

MainView
Spell check
Text analysis
Linguistic analysis
Web LM
Input query:
thisisalongwordineedtobreakup
Break words
Cond. Prob
Joint Prob
Next words
Results:
Candidate: this is a long word i need to break up, with probability: -19,081
Candidate: thisisalongword i need to break up, with probability: -20,153
Candidate: this is a long word i need to breakup, with probability: -20,297
Candidate: this is a longword i need to break up, with probability: -20,615
Candidate: thisisalongword i need to breakup, with probability: -21,369

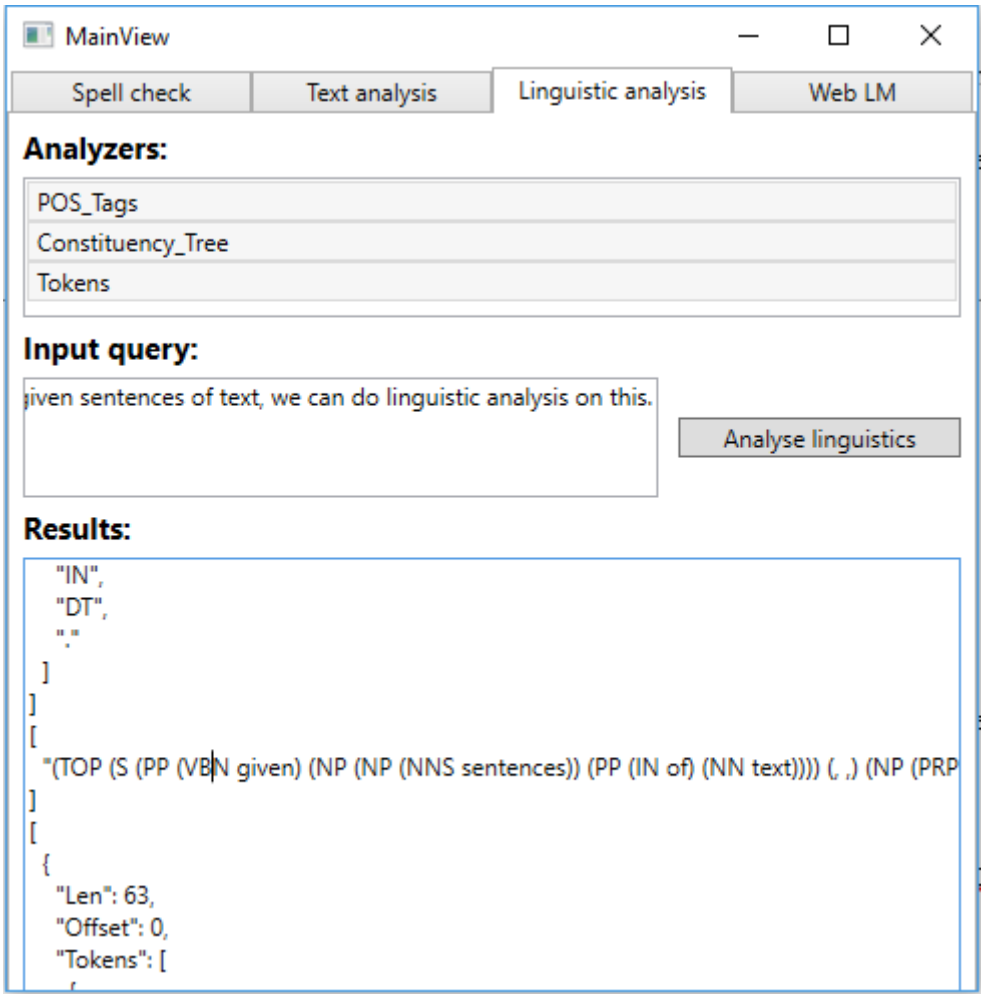

MainView
Spell check
Text analysis
Linguistic analysis
Web LM
Input query:
what is the next big
Break words
Cond. Prob
Joint Prob
Next words
Results:
Candidate: storm, with probability: -0,103
Candidate: thing, with probability: -0,926
Candidate: step, with probability: -2,029
Candidate: sports, with probability: -2,235
Candidate: move, with probability: -2,366


MainView
Spell check
Text analysis
Linguistic analysis
Web LM
Input query:
my name;is
Break words
Cond. Prob
Joint Prob
Next words
Results:
Probability of 'is' being the next word in 'my name' is -0,262

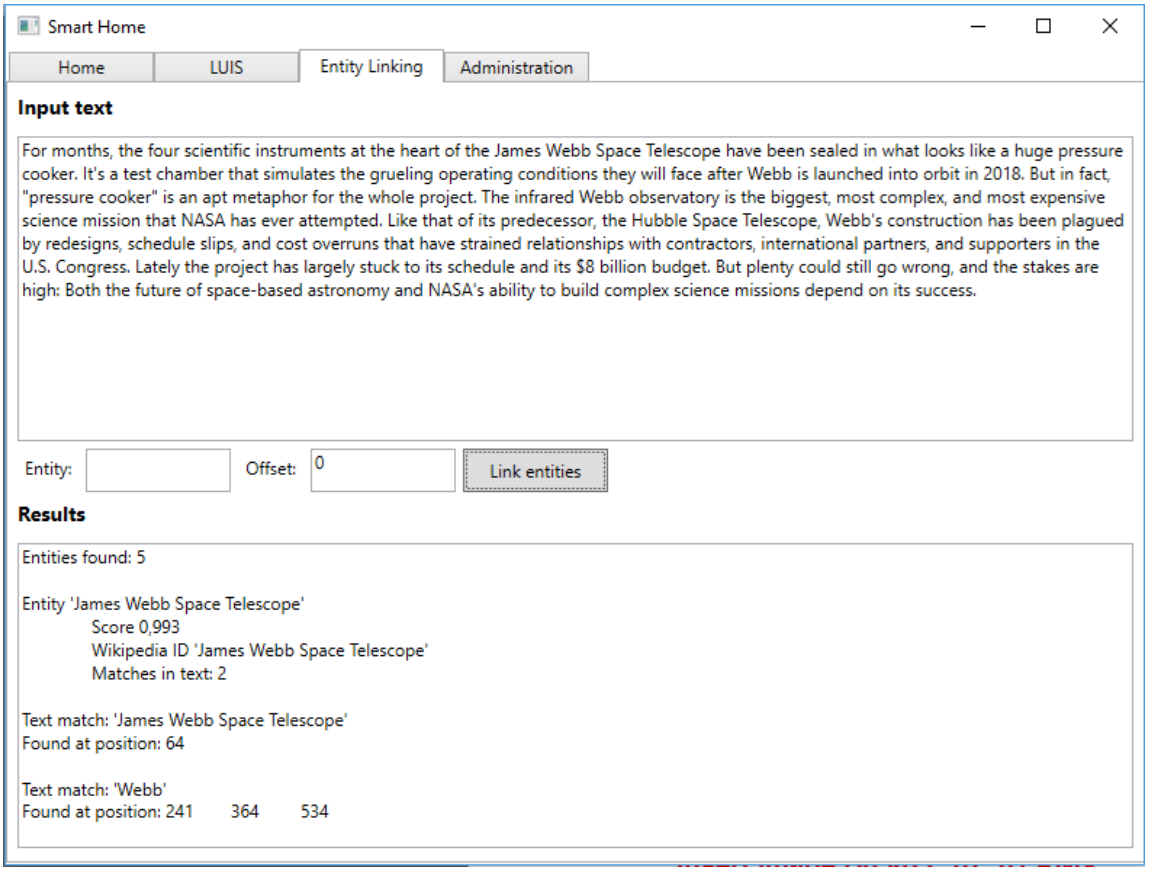

MainView
Spell check
Text analysis
Linguistic analysis
Web LM
Input query:
this,this is,my name is
Break words
Cond. Prob
Joint Prob
Next words
Results:
Probability of 'this' to appear together is -2,282
Probability of 'this is' to appear together is -3,541
Probability of 'my name is' to appear together is -5,213

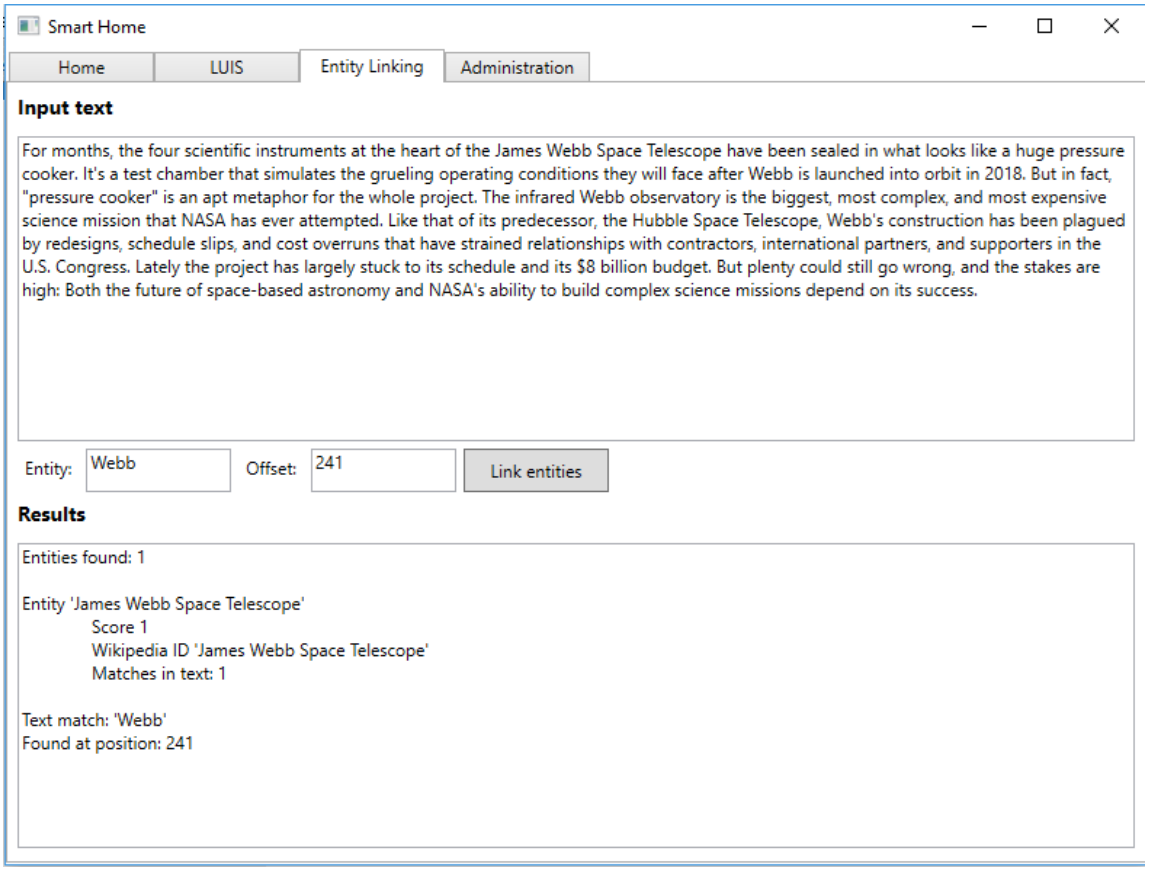

MainView
Spell check
Text analysis
Linguistic analysis
Web LM
Input query:
Dette er en test på om jeg får norsk språk som resultat
Detect language
Detect key phrases
Detect sentiment
Results:
Detected language: Norwegian with score 1

