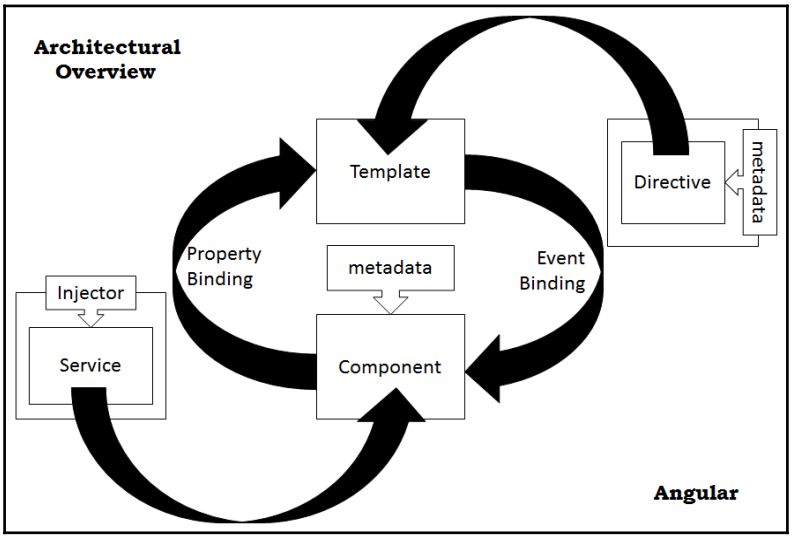
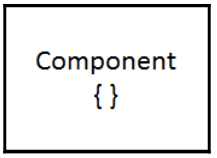
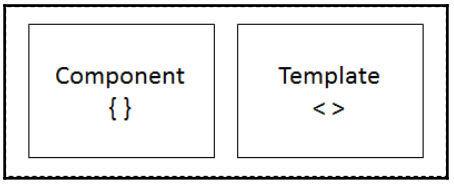
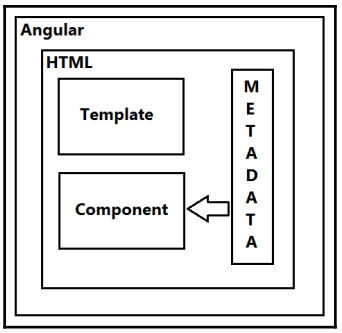
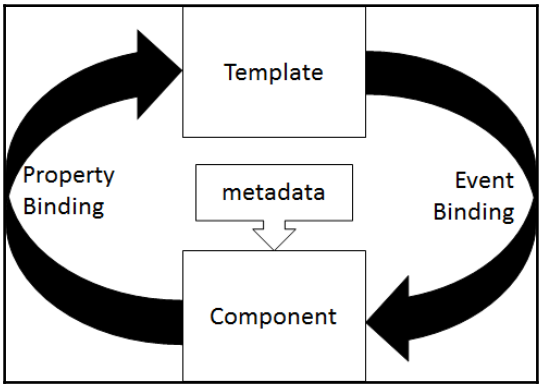
Chapter 1: Architectural Overview and Building a Simple App in Angular

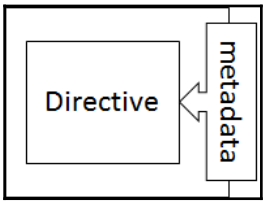




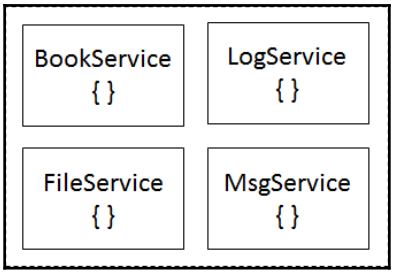


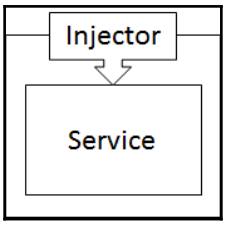

Angular
HTML
Template
Component
METADATA

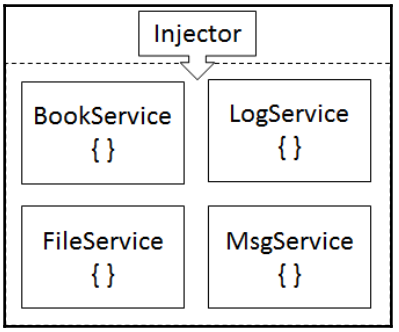

Template
Property Binding
metadata
Event Binding
Component

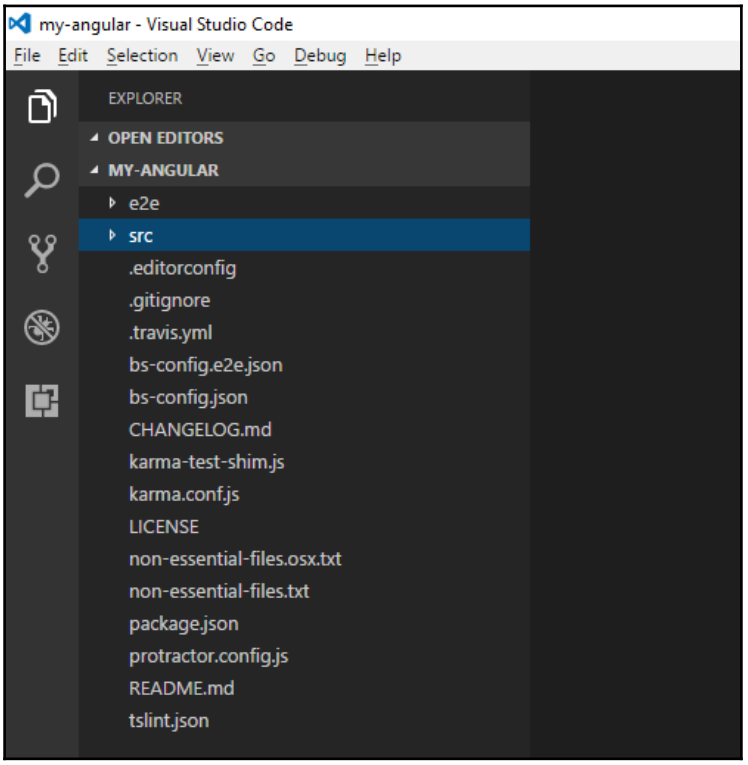

Directive
metadata

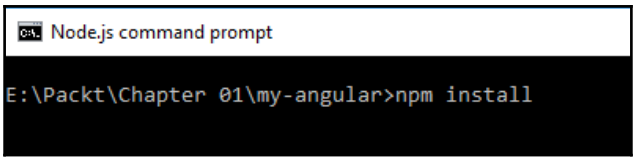
Service
{ }

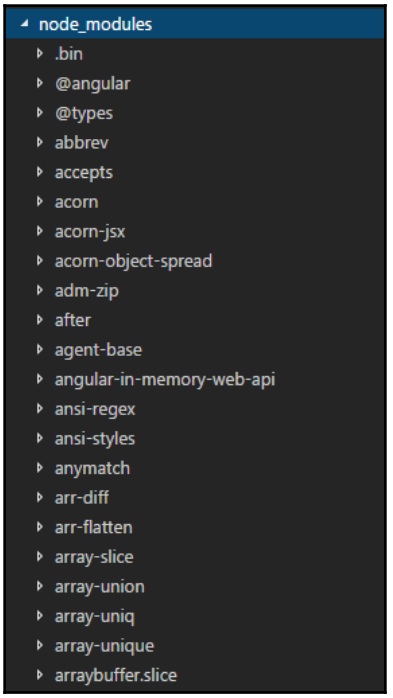

BookService
{ }
LogService
{ }
FileService
{ }
MsgService
{ }


Injector
Service


Injector
BookService
{ }
LogService
{ }
FileService
{ }
MsgService
{ }

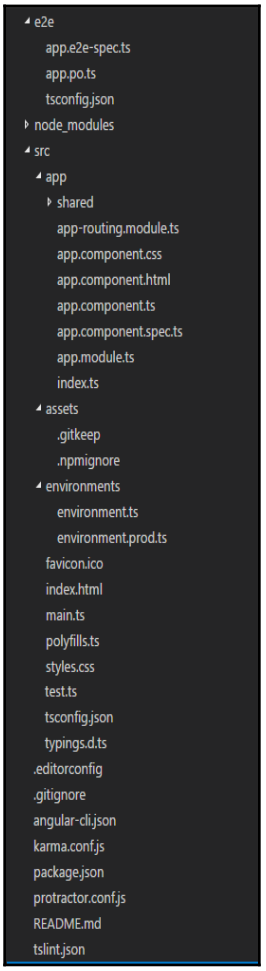

my-angular - Visual Studio Code
File Edit Selection View Go Debug Help
EXPLORER
OPEN EDITORS
MY-ANGULAR
e2e
src
.editorconfig
.gitignore
.travis.yml
bs-config.e2e.json
bs-config.json
CHANGELOG.md
karma-test-shim.js
karma.conf.js
LICENSE
non-essential-files.osx.txt
non-essential-files.txt
package.json
protractor.config.js
README.md
tslint.json


Node.js command prompt
E:\Packt\Chapter 01\my-angular>npm install


node_modules
.bin
@angular
@types
abbrev
accepts
acorn
acorn-jsx
acorn-object-spread
adm-zip
after
agent-base
angular-in-memory-web-api
ansi-regex
ansi-styles
anymatch
arr-diff
arr-flatten
array-slice
array-union
array-uniq
array-unique
arraybuffer.slice

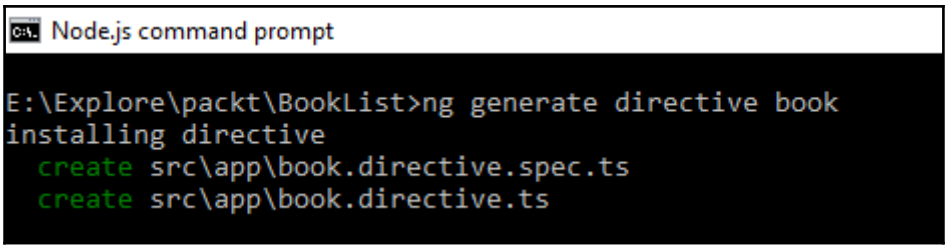
localhost:3000
Dashboards
Flipkart Affiliate Book
Angular
check
Hello Angular

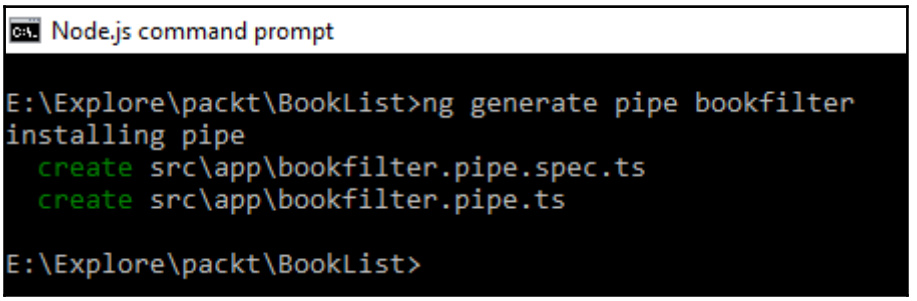
Chapter 3: Using Angular CLI to Generate Angular Apps with Best Practices