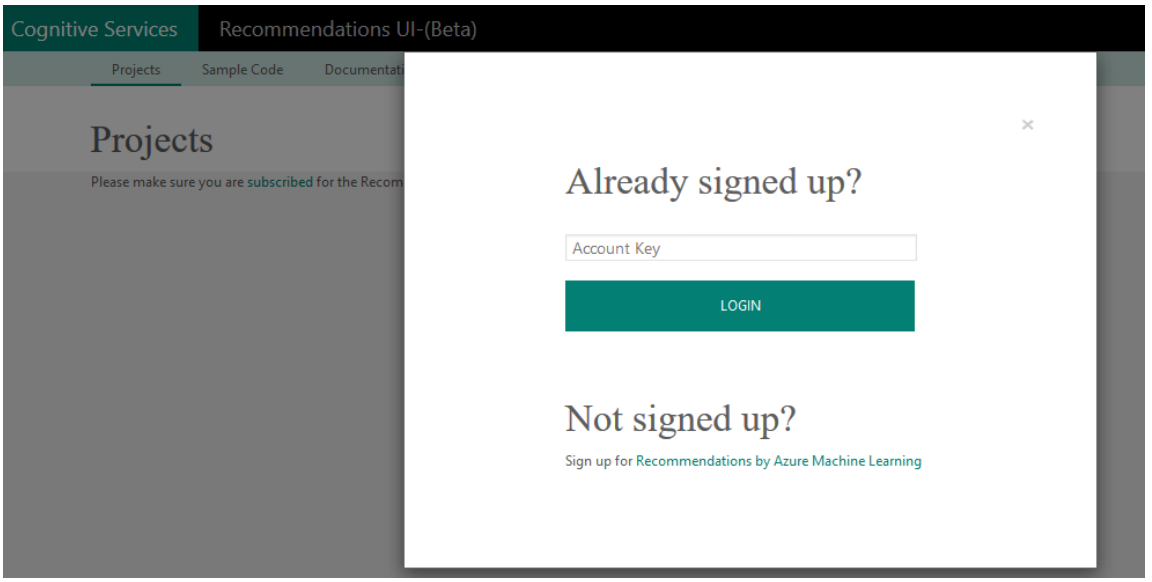

MainView
Spell check
Text analysis
Linguistic analysis
Web LM
Input query:
this is probably the coolest technology I have worked with
Detect language
Detect key phrases
Detect sentiment
Results:
Document ID: FirstId
Sentiment is positive, with a score of 0,8326857

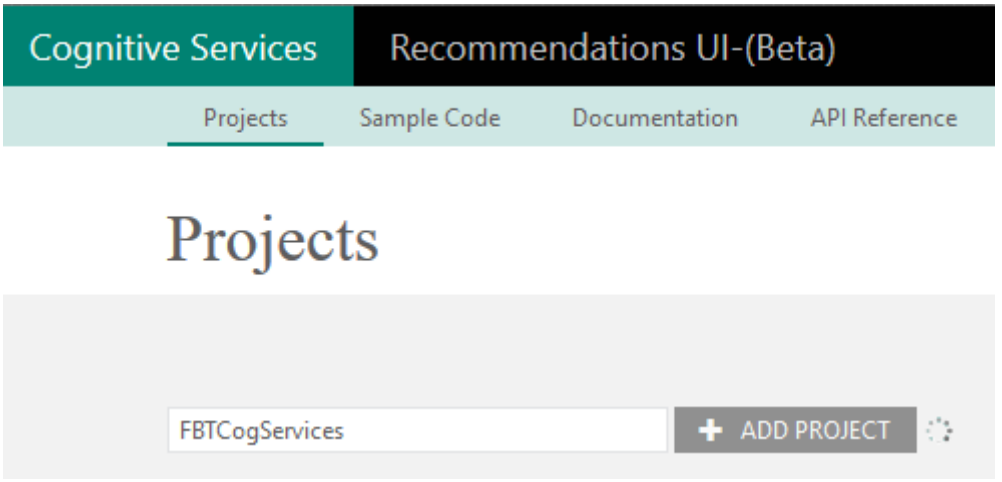

MainView
Spell check
Text analysis
Linguistic analysis
Web LM
Analyzers:
POS_Tags
Constituency_Tree
Tokens
Input query:
given sentences of text, we can do linguistic analysis on this.
Analyse linguistics
Results:
"IN",
"DT",
"."
]
]
[
"(TOP (S (PP (VBN given) (NP (NP (NNS sentences)) (PP (IN of) (NN text)))) (, ,) (NP (PRP
]
[
{
"Len": 63,
"Offset": 0,
"Tokens": [

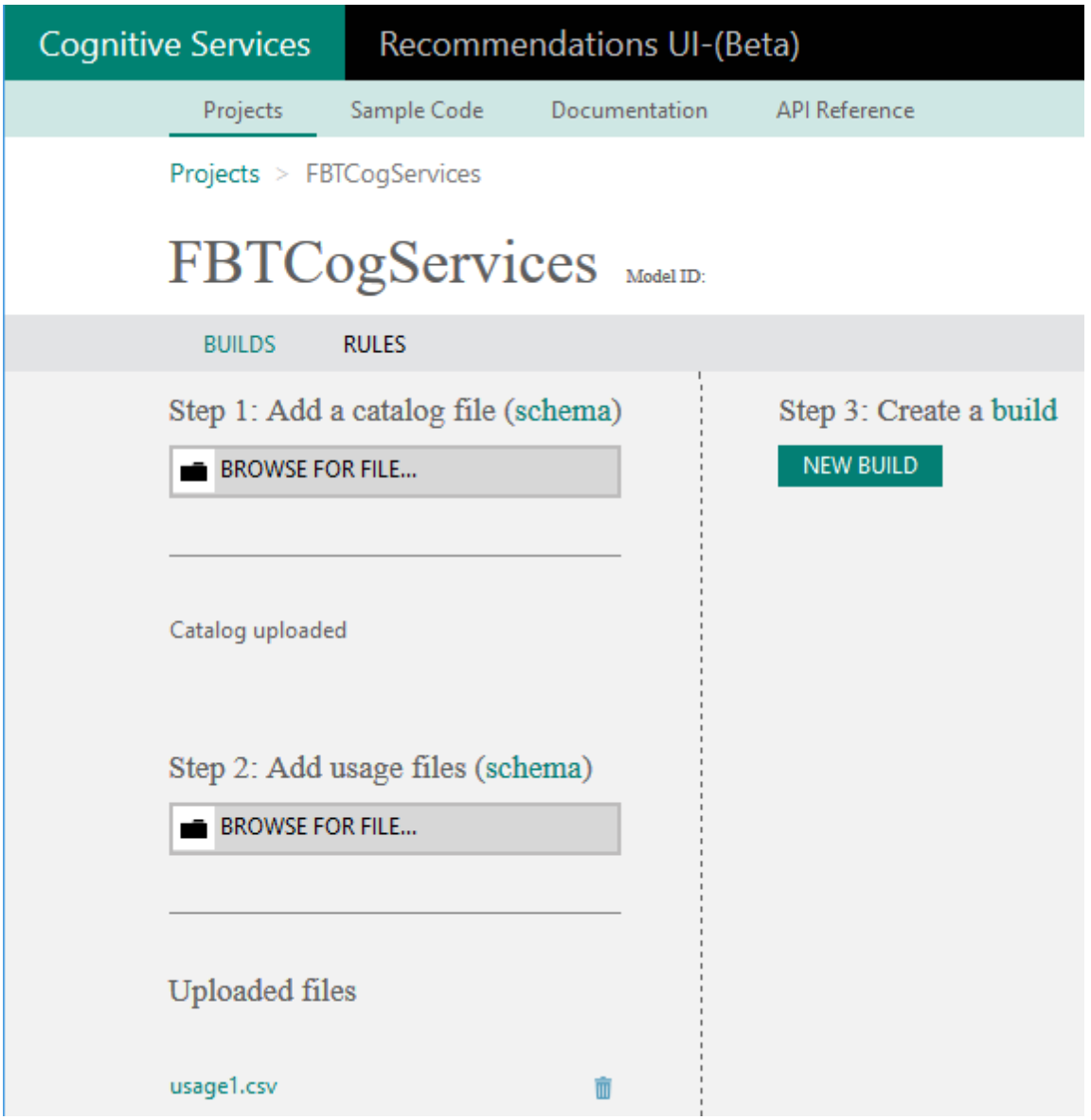
Chapter 7: Extending Knowledge Based on Context

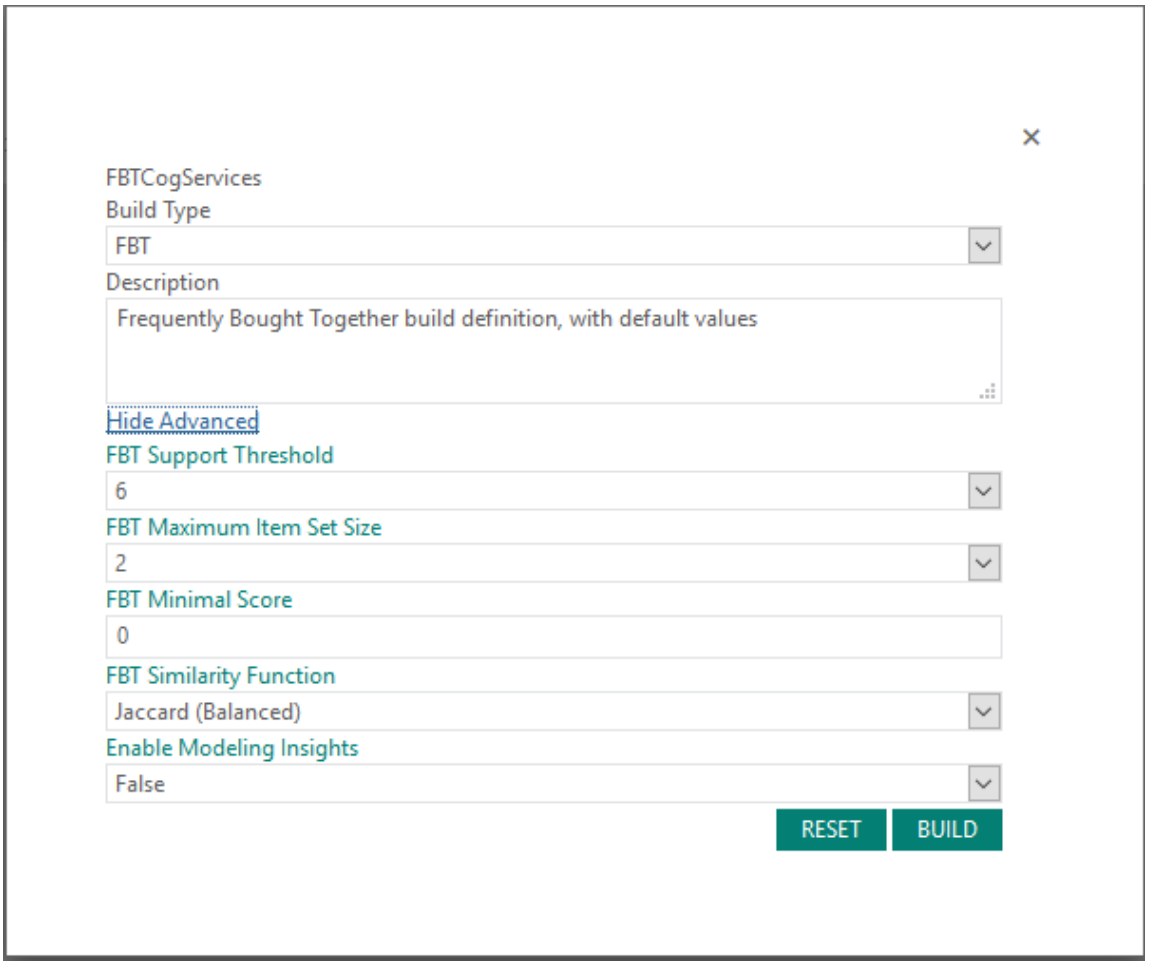


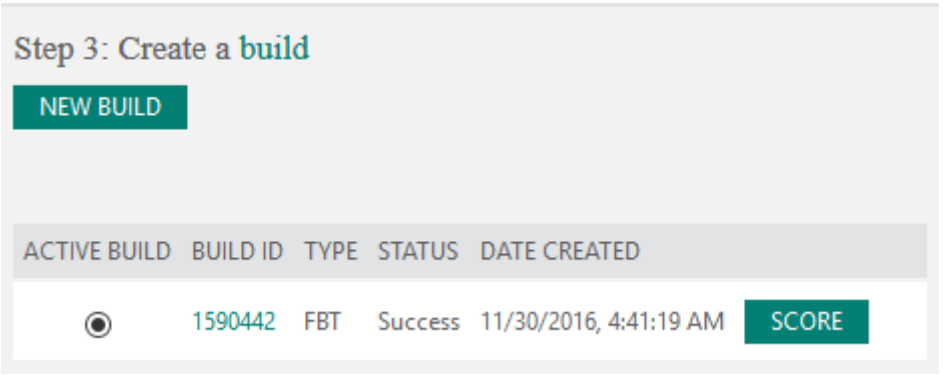

Smart Home
Home
LUIS
Entity Linking
Administration
Input text
For months, the four scientific instruments at the heart of the James Webb Space Telescope have been sealed in what looks like a huge pressure cooker. It's a test chamber that simulates the grueling operating conditions they will face after Webb is launched into orbit in 2018. But in fact, "pressure cooker" is an apt metaphor for the whole project. The infrared Webb observatory is the biggest, most complex, and most expensive science mission that NASA has ever attempted. Like that of its predecessor, the Hubble Space Telescope, Webb's construction has been plagued by redesigns, schedule slips, and cost overruns that have strained relationships with contractors, international partners, and supporters in the U.S. Congress. Lately the project has largely stuck to its schedule and its $8 billion budget. But plenty could still go wrong, and the stakes are high: Both the future of space-based astronomy and NASA's ability to build complex science missions depend on its success.
Entity:
Webb
Offset:
241
Link entities
Results
Entities found: 1
Entity 'James Webb Space Telescope'
Score 1
Wikipedia ID 'James Webb Space Telescope'
Matches in text: 1
Text match: 'Webb'
Found at position: 241