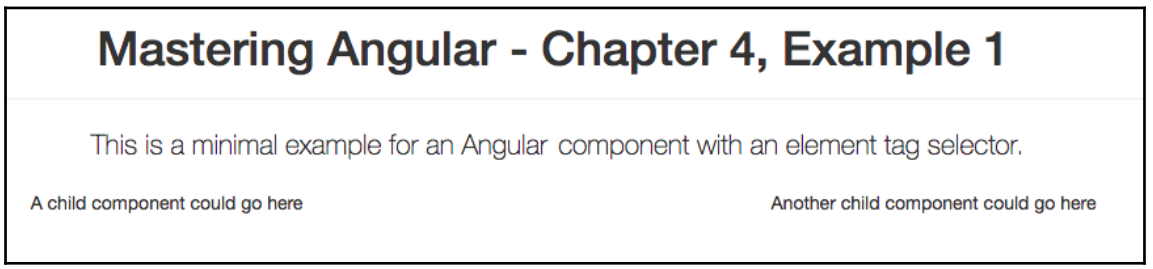
```
Node.js command prompt

E:\Explore\packt\BookList>ng generate component booklist
installing component
  create src\app\booklist\booklist.component.css
  create src\app\booklist\booklist.component.html
  create src\app\booklist\booklist.component.spec.ts
  create src\app\booklist\booklist.component.ts

E:\Explore\packt\BookList>
```

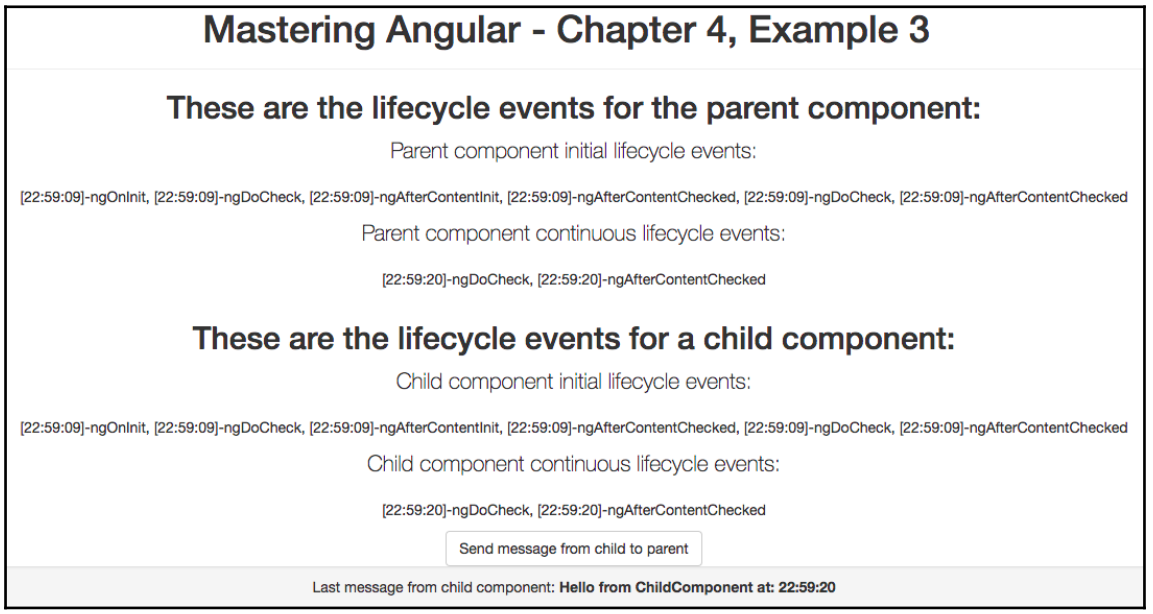
```
Select Node.js command prompt

E:\Explore\packt\BookList>ng g service booklist
installing service
  create src\app\booklist.service.spec.ts
  create src\app\booklist.service.ts
  WARNING Service is generated but not provided, it must be provided to be used

E:\Explore\packt\BookList>
```


Node.js command prompt
E:\Explore\packt\BookList>ng generate directive book
installing directive
create src\app\book.directive.spec.ts
create src\app\book.directive.ts

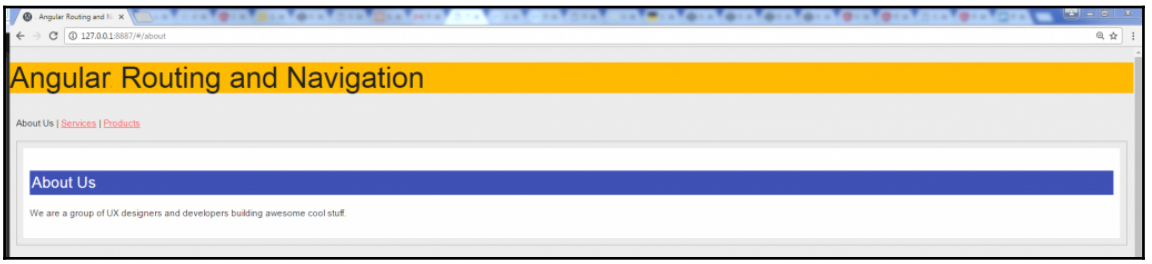

Node.js command prompt
E:\Explore\packt\BookList>ng generate pipe bookfilter
installing pipe
create src\app\bookfilter.pipe.spec.ts
create src\app\bookfilter.pipe.ts
E:\Explore\packt\BookList>

Chapter 4: Working with Components

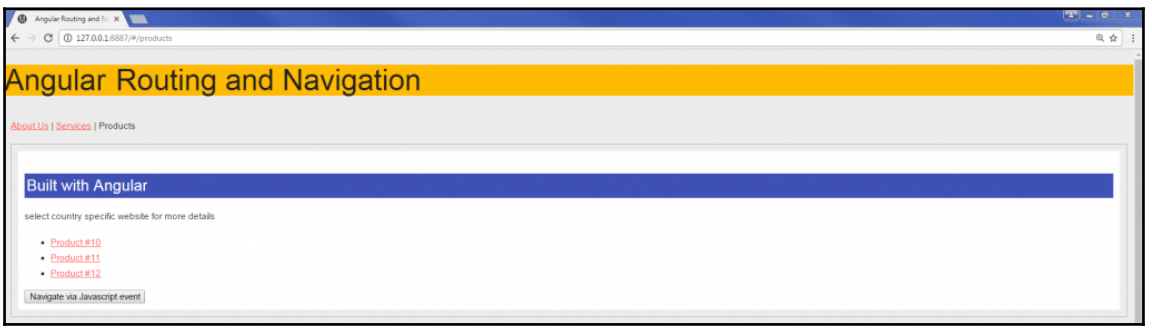




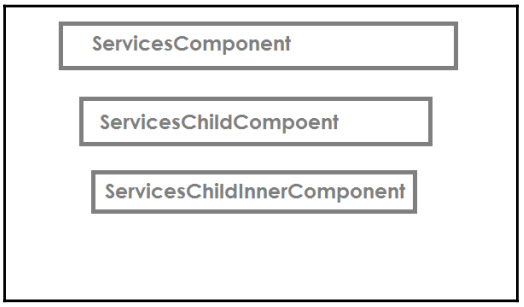
Chapter 5: Implementing Angular Routing and Navigation

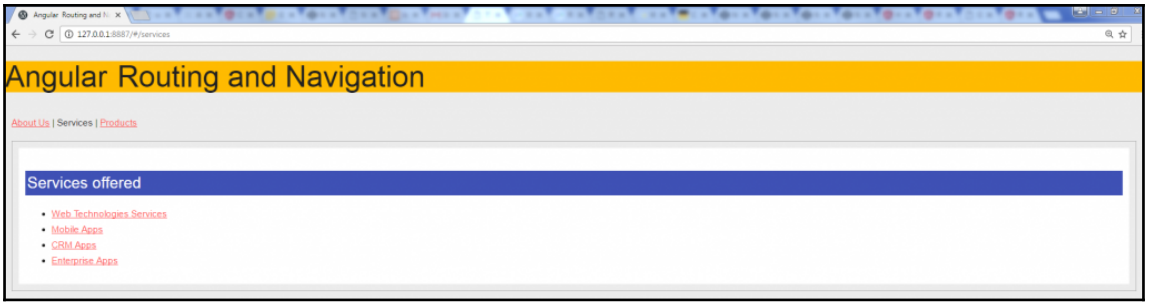


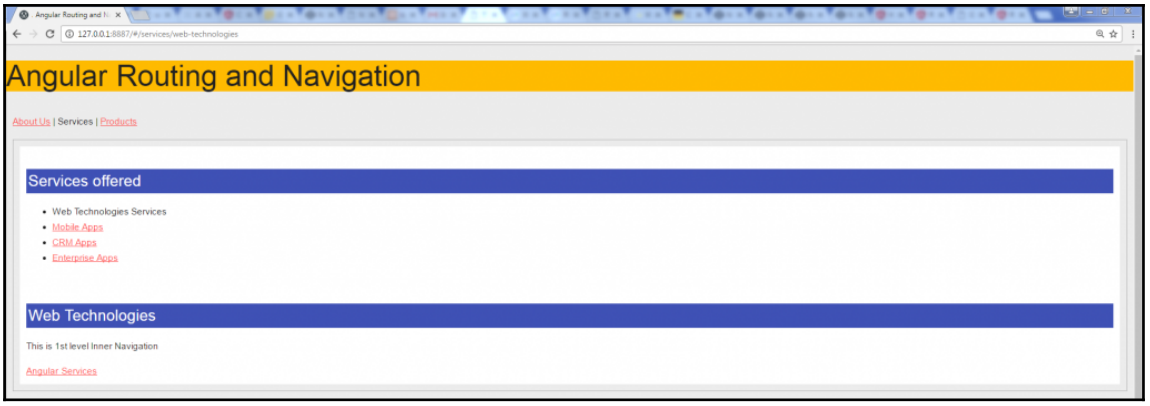

```
App
    Products

    Product 1
    Product 2
    Product 3
```

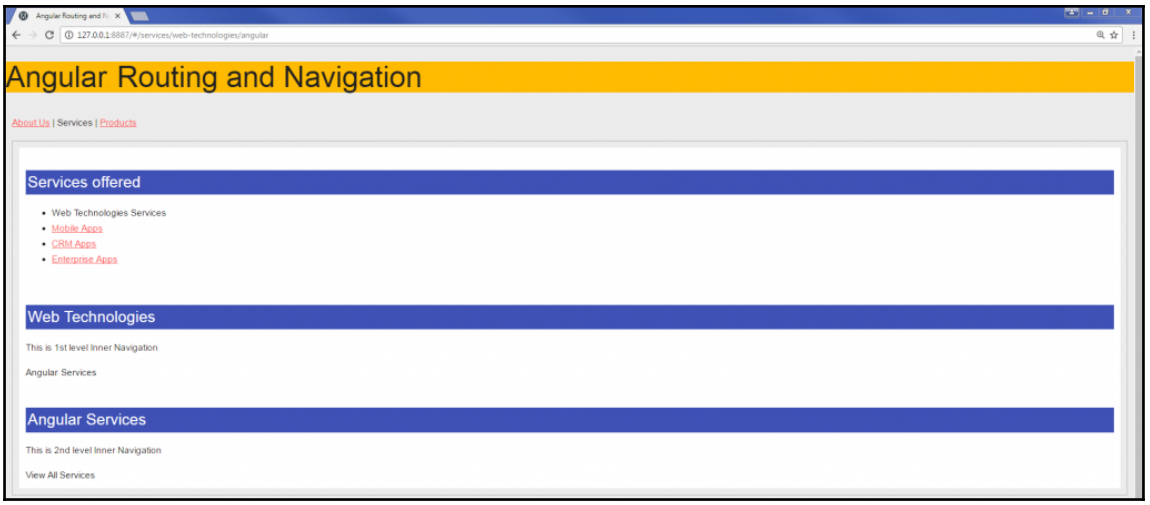


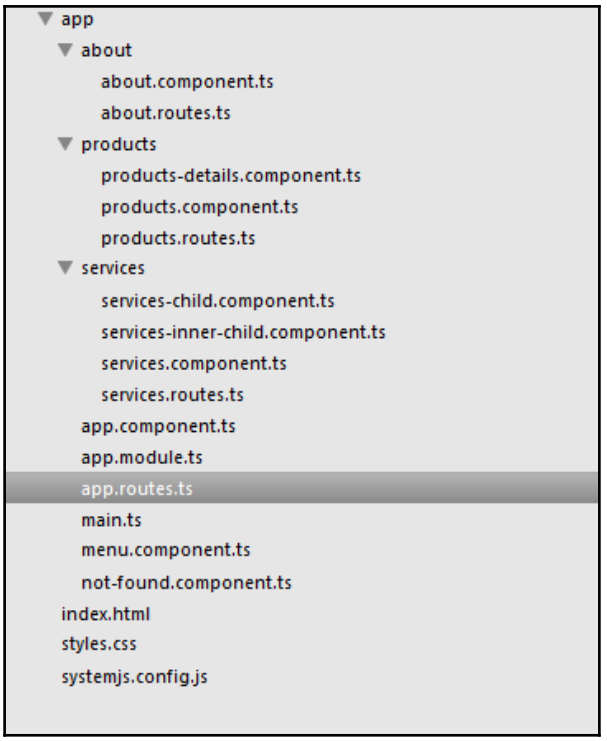
```
App
    Products

    Product 1
    Product 2
    Product 3

    Services
        Web Technologies
            Angular2 Development
```

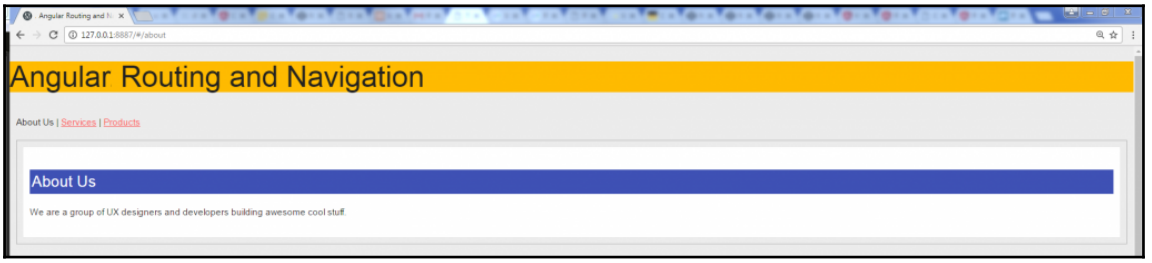


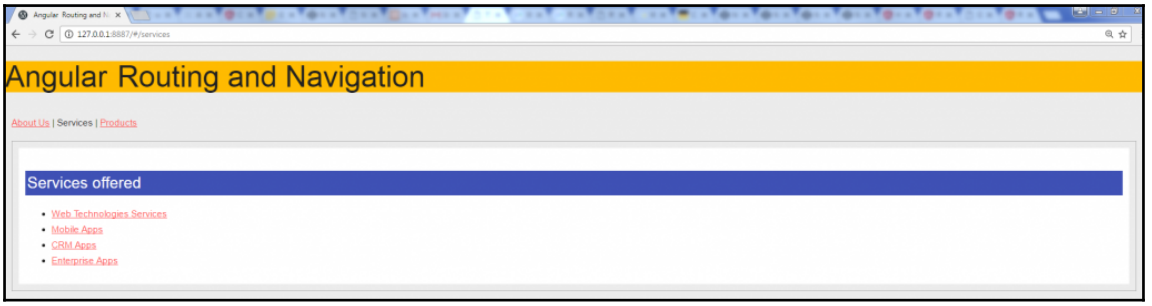


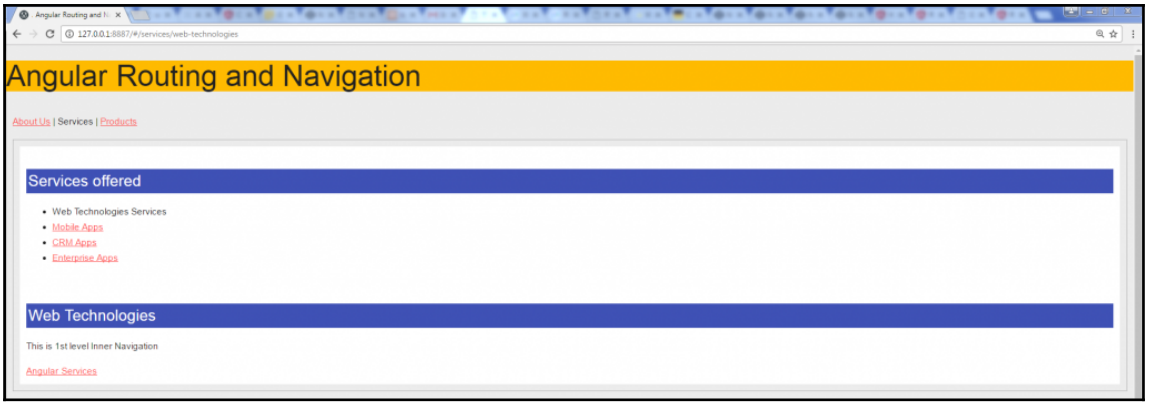

Angular Routing and Navigation
About Us | Services | Products
Services offered
Web Technologies Services
Mobile Apps
CRM Apps
Enterprise Apps
Web Technologies
This is 1st level Inner Navigation
Angular Services

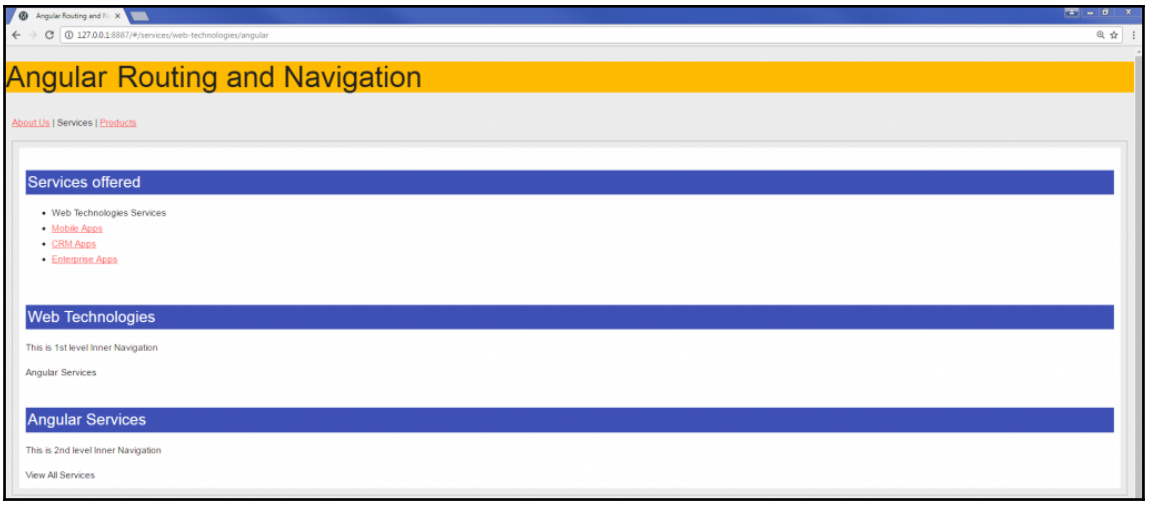

Angular Routing and Navigation
About Us | Services | Products
Services offered
Web Technologies Services
Mobile Apps
CRM Apps
Enterprise Apps
Web Technologies
This is 1st level Inner Navigation
Angular Services
Angular Services
This is 2nd level Inner Navigation
View All Services

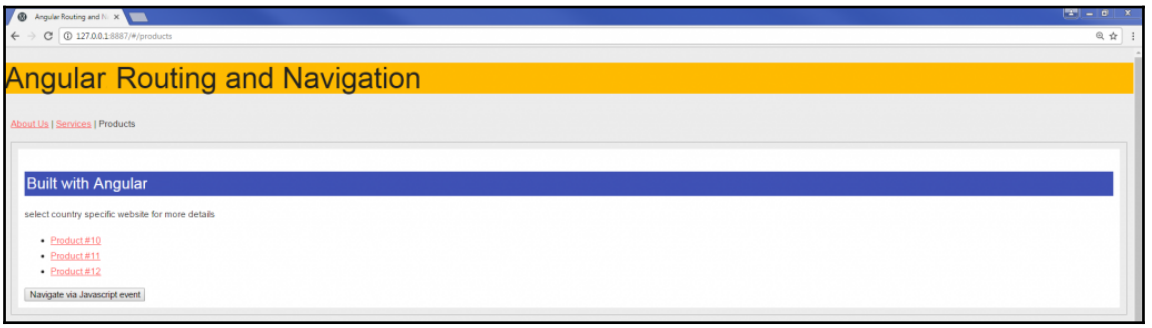

app
about
about.component.ts
about.routes.ts
products
products-details.component.ts
products.component.ts
products.routes.ts
services
services-child.component.ts
services-inner-child.component.ts
services.component.ts
services.routes.ts
app.component.ts
app.module.ts
app.routes.ts
main.ts
menu.component.ts
not-found.component.ts
index.html
styles.css
systemjs.config.js


Angular Routing and Navigation
About Us | Services | Products
About Us
We are a group of UX designers and developers building awesome cool stuff.