Cognitive Services
Recommendations UI-(Beta)
Projects
Sample Code
Projects
Please make sure you are subscribed for the Recom
Already signed up?
Account Key
LOGIN
Not signed up?
Sign up for Recommendations by Azure Machine Learning


Cognitive Services
Recommendations UI-(Beta)
Projects
Sample Code
Documentation
API Reference
Projects
FBTCogServices
ADD PROJECT


Cognitive Services
Recommendations UI-(Beta)
Projects
Sample Code
Documentation
API Reference
Projects > FBTCogServices
FBTCogServices
Model ID:
BUILDS
RULES
Step 1: Add a catalog file (schema)
BROWSE FOR FILE...
Catalog uploaded
Step 2: Add usage files (schema)
BROWSE FOR FILE...
Uploaded files
usage1.csv
Step 3: Create a build
NEW BUILD


FBTCogServices
Build Type
FBT
Description
Frequently Bought Together build definition, with default values
Hide Advanced
FBT Support Threshold
6
FBT Maximum Item Set Size
2
FBT Minimal Score
0
FBT Similarity Function
Jaccard (Balanced)
Enable Modeling Insights
False
RESET
BUILD


Step 3: Create a build
NEW BUILD
ACTIVE BUILD
BUILD ID
TYPE
STATUS
DATE CREATED
1590442
FBT
Success
11/30/2016, 4:41:19 AM
SCORE

Select seed items below, or search by name.

Search

Disney Interactive Studios Infinity Figure-francesco	Word 2013 32/64 ES PKL Online DwnLd C2R NonCmcl NR	Windows Server CAL 2012 English MLP 5 User CAL	HP Stream 7 Tablet Case - Black #K2N05AA#ABL	3D Systems Cube Cartridge Gen3 PLA White #391146	HP ENVY 15 TouchSmart Silver
Ubisoft Assassin's Creed IV:Black Flag PC	Her Interactive Nancy Drew: #22 Trail of the Twister PC Game ESD	Take 2 Nickelodeon Dance Xbox 360	Trina Turk Printed Sleeve for Surface Pro 3 - Fall 2 Floral #TTRKSP-001-F2F	Belkin Mini Displayport to HDMI 6' Cable	ADONIT Jot Mini Fine Point Stylus- Turqoise #ADJMT
Disney Interactive Studios Infinity Figure - Rapunzel	HP Pavilion TouchSmart 11 Silver	OfficePro 2013 32/64 ES PKL Online NaOnly DwnLd C2R NR	GOPRO LCD Touch BacPac #ALCDB-303	Nokia Micro USB Car Charger DC-15	EA FIFA World Cup 2014 Brazil Xbox 360