Angular Routing and Navigation
About Us | Services | Products
Services offered
Web Technologies Services
Mobile Apps
CRM Apps
Enterprise Apps

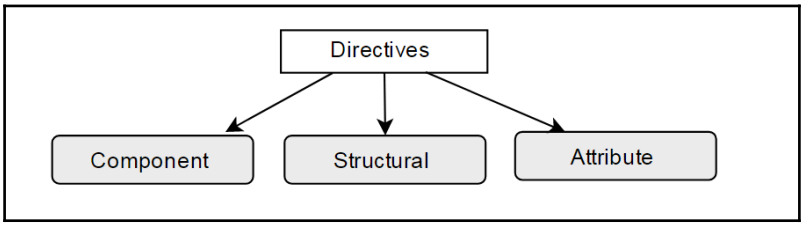

Angular Routing and Navigation
About Us | Services | Products
Services offered
Web Technologies Services
Mobile Apps
CRM Apps
Enterprise Apps
Web Technologies
This is 1st level Inner Navigation
Angular Services

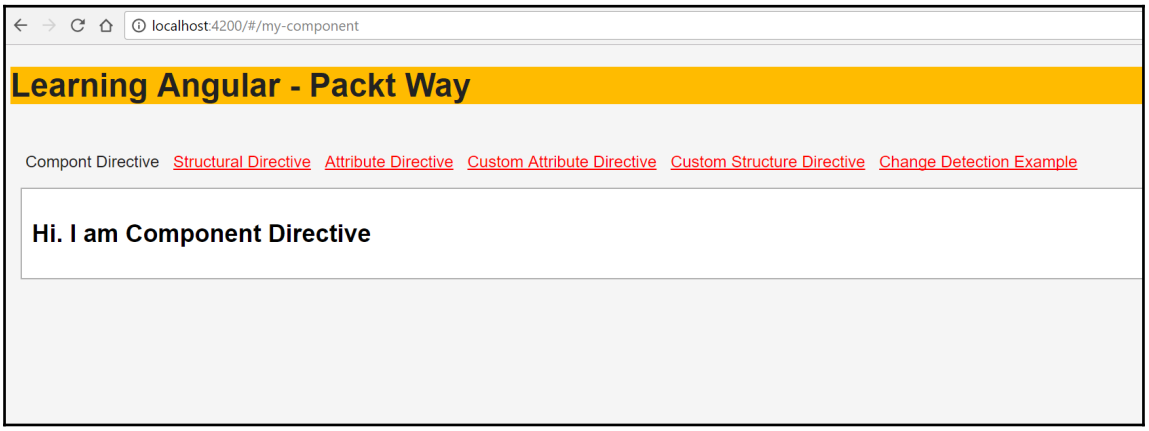

Angular Routing and Navigation
About Us | Services | Products
Services offered
Web Technologies Services
Mobile Apps
CRM Apps
Enterprise Apps
Web Technologies
This is 1st level Inner Navigation
Angular Services
Angular Services
This is 2nd level Inner Navigation
View All Services

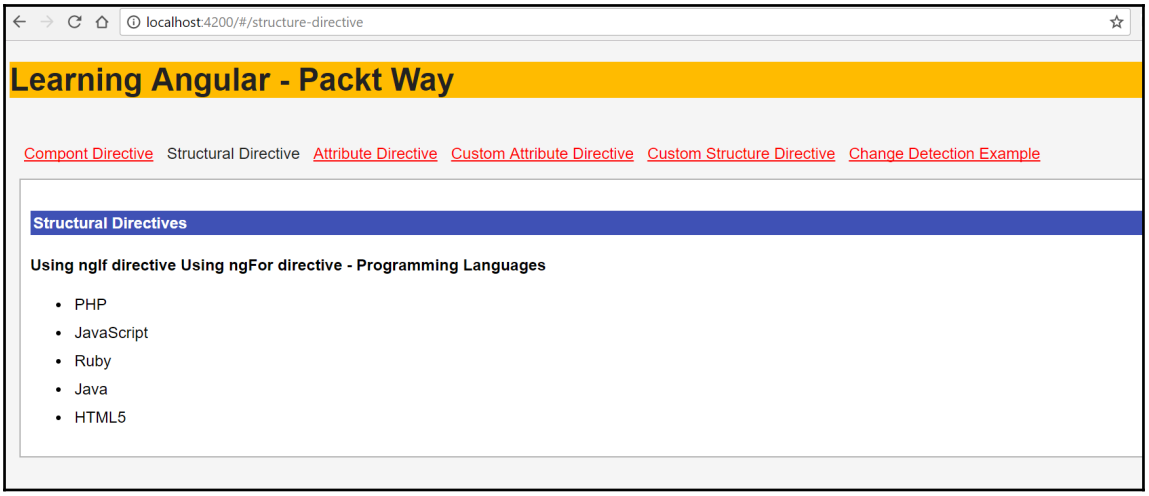

Angular Routing and Navigation
About Us | Services | Products
Built with Angular
select country specific website for more details
Product #10
Product #11
Product #12
Navigate via Javascript event

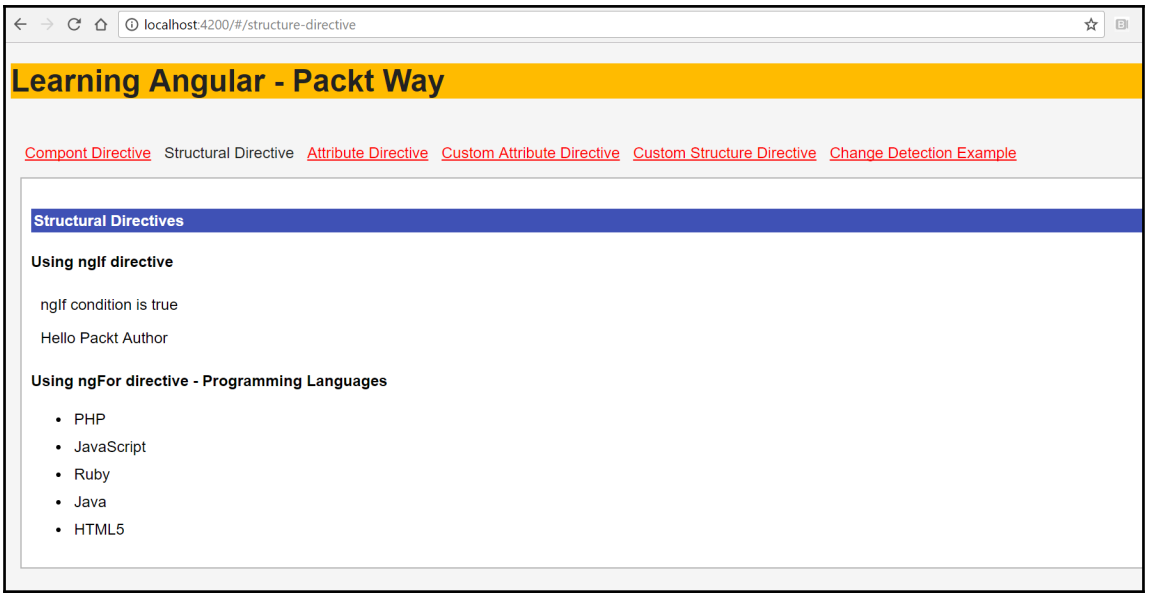
Angular Routing and Navigation
About Us | Services | Products
Product Demo Information
This is a page navigation for child pages
showing product with Id: 10
All products

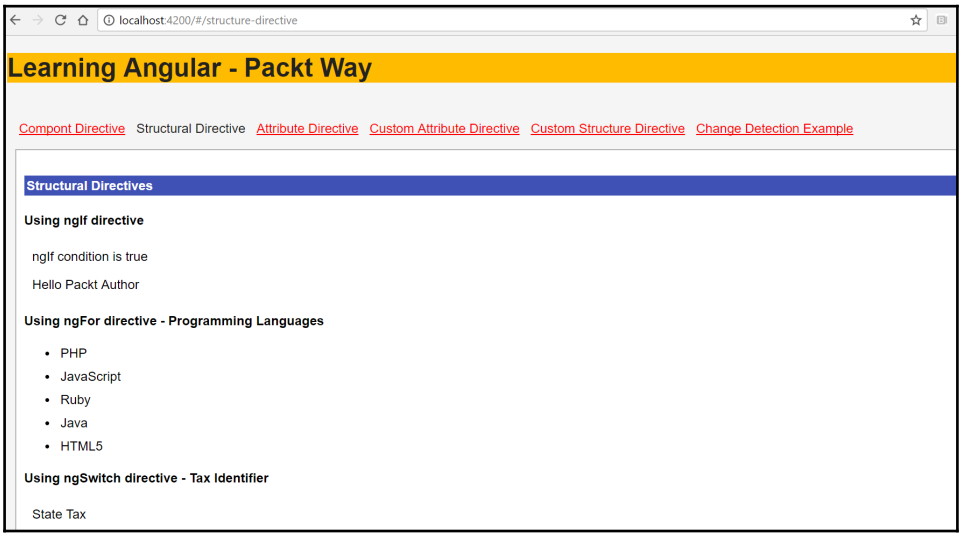
Chapter 6: Creating Directives and Implementing Change Detection

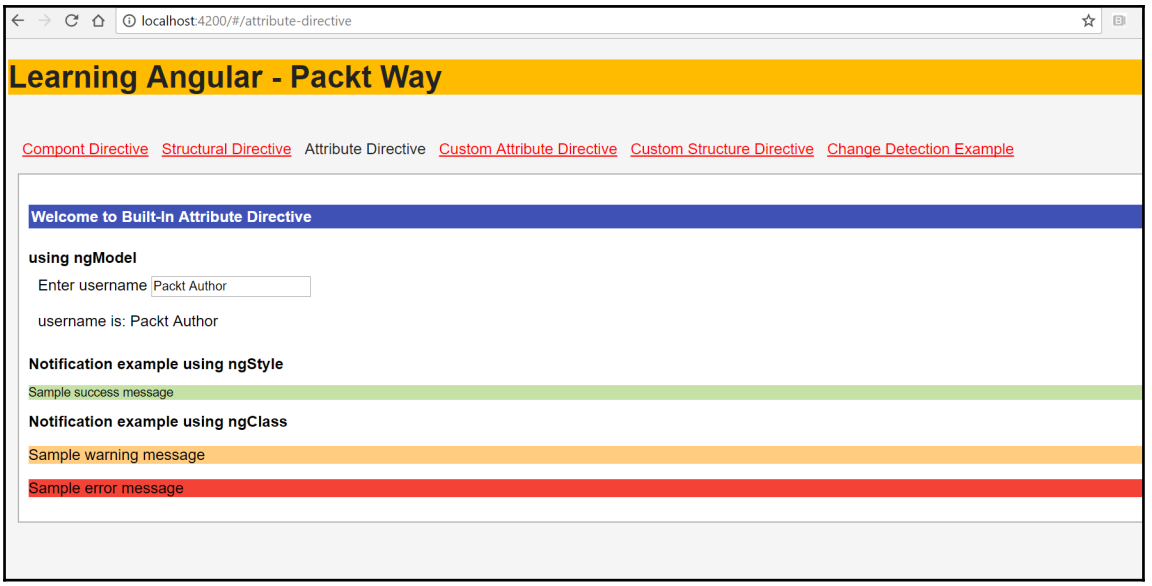


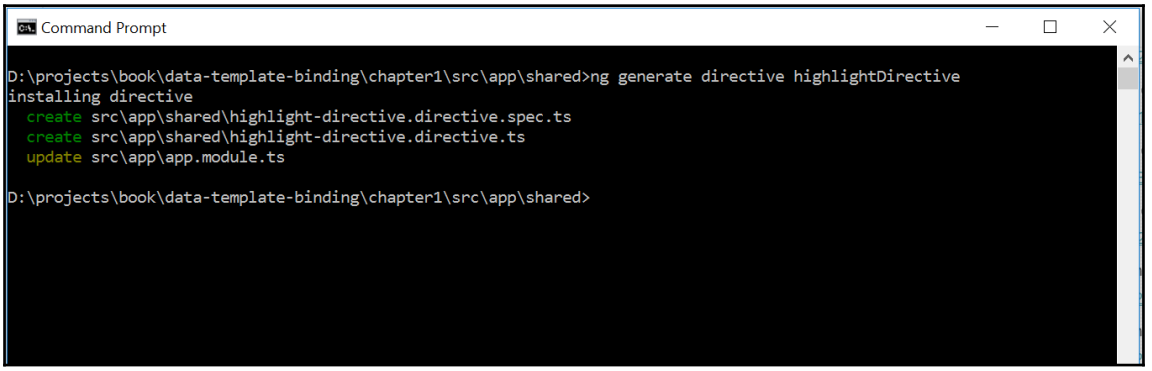





localhost:4200/#/structure-directive
Learning Angular - Packt Way
Compont Directive
Structural Directive
Attribute Directive
Custom Attribute Directive
Custom Structure Directive
Change Detection Example
Structural Directives
Using ngIf directive
ngIf condition is true
Hello Packt Author
Using ngFor directive - Programming Languages
PHP
JavaScript
Ruby
Java
HTML5

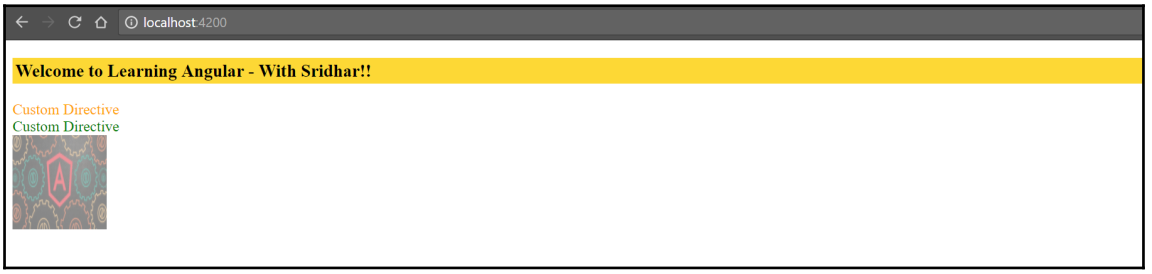

localhost:4200/#/structure-directive
Learning Angular - Packt Way
Compont Directive
Structural Directive
Attribute Directive
Custom Attribute Directive
Custom Structure Directive
Change Detection Example
Structural Directives
Using ngIf directive
ngIf condition is true
Hello Packt Author
Using ngFor directive - Programming Languages
PHP
JavaScript
Ruby
Java
HTML5
Using ngSwitch directive - Tax Identifier
State Tax

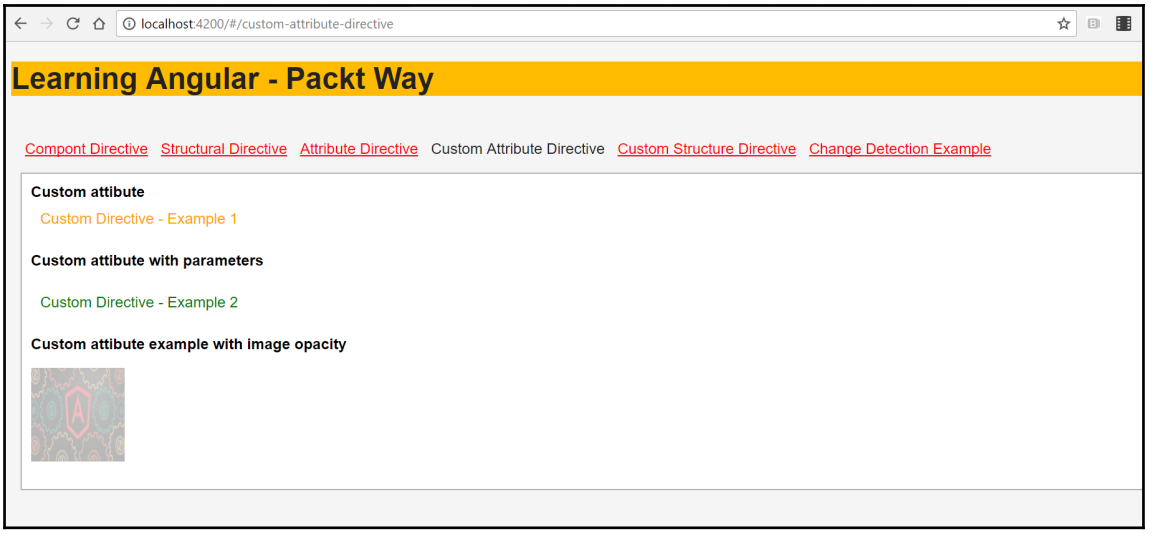

localhost:4200/#/attribute-directive
Learning Angular - Packt Way
Compont Directive
Structural Directive
Attribute Directive
Custom Attribute Directive
Custom Structure Directive
Change Detection Example
Welcome to Built-In Attribute Directive
using ngModel
Enter username
Packt Author
username is: Packt Author
Notification example using ngStyle
Sample success message
Notification example using ngClass
Sample warning message
Sample error message

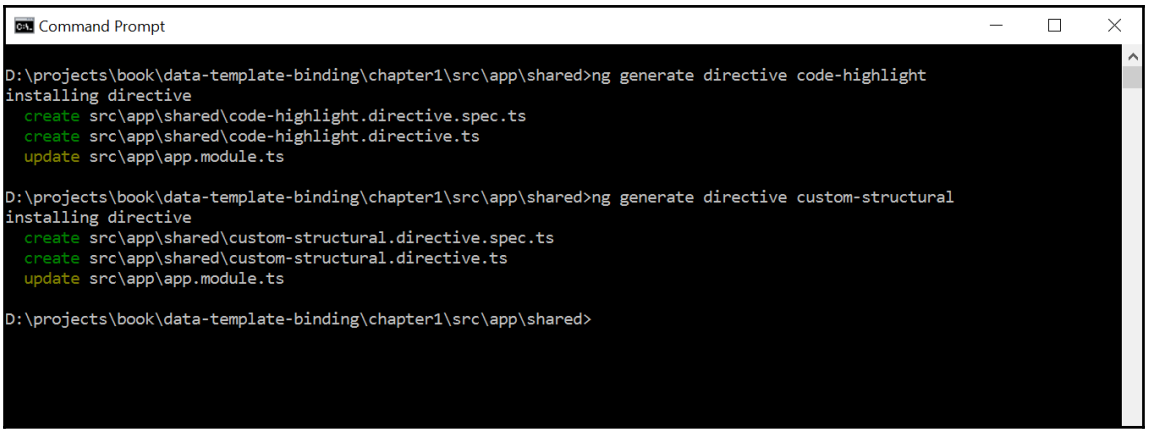

Command Prompt
D:\projects\book\data-template-binding\chapter1\src\app\shared>ng generate directive highlightDirective
installing directive
create src\app\shared\highlight-directive.directive.spec.ts
create src\app\shared\highlight-directive.directive.ts
update src\app\app.module.ts
D:\projects\book\data-template-binding\chapter1\src\app\shared>

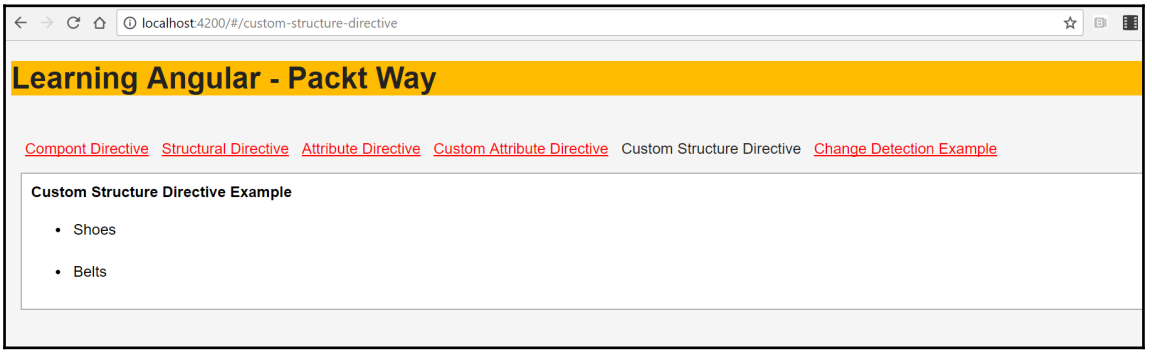
localhost:4200
Welcome to Learning Angular - With Sridhar!!
Custom Directive

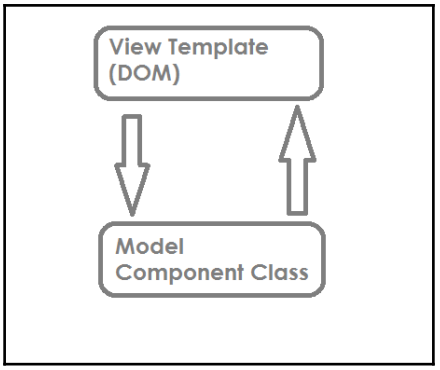
localhost:4200
Welcome to Learning Angular - With Sridhar!!
Custom Directive
Custom Directive

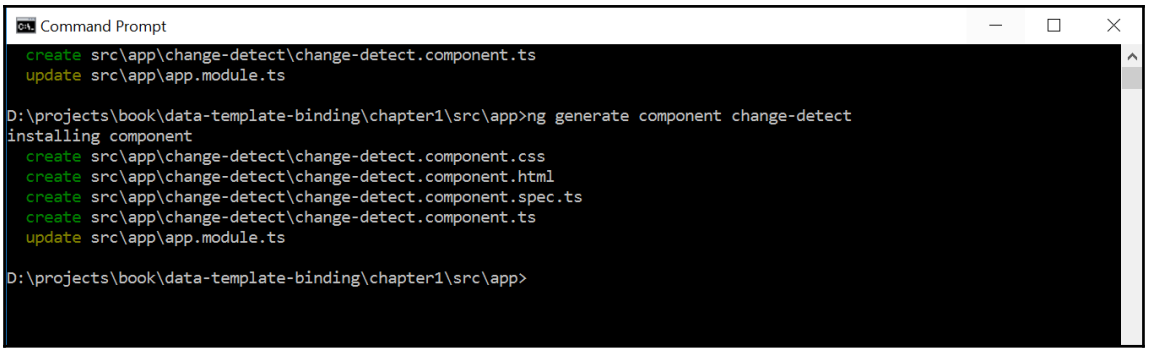

localhost:4200
Welcome to Learning Angular - With Sridhar!!
Custom Directive
Custom Directive