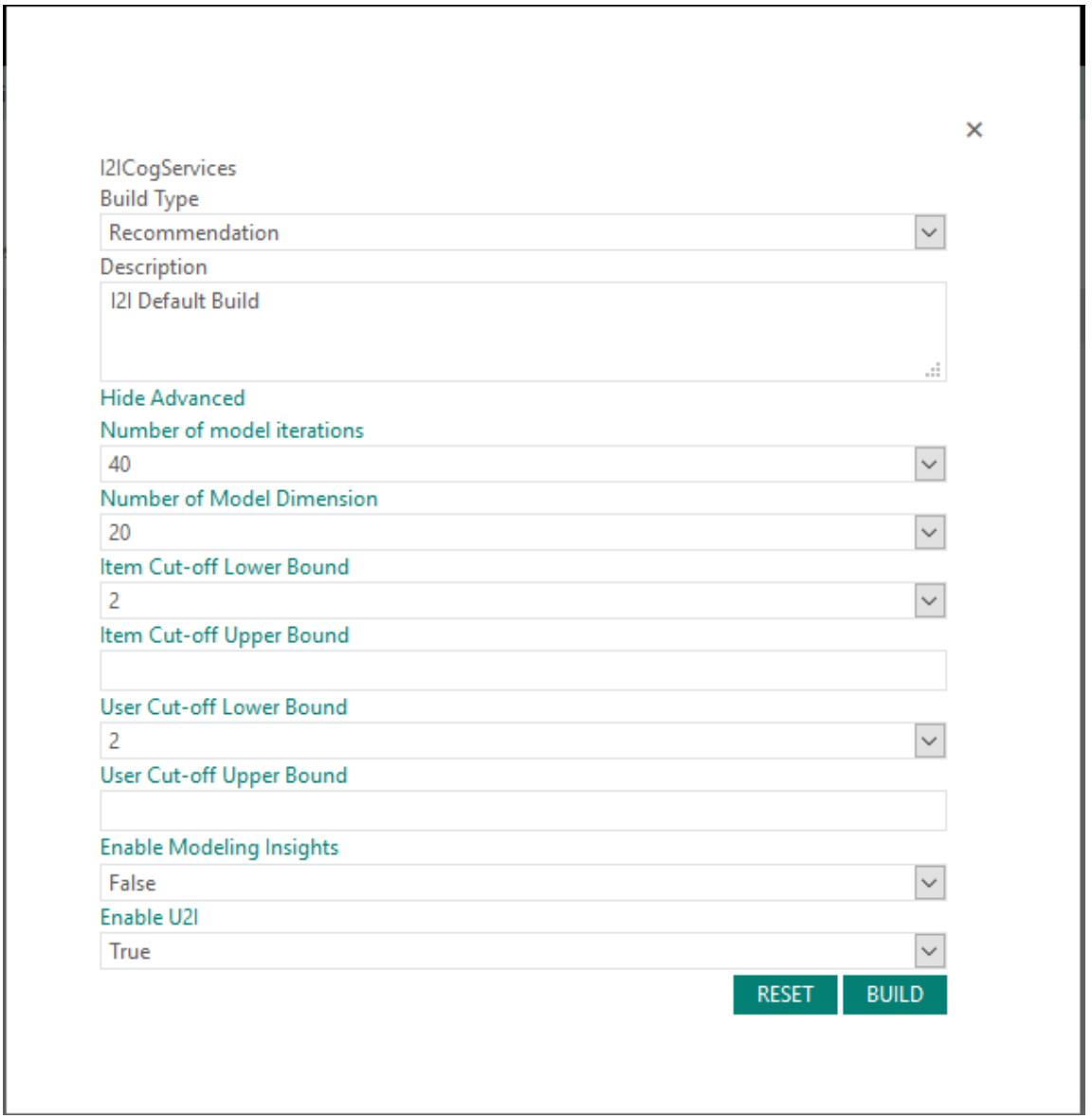
Page 1

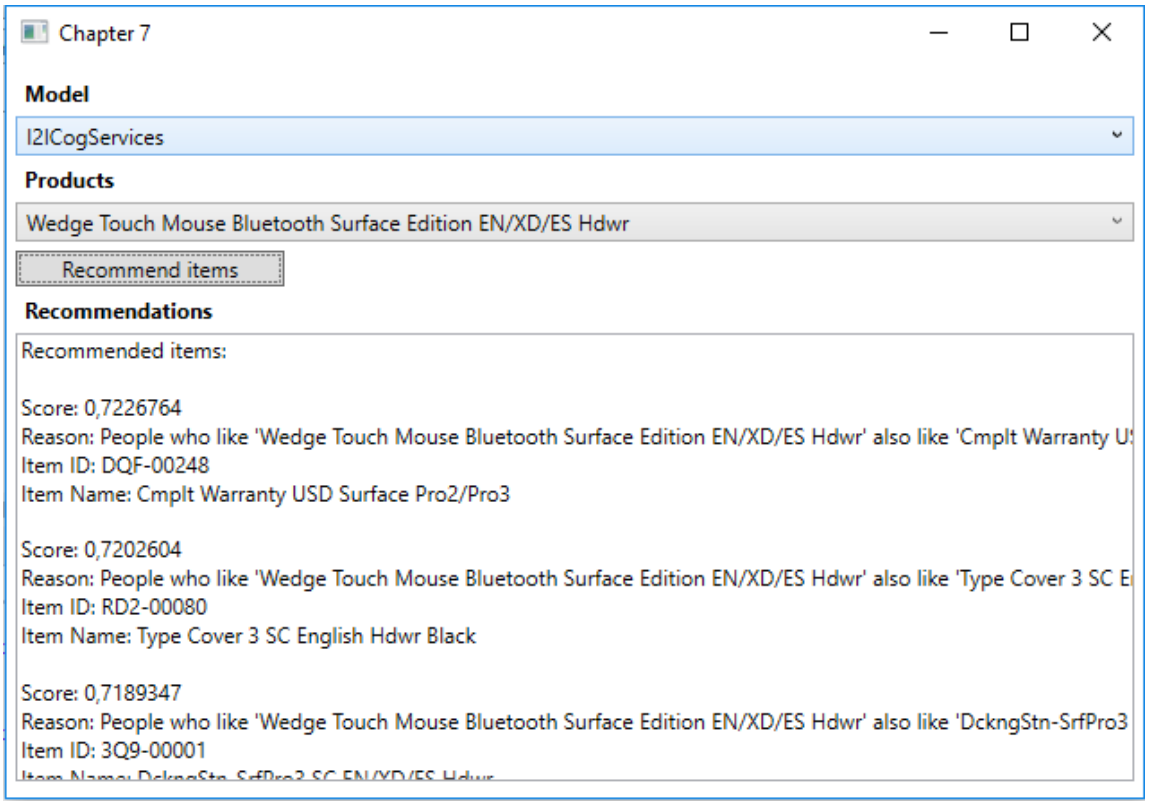
Cart

Nokia Micro USB Car Charger DC-15

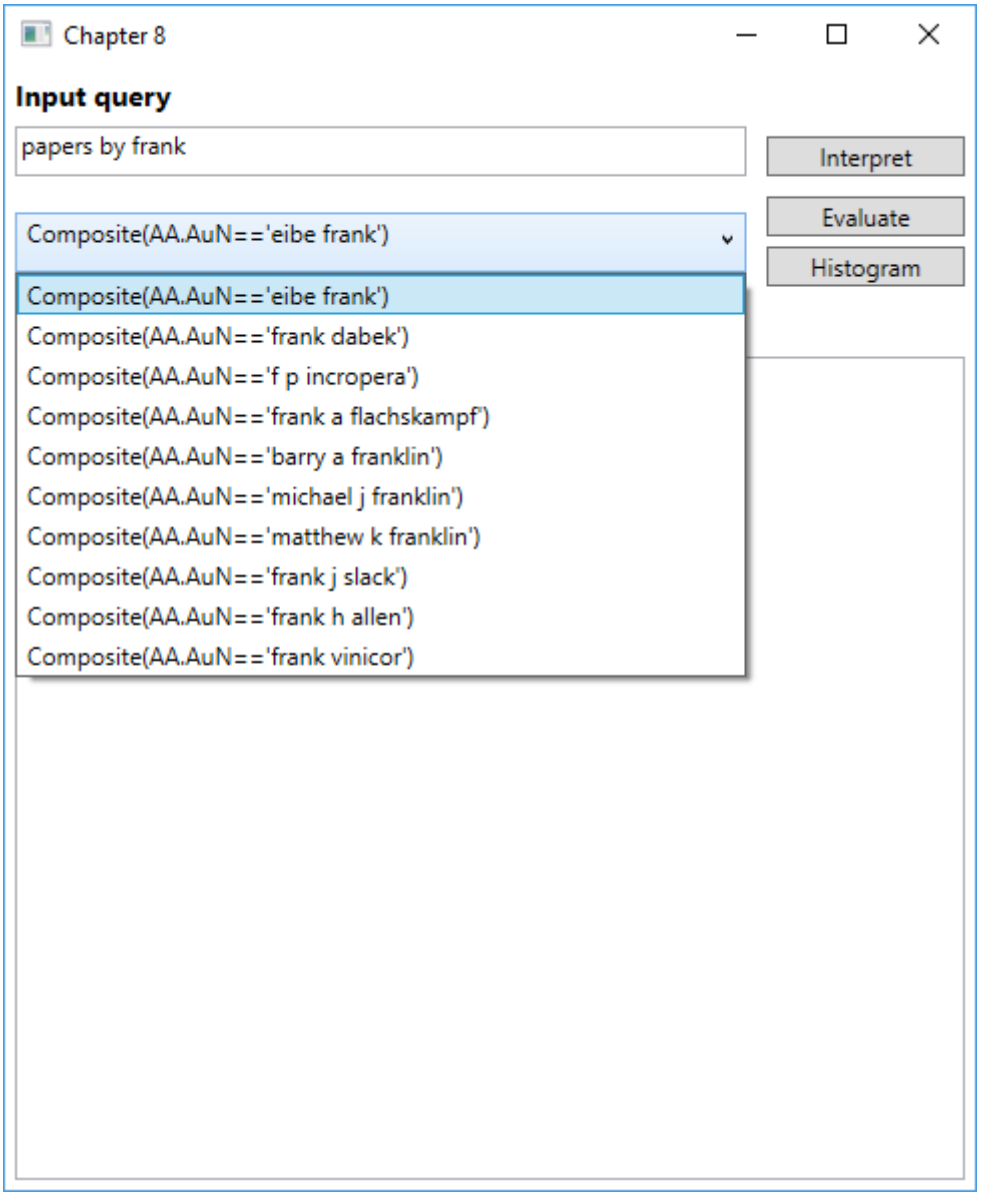
Recommendations

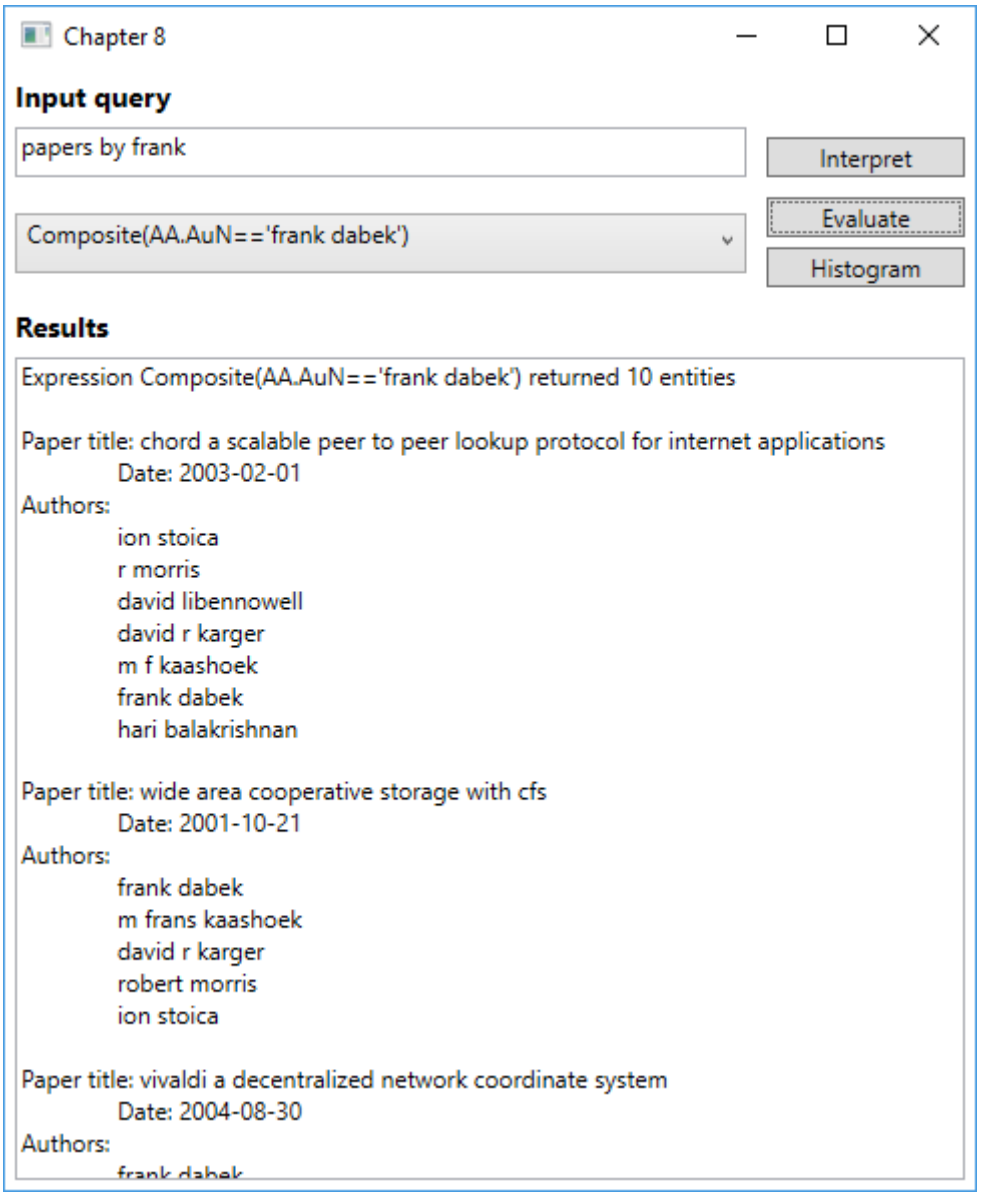
Microsoft Online Coupon SKU (0.00953)

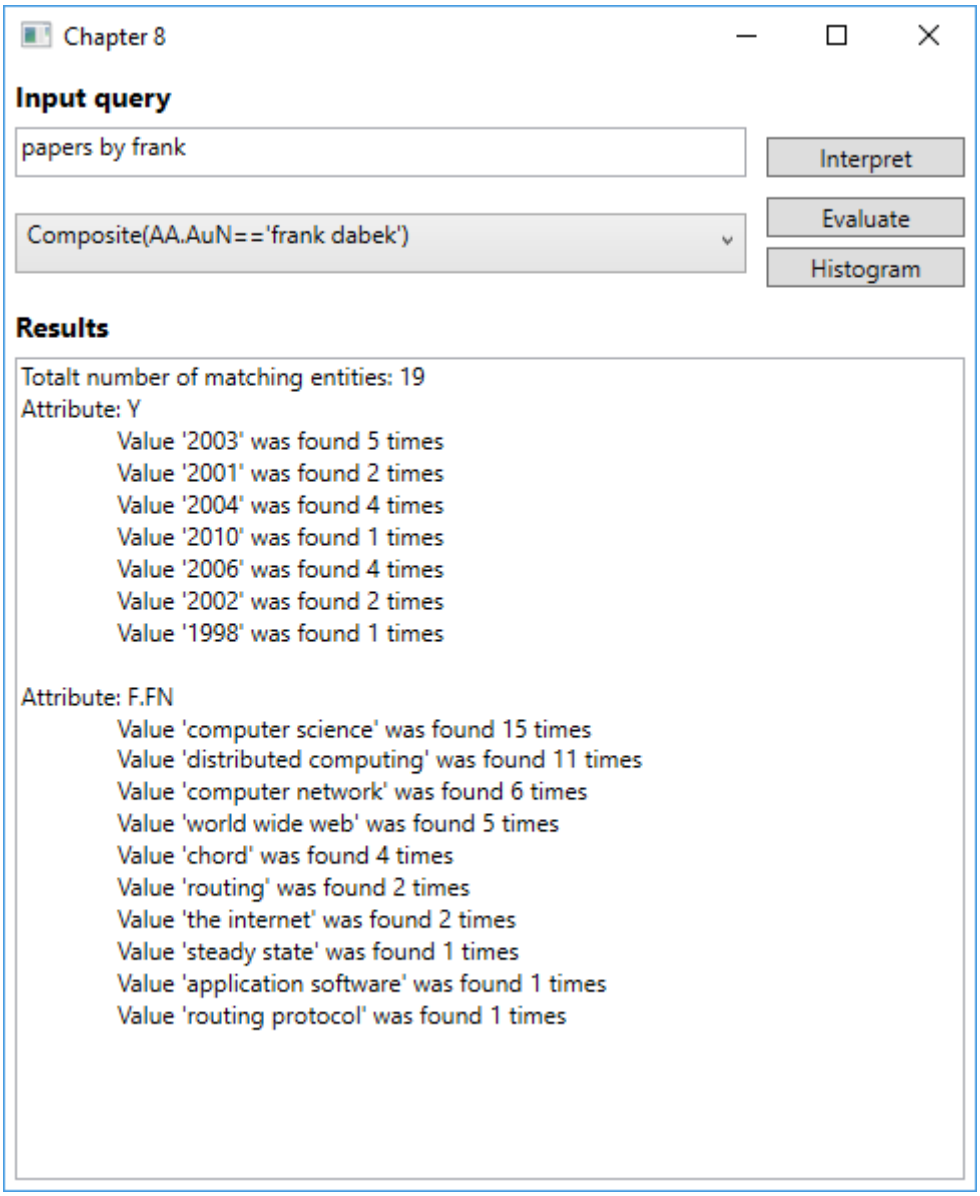

I2ICogServices
Build Type
Recommendation
Description
I2I Default Build
Hide Advanced
Number of model iterations
40
Number of Model Dimension
20
Item Cut-off Lower Bound
2
Item Cut-off Upper Bound
User Cut-off Lower Bound
2
User Cut-off Upper Bound
Enable Modeling Insights
False
Enable U2I
True
RESET
BUILD


Chapter 7
Model
I2ICogServices
Products
Wedge Touch Mouse Bluetooth Surface Edition EN/XD/ES Hdwr
Recommend items
Recommendations
Recommended items:
Score: 0,7226764
Reason: People who like 'Wedge Touch Mouse Bluetooth Surface Edition EN/XD/ES Hdwr' also like 'Cmplt Warranty U
Item ID: DQF-00248
Item Name: Cmplt Warranty USD Surface Pro2/Pro3
Score: 0,7202604
Reason: People who like 'Wedge Touch Mouse Bluetooth Surface Edition EN/XD/ES Hdwr' also like 'Type Cover 3 SC E
Item ID: RD2-00080
Item Name: Type Cover 3 SC English Hdwr Black
Score: 0,7189347
Reason: People who like 'Wedge Touch Mouse Bluetooth Surface Edition EN/XD/ES Hdwr' also like 'DckngStn-SrfPro3
Item ID: 3Q9-00001

Chapter 8: Querying Structured Data in a Natural Way




Chapter 8
Input query
papers by frank
Interpret
Composite(AA.AuN=='frank dabek')
Evaluate
Histogram
Results
Expression Composite(AA.AuN=='frank dabek') returned 10 entities
Paper title: chord a scalable peer to peer lookup protocol for internet applications
Date: 2003-02-01
Authors:
ion stoica
r morris
david libennowell
david r karger
m f kaashoek
frank dabek
hari balakrishnan
Paper title: wide area cooperative storage with cfs
Date: 2001-10-21
Authors:
frank dabek
m frans kaashoek
david r karger
robert morris
ion stoica
Paper title: vivaldi a decentralized network coordinate system
Date: 2004-08-30
Authors:
frank dabek


Chapter 8
Input query
papers by frank
Interpret
Composite(AA.AuN=='frank dabek')
Evaluate
Histogram
Results
Totalt number of matching entities: 19
Attribute: Y
Value '2003' was found 5 times
Value '2001' was found 2 times
Value '2004' was found 4 times
Value '2010' was found 1 times
Value '2006' was found 4 times
Value '2002' was found 2 times
Value '1998' was found 1 times
Attribute: F.FN
Value 'computer science' was found 15 times
Value 'distributed computing' was found 11 times
Value 'computer network' was found 6 times
Value 'world wide web' was found 5 times
Value 'chord' was found 4 times
Value 'routing' was found 2 times
Value 'the internet' was found 2 times
Value 'steady state' was found 1 times
Value 'application software' was found 1 times
Value 'routing protocol' was found 1 times