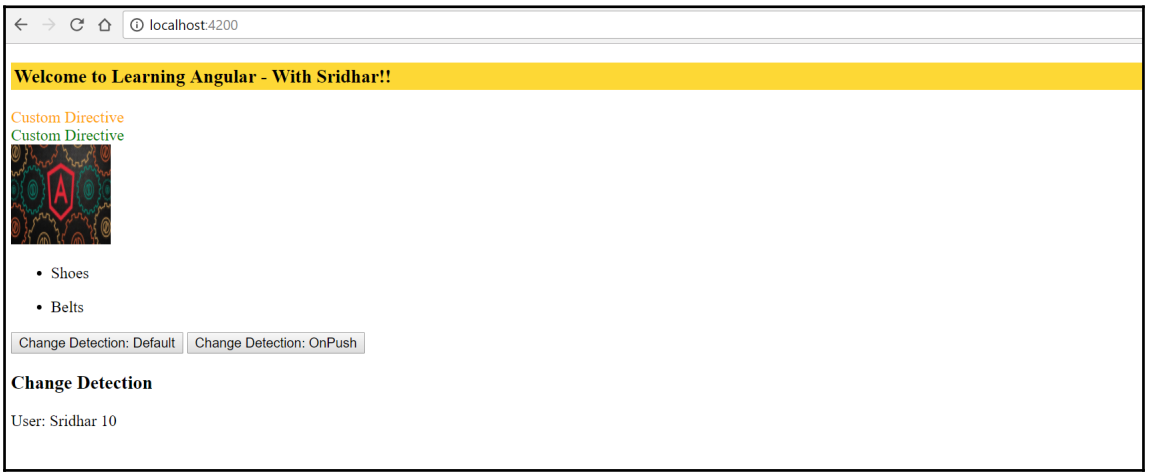

localhost:4200/#/custom-attribute-directive
Learning Angular - Packt Way
Compont Directive
Structural Directive
Attribute Directive
Custom Attribute Directive
Custom Structure Directive
Change Detection Example
Custom attibute
Custom Directive - Example 1
Custom attibute with parameters
Custom Directive - Example 2
Custom attibute example with image opacity


Command Prompt
D:\projects\book\data-template-binding\chapter1\src\app\shared>ng generate directive code-highlight
installing directive
create src\app\shared\code-highlight.directive.spec.ts
create src\app\shared\code-highlight.directive.ts
update src\app\app.module.ts
D:\projects\book\data-template-binding\chapter1\src\app\shared>ng generate directive custom-structural
installing directive
create src\app\shared\custom-structural.directive.spec.ts
create src\app\shared\custom-structural.directive.ts
update src\app\app.module.ts
D:\projects\book\data-template-binding\chapter1\src\app\shared>

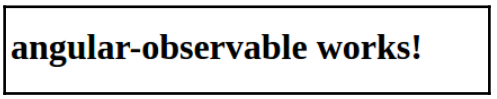

localhost:4200/#/custom-structure-directive
Learning Angular - Packt Way
Compont Directive
Structural Directive
Attribute Directive
Custom Attribute Directive
Custom Structure Directive
Change Detection Example
Custom Structure Directive Example
Shoes
Belts

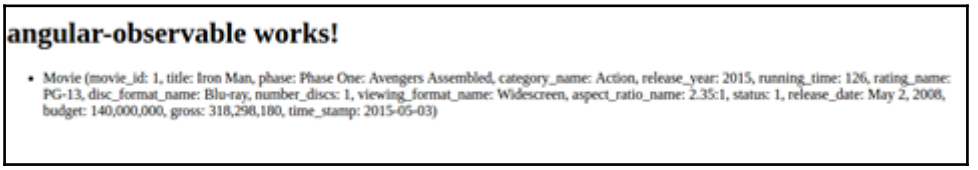

View Template
(DOM)
Model
Component Class

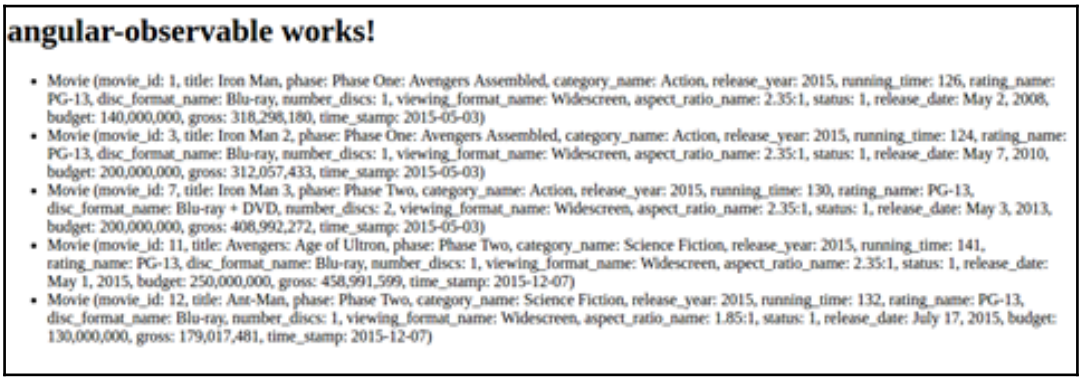

Command Prompt
create src\app\change-detect\change-detect.component.ts
update src\app\app.module.ts
D:\projects\book\data-template-binding\chapter1\src\app>ng generate component change-detect
installing component
create src\app\change-detect\change-detect.component.css
create src\app\change-detect\change-detect.component.html
create src\app\change-detect\change-detect.component.spec.ts
create src\app\change-detect\change-detect.component.ts
update src\app\app.module.ts
D:\projects\book\data-template-binding\chapter1\src\app>


localhost:4200
Welcome to Learning Angular - With Sridhar!!
Custom Directive
Custom Directive
Shoes
Belts
Change Detection: Default
Change Detection: OnPush
Change Detection
User: Sridhar 10

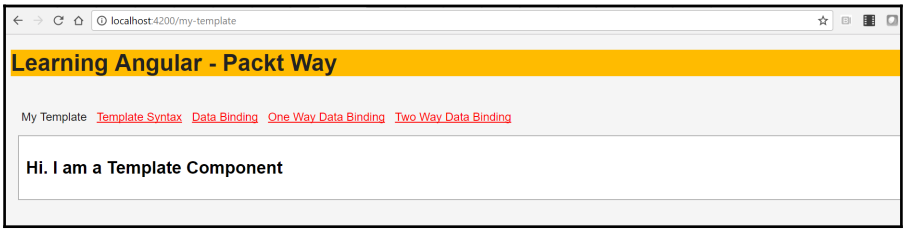
Chapter 7: Asynchronous Programming Using Observables