Click here to see details about the web service

Enter a query below to see interpretations. After 1 second, entities and histograms will be fetched for the first interpretation. You can click on other interpretations to fetch objects and histograms for them.

papers by

Interpret URL: interpret?complete=1&results=0&query=papers by

- papers by james r bergen
- papers by hugh r wilson
- papers by paramvir bahl
- papers by bishnu s atal
- papers by suzanne l hanauer
- papers by andrew blake
- papers by zhengyou zhang
- papers by hugues hoppe

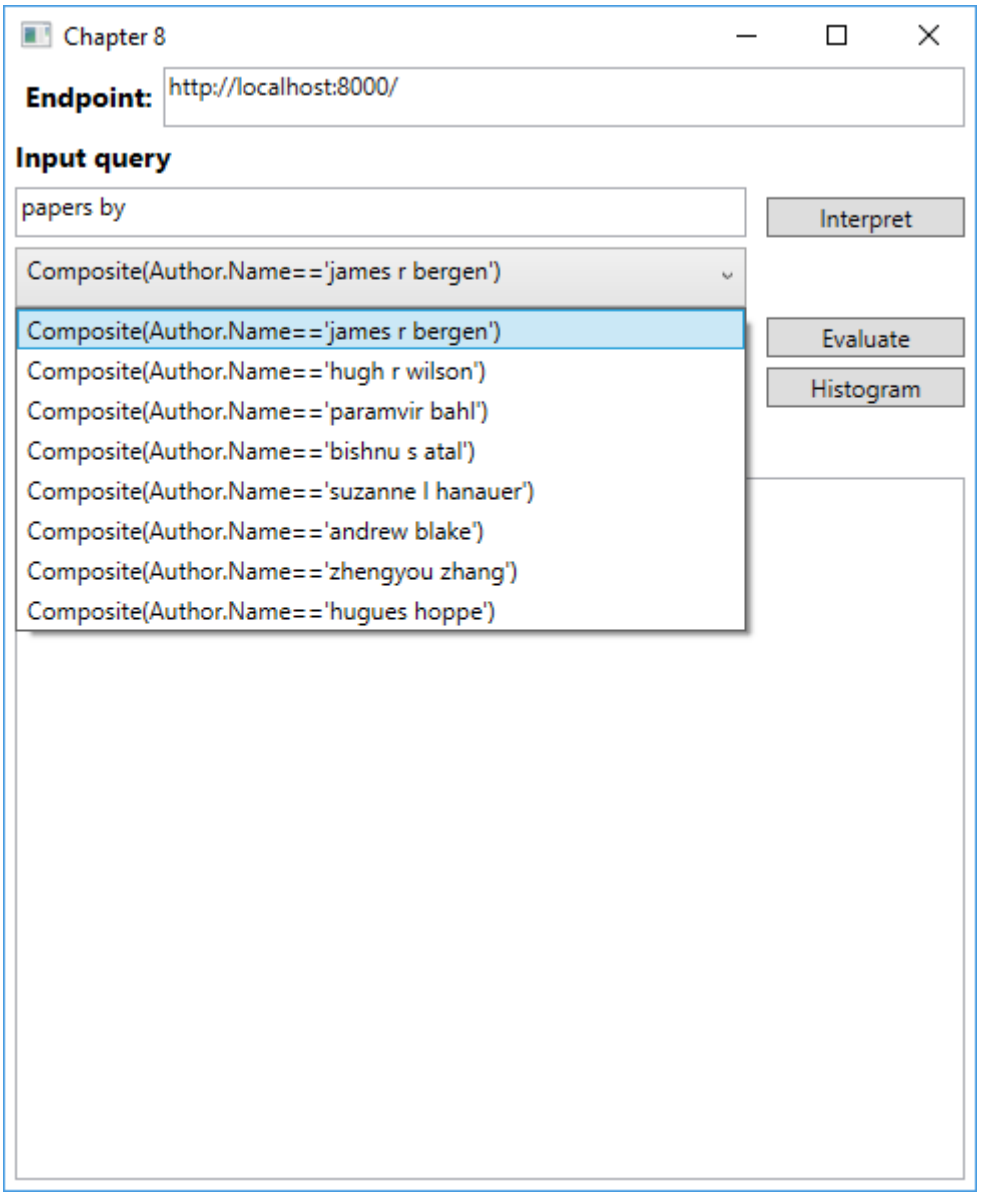
Evaluate URL:
evaluate?attributes=*&expr=Composite(Author.Name=='james r bergen')

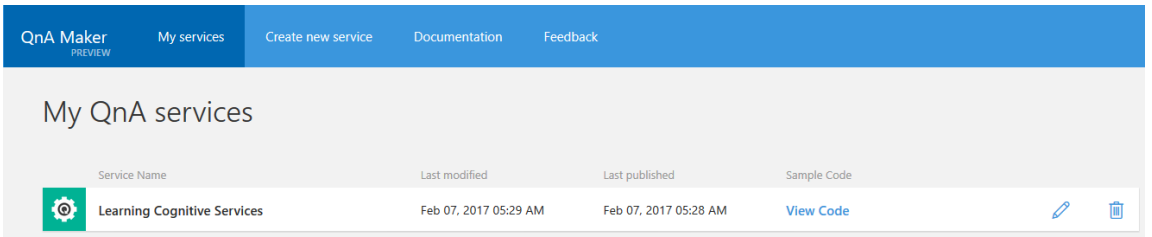

```
{
    "logprob": -13.963,
    "Title": [
        "a four mechanism model for threshold spatial vision"
    ],
    "Year": [
        1979
    ],
    "Keyword": [],
    "Author": [
        {
            "Id": [
                2225066386
            ],
            "Name": [
                "hugh r wilson"
            ],
            "Affiliation": [
                "microsoft"
            ]
```

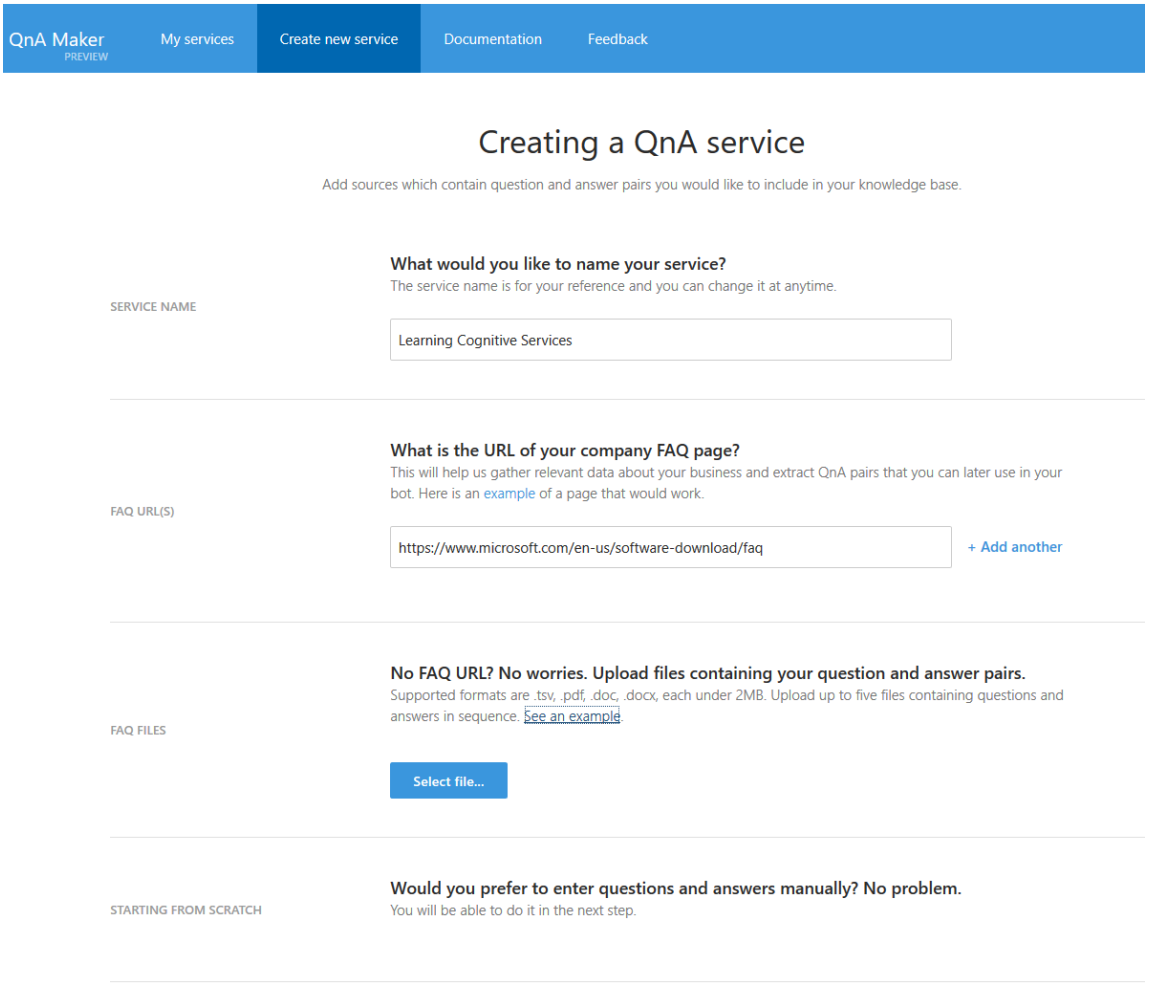

CalcHistogram URL:
histogram?attributes=*&expr=Composite(Author.Name=='james r bergen')

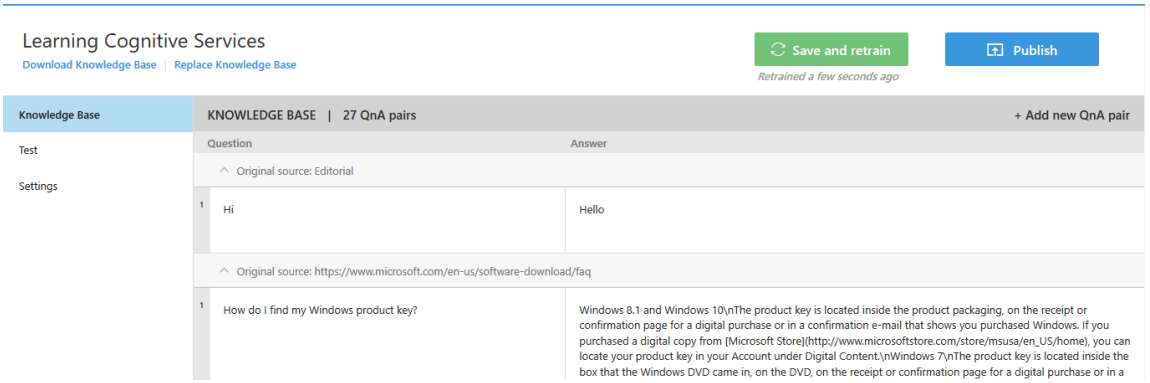

```
{
    "attribute": "Title",
    "distinct_values": 1,
    "total_count": 1,
    "histogram": [
        {
            "value": "a four mechanism model for threshold spatial vision",
            "logprob": -13.963,
            "count": 1
        }
    ]
}
```

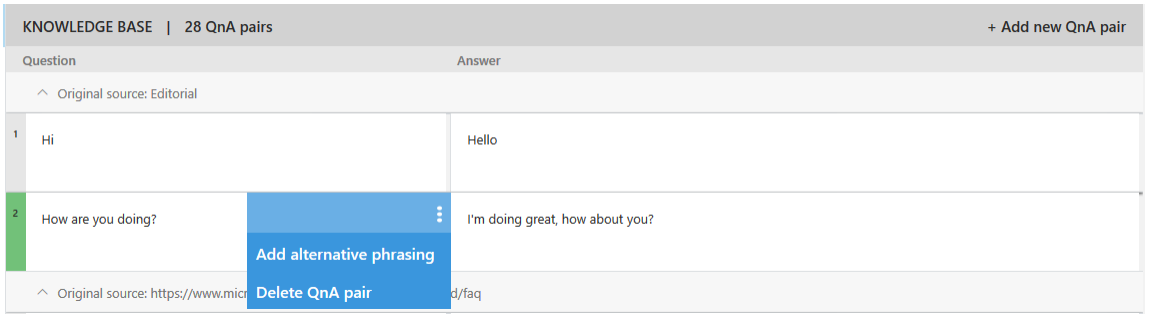
```
{
    "attribute": "Year",
    "distinct_values": 1,
    "total_count": 1,
    "histogram": [
        {
            "value": 1979,
```