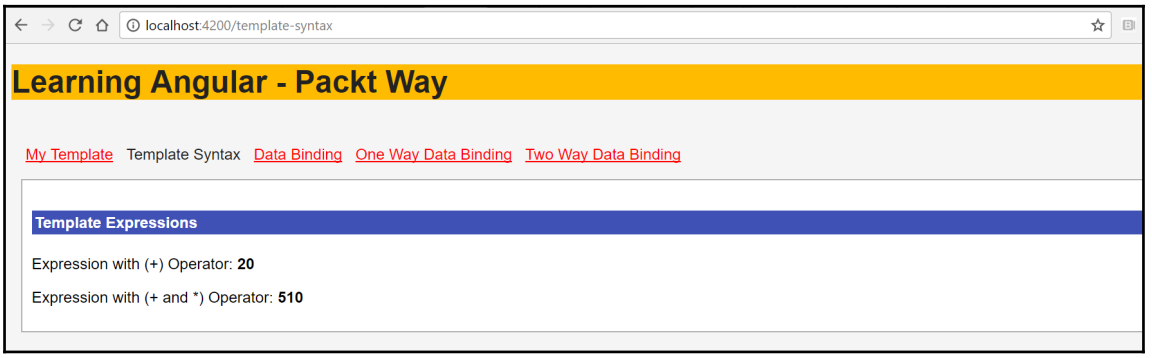


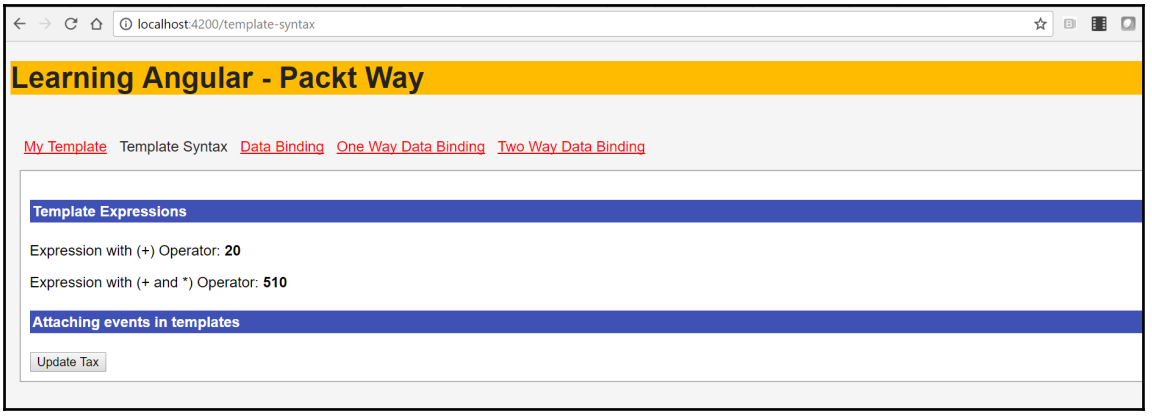


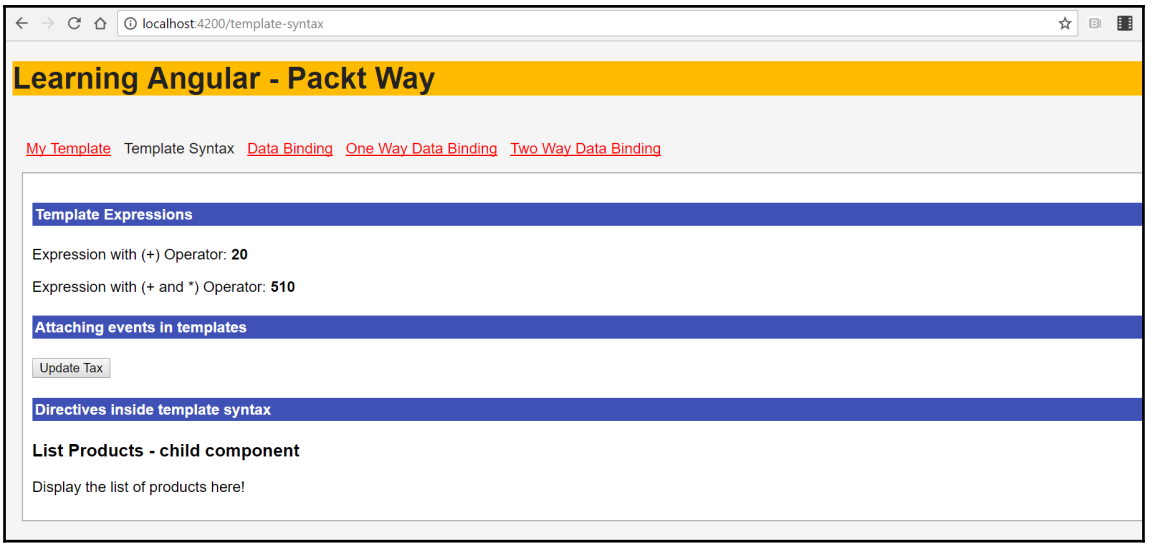


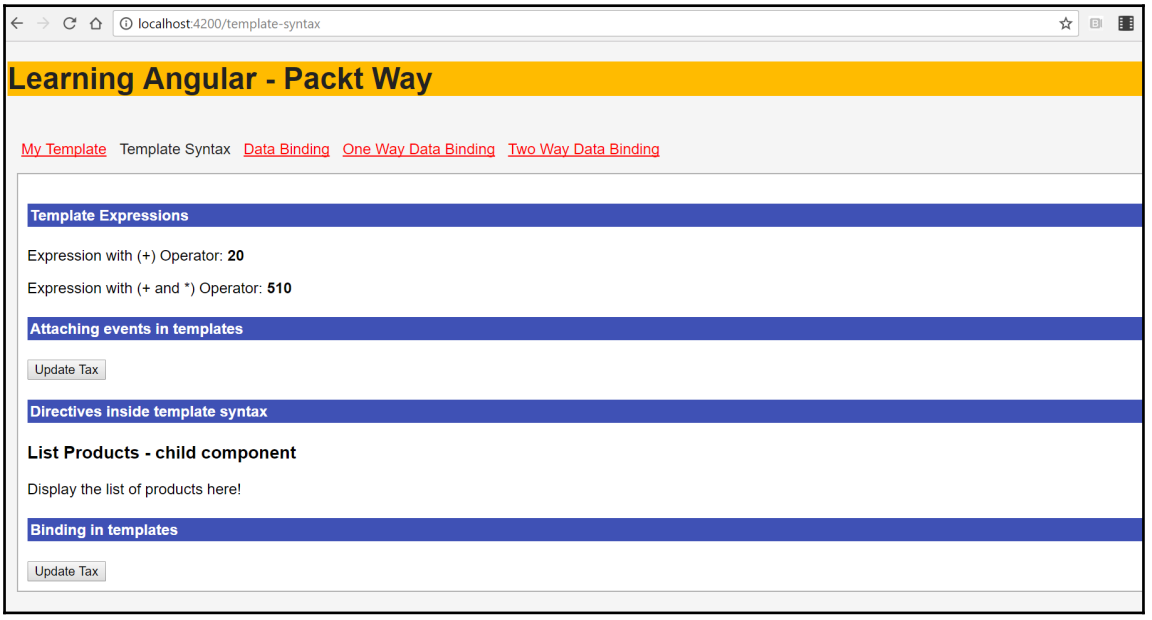
Chapter 8: Template and Data Binding Syntax

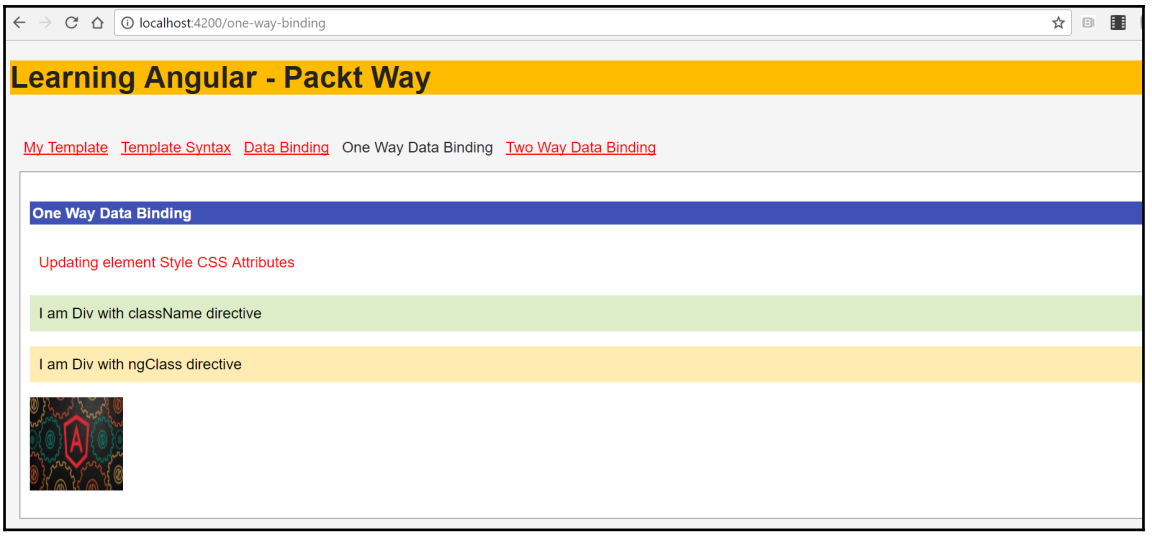


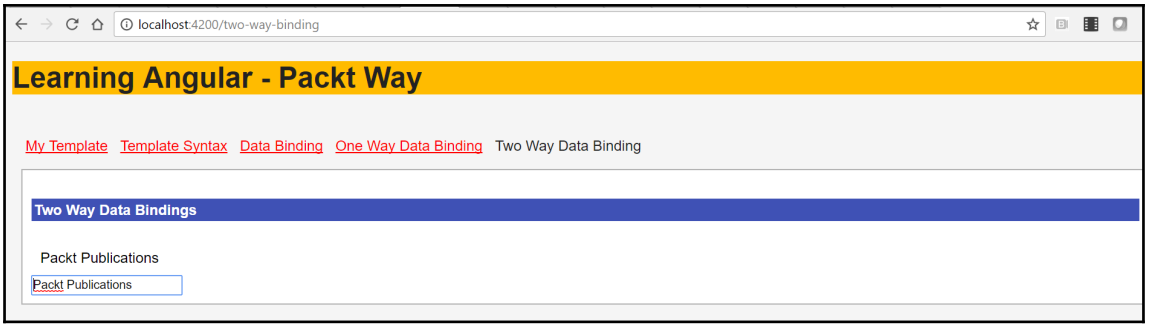





localhost:4200/template-syntax
Learning Angular - Packt Way
My Template
Template Syntax
Data Binding
One Way Data Binding
Two Way Data Binding
Template Expressions
Expression with (+) Operator: 20
Expression with (+ and *) Operator: 510
Attaching events in templates
Update Tax
Directives inside template syntax
List Products - child component
Display the list of products here!


localhost:4200/template-syntax
Learning Angular - Packt Way
My Template
Template Syntax
Data Binding
One Way Data Binding
Two Way Data Binding
Template Expressions
Expression with (+) Operator: 20
Expression with (+ and *) Operator: 510
Attaching events in templates
Update Tax
Directives inside template syntax
List Products - child component
Display the list of products here!
Binding in templates
Update Tax

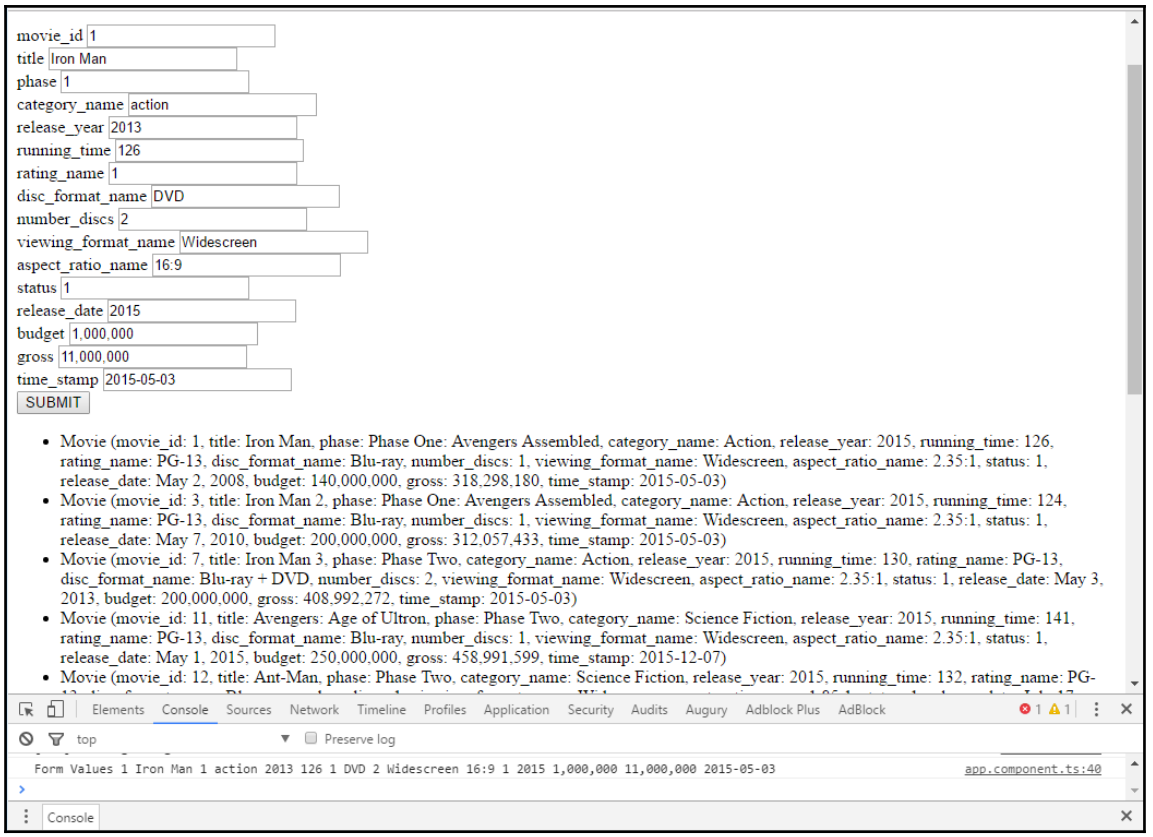

localhost:4200/one-way-binding
Learning Angular - Packt Way
My Template
Template Syntax
Data Binding
One Way Data Binding
Two Way Data Binding
One Way Data Binding
Updating element Style CSS Attributes
I am Div with className directive
I am Div with ngClass directive