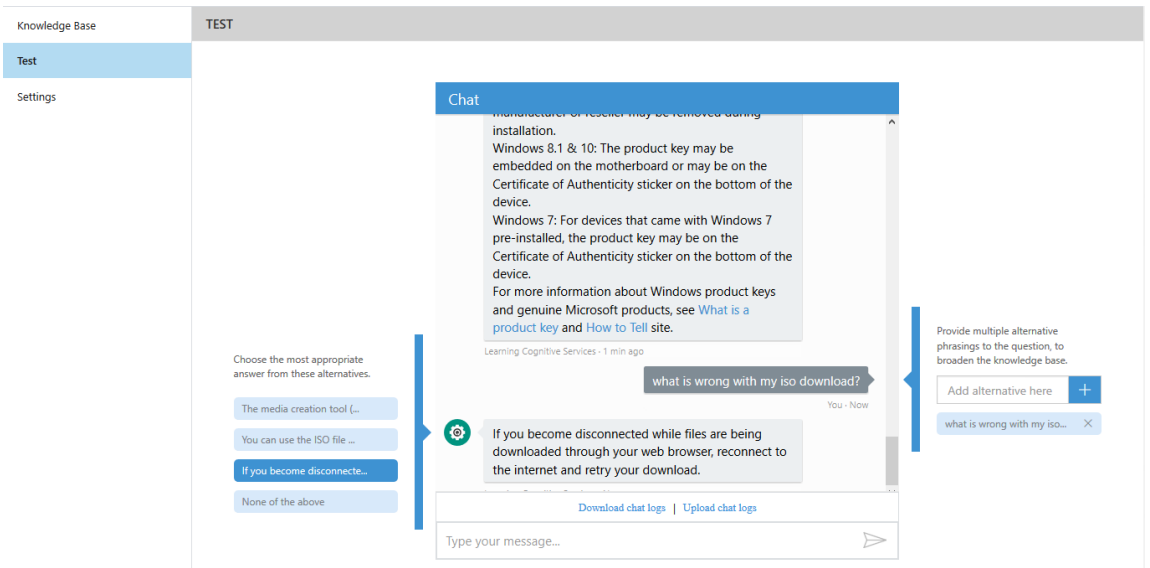

Chapter 8
Endpoint:
http://localhost:8000/
Input query
papers by
Interpret
Composite(Author.Name=='james r bergen')
Composite(Author.Name=='james r bergen')
Composite(Author.Name=='hugh r wilson')
Composite(Author.Name=='paramvir bahl')
Composite(Author.Name=='bishnu s atal')
Composite(Author.Name=='suzanne l hanauer')
Composite(Author.Name=='andrew blake')
Composite(Author.Name=='zhengyou zhang')
Composite(Author.Name=='hugues hoppe')
Evaluate
Histogram

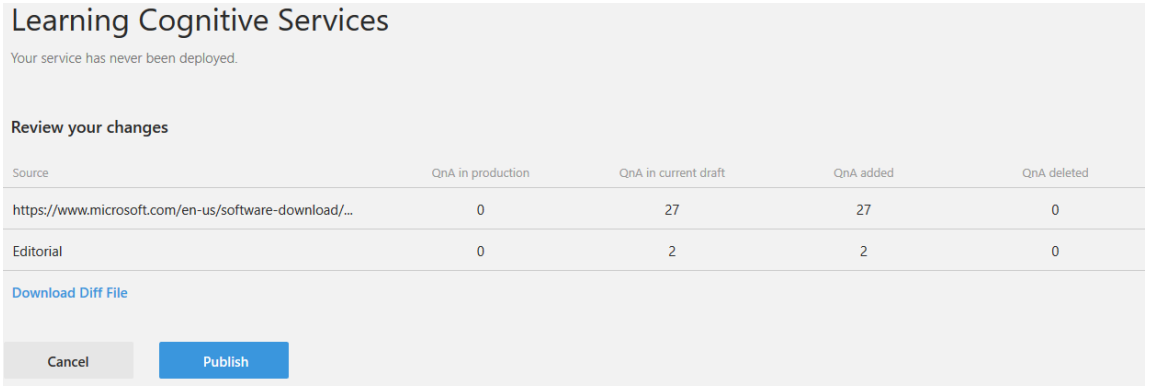

QnA Maker
PREVIEW
My services
Create new service
Documentation
Feedback
My QnA services
Service Name
Last modified
Last published
Sample Code
Learning Cognitive Services
Feb 07, 2017 05:29 AM
Feb 07, 2017 05:28 AM
View Code

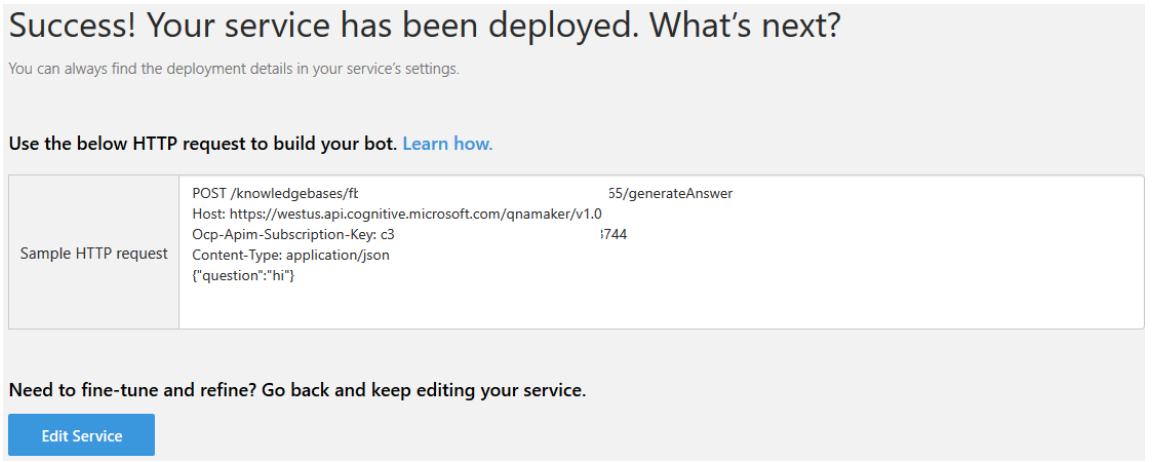

QnA Maker
PREVIEW
My services
Create new service
Documentation
Feedback
Creating a QnA service
Add sources which contain question and answer pairs you would like to include in your knowledge base.
SERVICE NAME
What would you like to name your service?
The service name is for your reference and you can change it at anytime.
Learning Cognitive Services
FAQ URL(S)
What is the URL of your company FAQ page?
This will help us gather relevant data about your business and extract QnA pairs that you can later use in your bot. Here is an example of a page that would work.
https://www.microsoft.com/en-us/software-download/faq
+ Add another
FAQ FILES
No FAQ URL? No worries. Upload files containing your question and answer pairs.
Supported formats are .tsv, .pdf, .doc, .docx, each under 2MB. Upload up to five files containing questions and answers in sequence. See an example.
Select file...
STARTING FROM SCRATCH
Would you prefer to enter questions and answers manually? No problem.
You will be able to do it in the next step.


Learning Cognitive Services
Download Knowledge Base | Replace Knowledge Base
Save and retrain
Retrained a few seconds ago
Publish
Knowledge Base
Test
Settings
KNOWLEDGE BASE | 27 QnA pairs
+ Add new QnA pair
Question
Answer
Original source: Editorial
1
Hi
Hello
Original source: https://www.microsoft.com/en-us/software-download/faq
1
How do I find my Windows product key?
Windows 8.1 and Windows 10\nThe product key is located inside the product packaging, on the receipt or confirmation page for a digital purchase or in a confirmation e-mail that shows you purchased Windows. If you purchased a digital copy from [Microsoft Store](http://www.microsoftstore.com/store/msusa/en_US/home), you can locate your product key in your Account under Digital Content.\nWindows 7\nThe product key is located inside the box that the Windows DVD came in, on the DVD, on the receipt or confirmation page for a digital purchase or in a

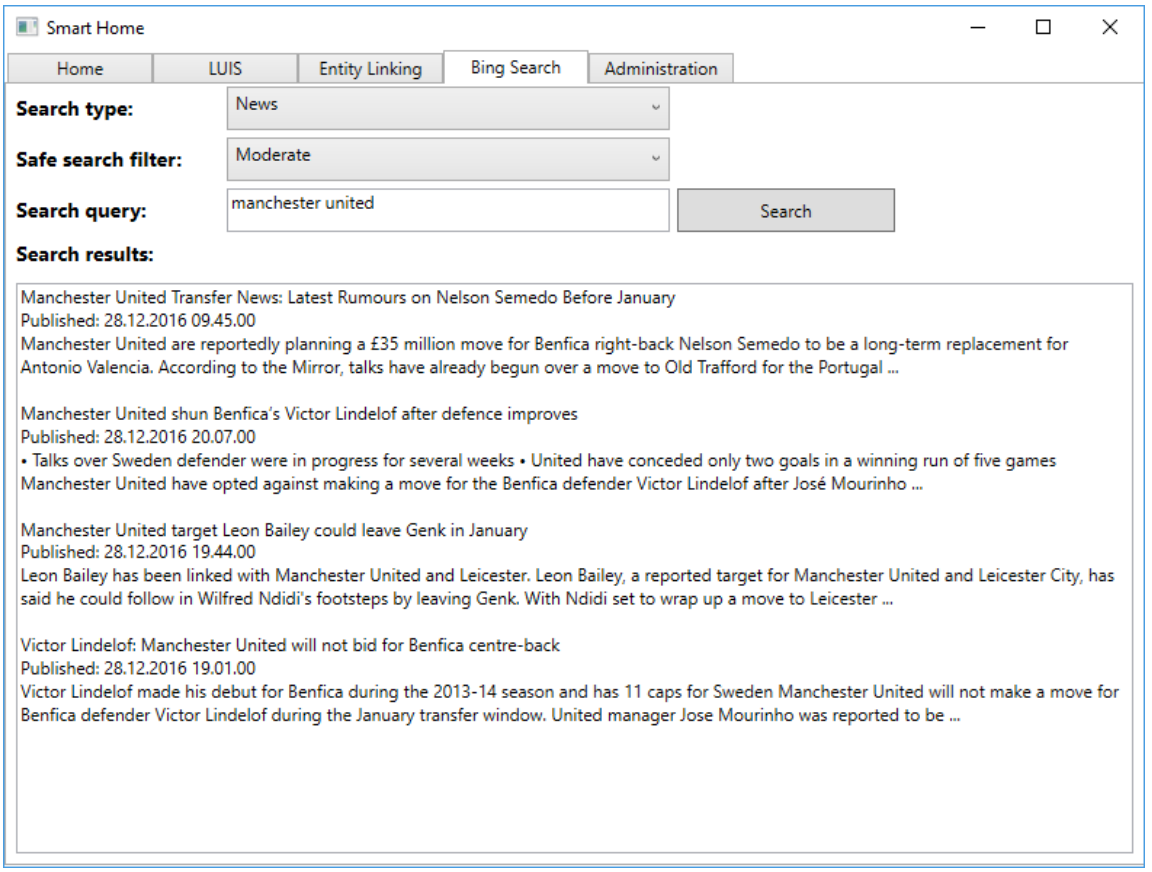

KNOWLEDGE BASE | 28 QnA pairs
+ Add new QnA pair
Question
Answer
Original source: Editorial
1
Hi
Hello
2
How are you doing?
I'm doing great, how about you?
Add alternative phrasing
Delete QnA pair
Original source: https://www.micr
d/faq

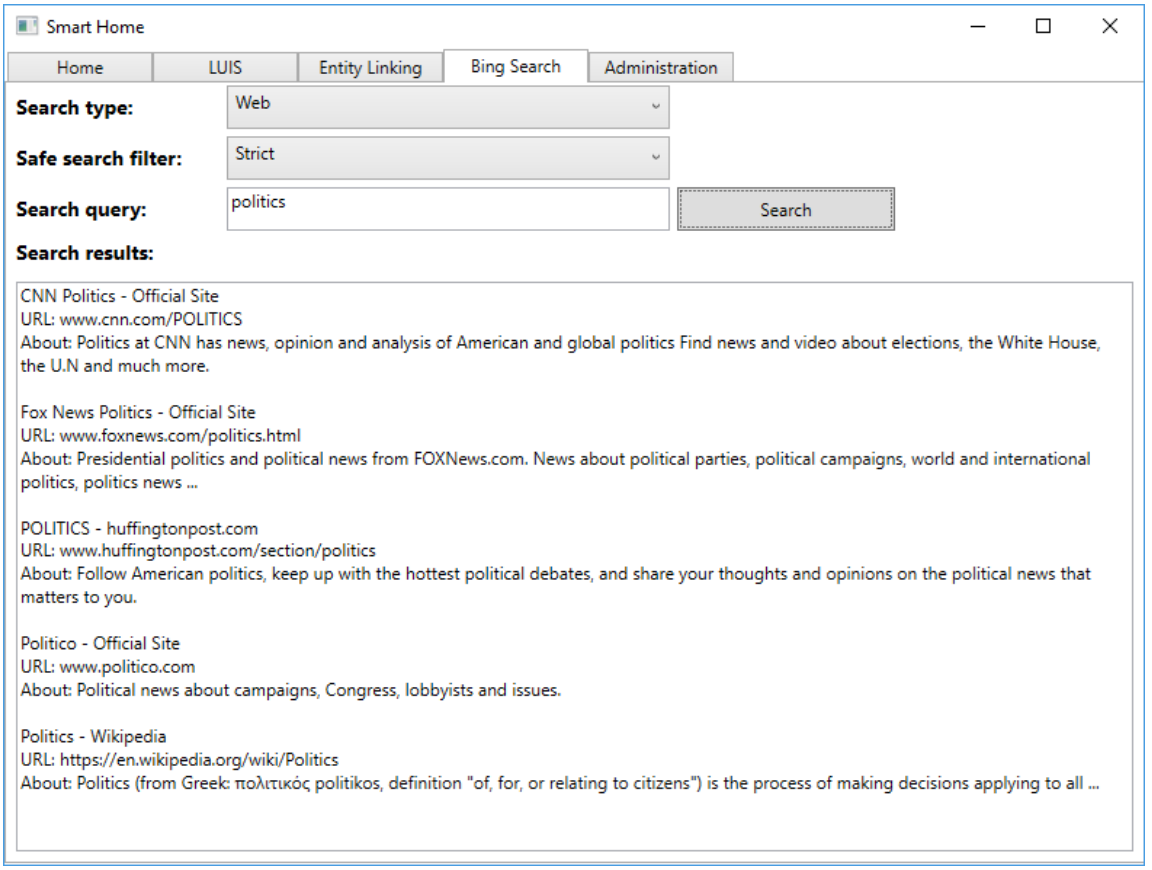

Knowledge Base
Test
Settings
TEST
Chat
installation.
Windows 8.1 & 10: The product key may be embedded on the motherboard or may be on the Certificate of Authenticity sticker on the bottom of the device.
Windows 7: For devices that came with Windows 7 pre-installed, the product key may be on the Certificate of Authenticity sticker on the bottom of the device.
For more information about Windows product keys and genuine Microsoft products, see What is a product key and How to Tell site.
Learning Cognitive Services · 1 min ago
what is wrong with my iso download?
You · Now
If you become disconnected while files are being downloaded through your web browser, reconnect to the internet and retry your download.
Download chat logs | Upload chat logs
Type your message...
Choose the most appropriate answer from these alternatives.
The media creation tool (...
You can use the ISO file ...
If you become disconnecte...
None of the above
Provide multiple alternative phrasings to the question, to broaden the knowledge base.
Add alternative here
what is wrong with my iso...

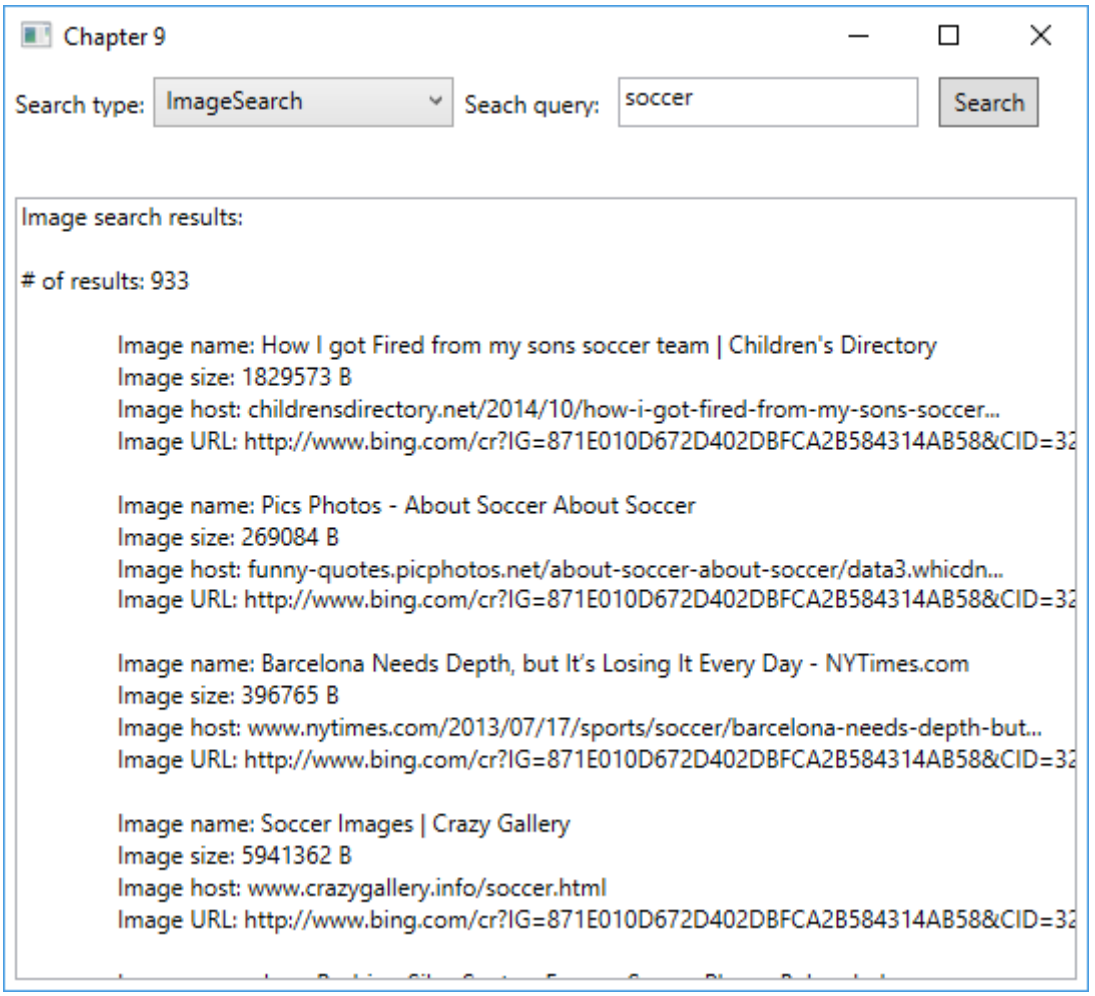

Learning Cognitive Services
Your service has never been deployed.
Review your changes
Source
QnA in production
QnA in current draft
QnA added
QnA deleted
https://www.microsoft.com/en-us/software-download/...
0
27
27
0
Editorial
0
2
2
0
Download Diff File
Cancel
Publish

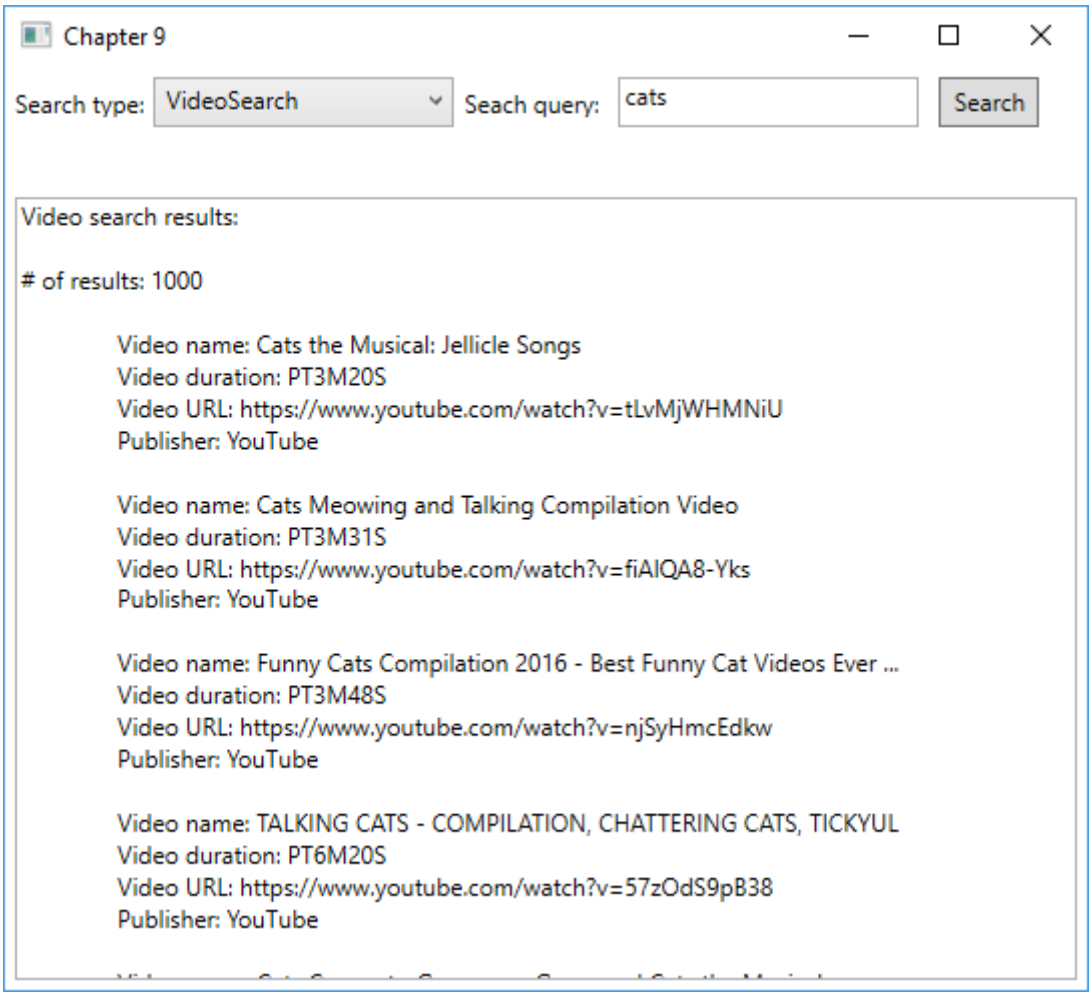

Success! Your service has been deployed. What's next?
You can always find the deployment details in your service's settings.
Use the below HTTP request to build your bot. Learn how.
Sample HTTP request
POST /knowledgebases/ft 55/generateAnswer
Host: https://westus.api.cognitive.microsoft.com/qnamaker/v1.0
Ocp-Apim-Subscription-Key: c3 i744
Content-Type: application/json
{"question":"hi"}
Need to fine-tune and refine? Go back and keep editing your service.
Edit Service

Chapter 9: Adding Specialized Searches

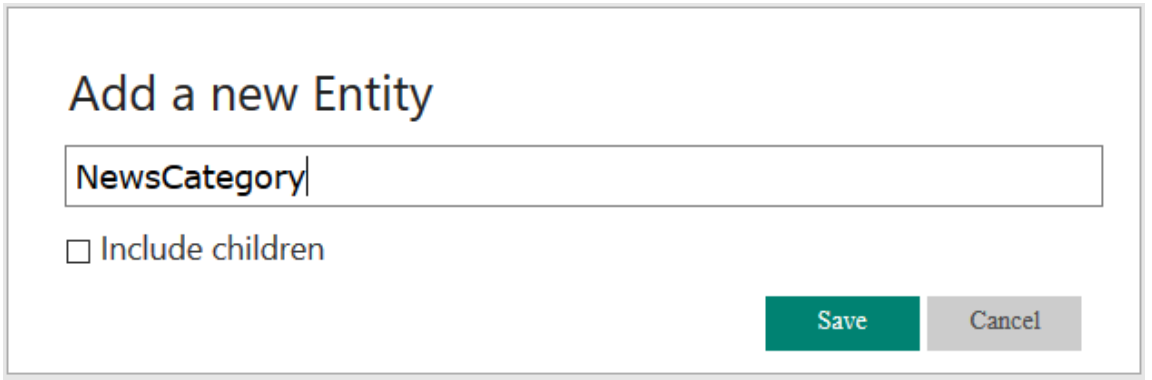


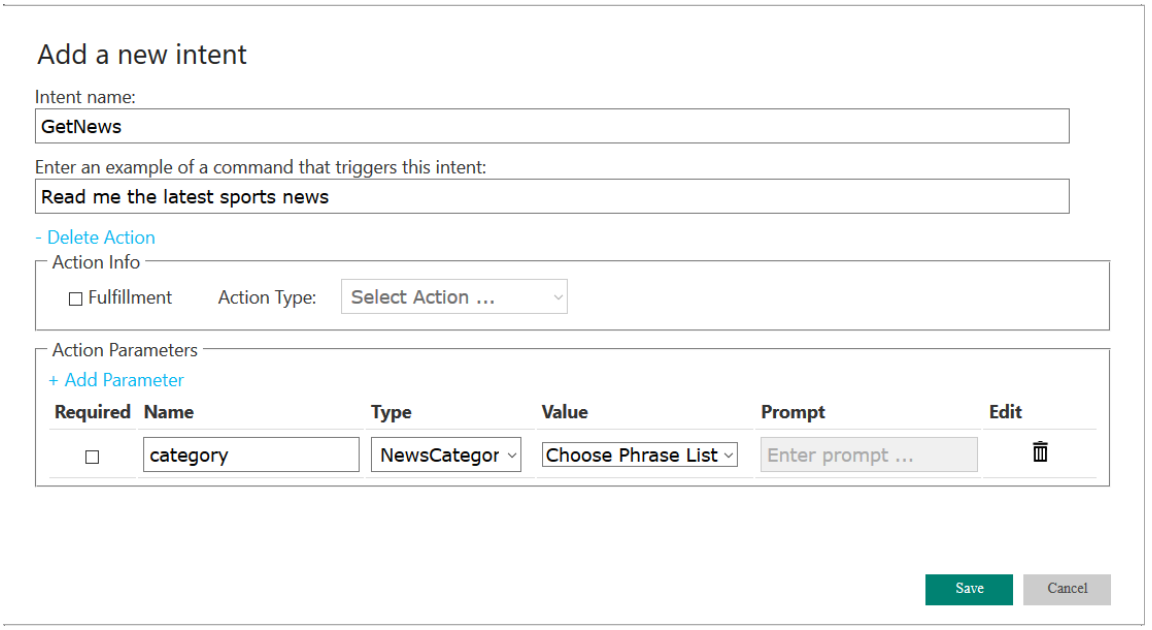

Smart Home
Home
LUIS
Entity Linking
Bing Search
Administration
Search type:
Web
Safe search filter:
Strict
Search query:
politics
Search
Search results:
CNN Politics - Official Site
URL: www.cnn.com/POLITICS
About: Politics at CNN has news, opinion and analysis of American and global politics Find news and video about elections, the White House, the U.N and much more.
Fox News Politics - Official Site
URL: www.foxnews.com/politics.html
About: Presidential politics and political news from FOXNews.com. News about political parties, political campaigns, world and international politics, politics news ...
POLITICS - huffingtonpost.com
URL: www.huffingtonpost.com/section/politics
About: Follow American politics, keep up with the hottest political debates, and share your thoughts and opinions on the political news that matters to you.
Politico - Official Site
URL: www.politico.com
About: Political news about campaigns, Congress, lobbyists and issues.
Politics - Wikipedia
URL: https://en.wikipedia.org/wiki/Politics
About: Politics (from Greek: πολιτικός politikos, definition "of, for, or relating to citizens") is the process of making decisions applying to all ...

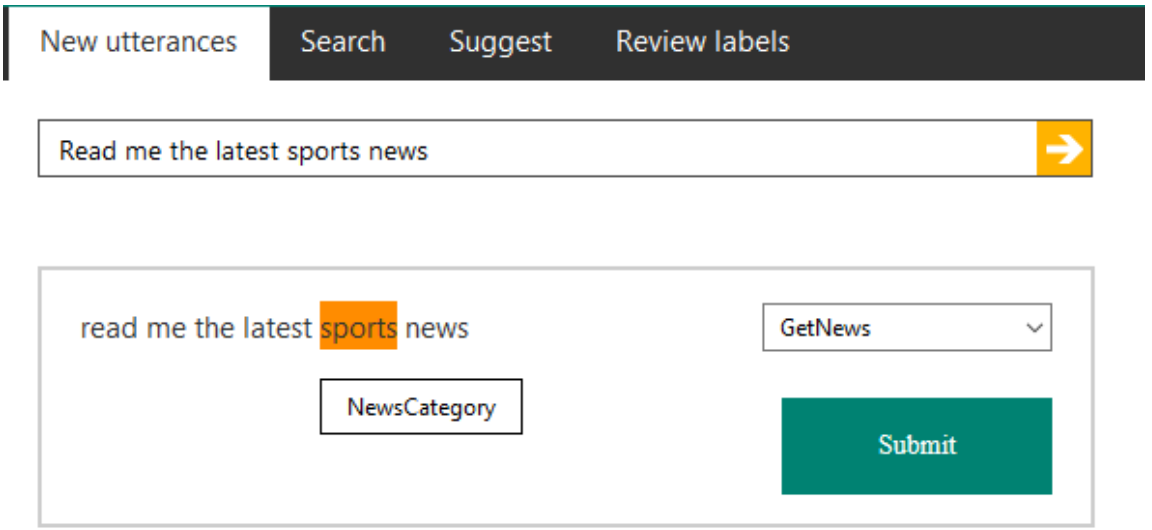

Chapter 9
Search type:
ImageSearch
Seach query:
soccer
Search
Image search results:
# of results: 933
Image name: How I got Fired from my sons soccer team | Children's Directory
Image size: 1829573 B
Image host: childrensdirectory.net/2014/10/how-i-got-fired-from-my-sons-soccer...
Image URL: http://www.bing.com/cr?IG=871E010D672D402DBFCA2B584314AB58&CID=32
Image name: Pics Photos - About Soccer About Soccer
Image size: 269084 B
Image host: funny-quotes.picphotos.net/about-soccer-about-soccer/data3.whicdn...
Image URL: http://www.bing.com/cr?IG=871E010D672D402DBFCA2B584314AB58&CID=32
Image name: Barcelona Needs Depth, but It's Losing It Every Day - NYTimes.com
Image size: 396765 B
Image host: www.nytimes.com/2013/07/17/sports/soccer/barcelona-needs-depth-but...
Image URL: http://www.bing.com/cr?IG=871E010D672D402DBFCA2B584314AB58&CID=32
Image name: Soccer Images | Crazy Gallery
Image size: 5941362 B
Image host: www.crazygallery.info/soccer.html
Image URL: http://www.bing.com/cr?IG=871E010D672D402DBFCA2B584314AB58&CID=32

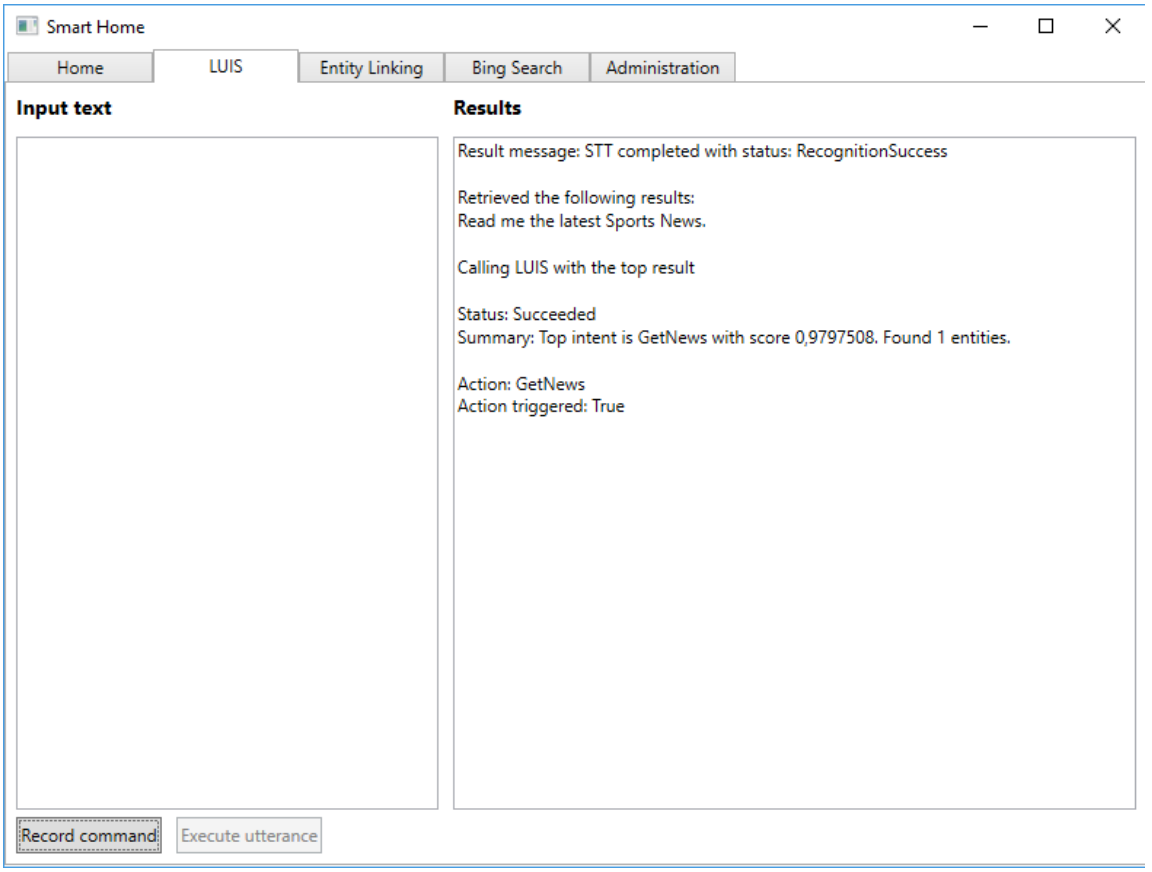

Chapter 9
Search type:
VideoSearch
Seach query:
cats
Search
Video search results:
# of results: 1000
Video name: Cats the Musical: Jellicle Songs
Video duration: PT3M20S
Video URL: https://www.youtube.com/watch?v=tLvMjWHMNiU
Publisher: YouTube
Video name: Cats Meowing and Talking Compilation Video
Video duration: PT3M31S
Video URL: https://www.youtube.com/watch?v=fiAIQA8-Yks
Publisher: YouTube
Video name: Funny Cats Compilation 2016 - Best Funny Cat Videos Ever ...
Video duration: PT3M48S
Video URL: https://www.youtube.com/watch?v=njSyHmcEdkw
Publisher: YouTube
Video name: TALKING CATS - COMPILATION, CHATTERING CATS, TICKYUL
Video duration: PT6M20S
Video URL: https://www.youtube.com/watch?v=57zOdS9pB38
Publisher: YouTube

Chapter 10: Connecting the Pieces






New utterances
Search
Suggest
Review labels
Read me the latest sports news
read me the latest sports news
GetNews
NewsCategory
Submit


Smart Home
Home
LUIS
Entity Linking
Bing Search
Administration
Input text
Results
Result message: STT completed with status: RecognitionSuccess
Retrieved the following results:
Read me the latest Sports News.
Calling LUIS with the top result
Status: Succeeded
Summary: Top intent is GetNews with score 0,9797508. Found 1 entities.
Action: GetNews
Action triggered: True
Record command
Execute utterance