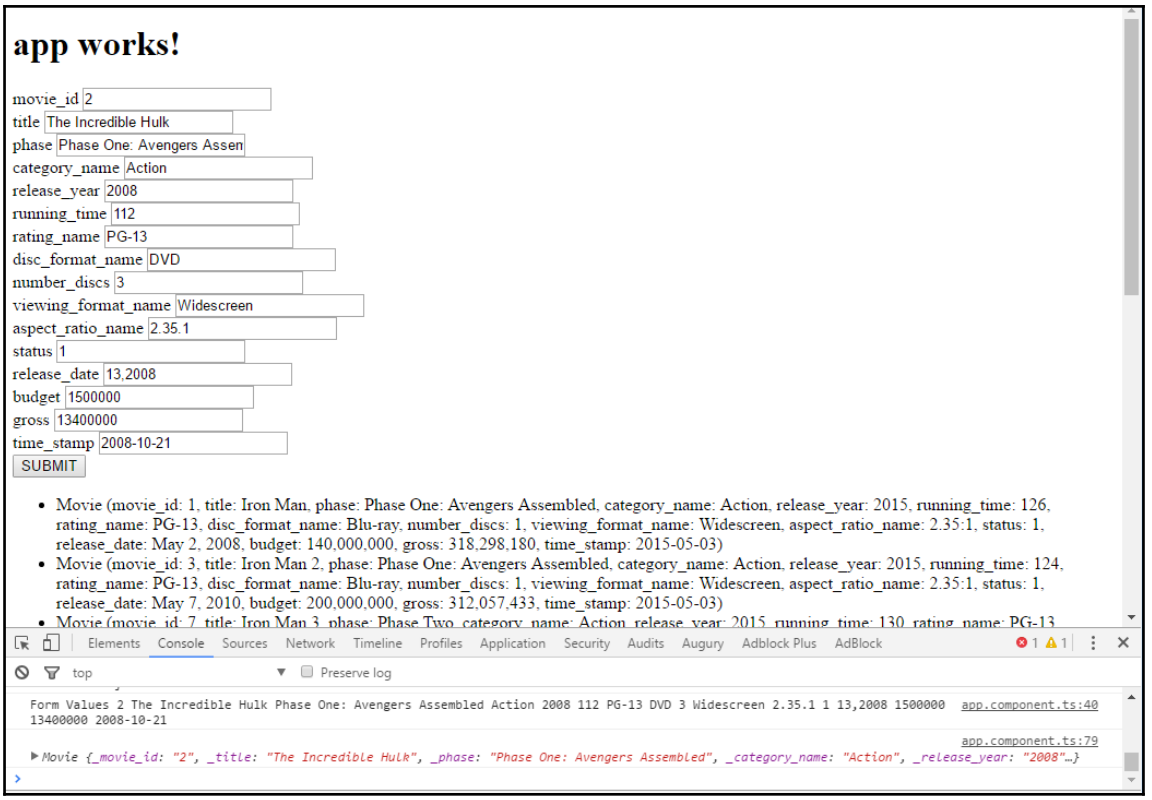

localhost:4200/two-way-binding
Learning Angular - Packt Way
My Template
Template Syntax
Data Binding
One Way Data Binding
Two Way Data Binding
Two Way Data Bindings
Packt Publications
Packt Publications

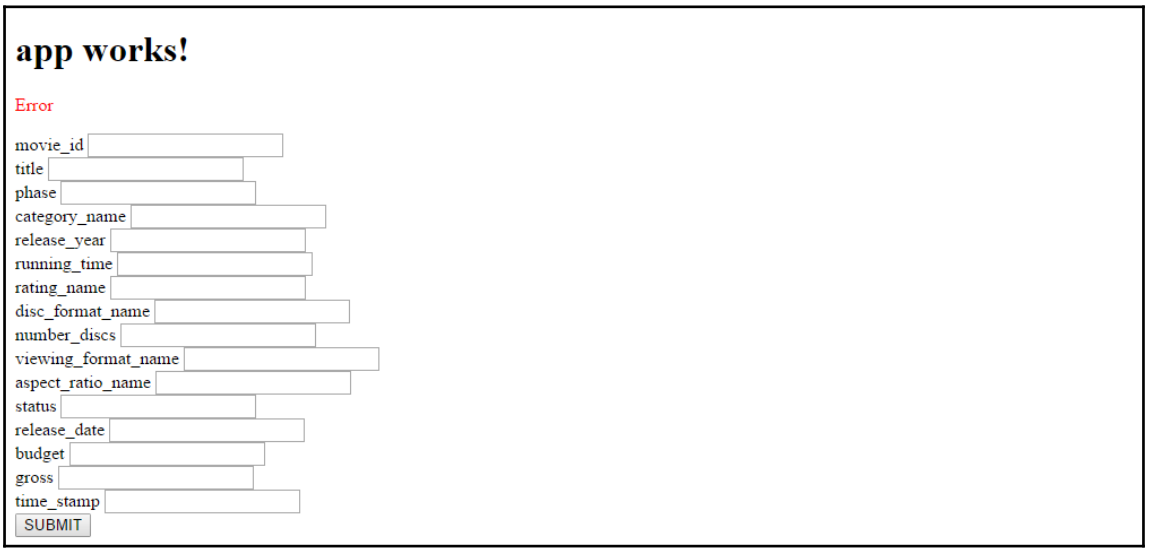
Chapter 9: Advanced Forms in Angular

app works!

- Movie (movie_id: 1, title: Iron Man, phase: Phase One: Avengers Assembled, category_name: Action, release_year: 2015, running_time: 126, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 2, 2008, budget: 140,000,000, gross: 318,298,180, time_stamp: 2015-05-03)
- Movie (movie_id: 3, title: Iron Man 2, phase: Phase One: Avengers Assembled, category_name: Action, release_year: 2015, running_time: 124, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 7, 2010, budget: 200,000,000, gross: 312,057,433, time_stamp: 2015-05-03)
- Movie (movie_id: 7, title: Iron Man 3, phase: Phase Two, category_name: Action, release_year: 2015, running_time: 130, rating_name: PG-13, disc_format_name: Blu-ray + DVD, number_discs: 2, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 3, 2013, budget: 200,000,000, gross: 408,992,272, time_stamp: 2015-05-03)
- Movie (movie_id: 11, title: Avengers: Age of Ultron, phase: Phase Two, category_name: Science Fiction, release_year: 2015, running_time: 141, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 1, 2015, budget: 250,000,000, gross: 458,991,599, time_stamp: 2015-12-07)
- Movie (movie_id: 12, title: Ant-Man, phase: Phase Two, category_name: Science Fiction, release_year: 2015, running_time: 132, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 1.85:1, status: 1, release_date: July 17, 2015, budget: 130,000,000, gross: 179,017,481, time_stamp: 2015-12-07)
- Movie (movie_id: 9, title: Captain America: The Winter Soldier, phase: Phase Two, category_name: Action, release_year: 2014, running_time: 136, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: April 4, 2014, budget: 170,000,000, gross: 259,746,958, time_stamp: 2014-09-19)
- Movie (movie_id: 10, title: Guardians of the Galaxy, phase: Phase Two, category_name: Science Fiction, release_year: 2014, running_time: 121,


movie_id 1
title Iron Man
phase 1
category_name action
release_year 2013
running_time 126
rating_name 1
disc_format_name DVD
number_discs 2
viewing_format_name Widescreen
aspect_ratio_name 16:9
status 1
release_date 2015
budget 1,000,000
gross 11,000,000
time_stamp 2015-05-03
SUBMIT
Movie (movie_id: 1, title: Iron Man, phase: Phase One: Avengers Assembled, category_name: Action, release_year: 2015, running_time: 126, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 2, 2008, budget: 140,000,000, gross: 318,298,180, time_stamp: 2015-05-03)
Movie (movie_id: 3, title: Iron Man 2, phase: Phase One: Avengers Assembled, category_name: Action, release_year: 2015, running_time: 124, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 7, 2010, budget: 200,000,000, gross: 312,057,433, time_stamp: 2015-05-03)
Movie (movie_id: 7, title: Iron Man 3, phase: Phase Two, category_name: Action, release_year: 2015, running_time: 130, rating_name: PG-13, disc_format_name: Blu-ray + DVD, number_discs: 2, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 3, 2013, budget: 200,000,000, gross: 408,992,272, time_stamp: 2015-05-03)
Movie (movie_id: 11, title: Avengers: Age of Ultron, phase: Phase Two, category_name: Science Fiction, release_year: 2015, running_time: 141, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 1, 2015, budget: 250,000,000, gross: 458,991,599, time_stamp: 2015-12-07)
Movie (movie_id: 12, title: Ant-Man, phase: Phase Two, category_name: Science Fiction, release_year: 2015, running_time: 132, rating_name: PG-
Elements Console Sources Network Timeline Profiles Application Security Audits Augury Adblock Plus AdBlock
top
Preserve log
Form Values 1 Iron Man 1 action 2013 126 1 DVD 2 Widescreen 16:9 1 2015 1,000,000 11,000,000 2015-05-03
app.component.ts:40
Console


app works!
movie_id 2
title The Incredible Hulk
phase Phase One: Avengers Assen
category_name Action
release_year 2008
running_time 112
rating_name PG-13
disc_format_name DVD
number_discs 3
viewing_format_name Widescreen
aspect_ratio_name 2.35.1
status 1
release_date 13,2008
budget 1500000
gross 13400000
time_stamp 2008-10-21
SUBMIT
Movie (movie_id: 1, title: Iron Man, phase: Phase One: Avengers Assembled, category_name: Action, release_year: 2015, running_time: 126, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 2, 2008, budget: 140,000,000, gross: 318,298,180, time_stamp: 2015-05-03)
Movie (movie_id: 3, title: Iron Man 2, phase: Phase One: Avengers Assembled, category_name: Action, release_year: 2015, running_time: 124, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 7, 2010, budget: 200,000,000, gross: 312,057,433, time_stamp: 2015-05-03)
Elements Console Sources Network Timeline Profiles Application Security Audits Augury Adblock Plus AdBlock
top
Preserve log
Form Values 2 The Incredible Hulk Phase One: Avengers Assembled Action 2008 112 PG-13 DVD 3 Widescreen 2.35.1 1 13,2008 1500000 13400000 2008-10-21
app.component.ts:40
app.component.ts:79
Movie {_movie_id: "2", _title: "The Incredible Hulk", _phase: "Phase One: Avengers Assembled", _category_name: "Action", _release_year: "2008"…}


app works!
Error
movie_id
title
phase
category_name
release_year
running_time
rating_name
disc_format_name
number_discs
viewing_format_name
aspect_ratio_name
status
release_date
budget
gross
time_stamp
SUBMIT

app works!

Error

movie_id 1
title

This field is required

phase

This field is required

category_name

This field is required

release_year

This field is required

running_time

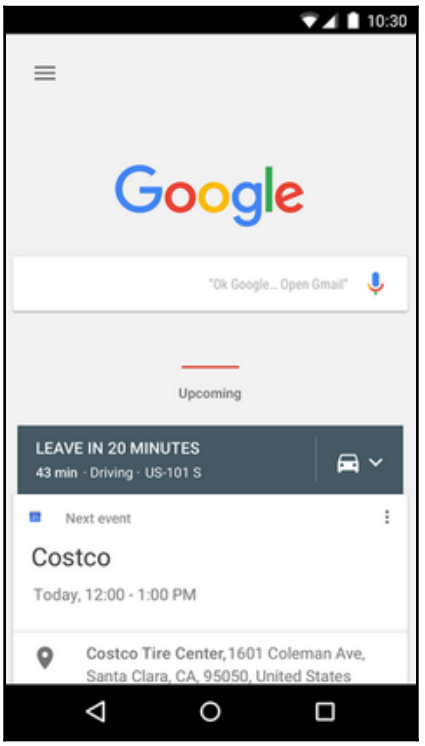
This field is required

rating_name

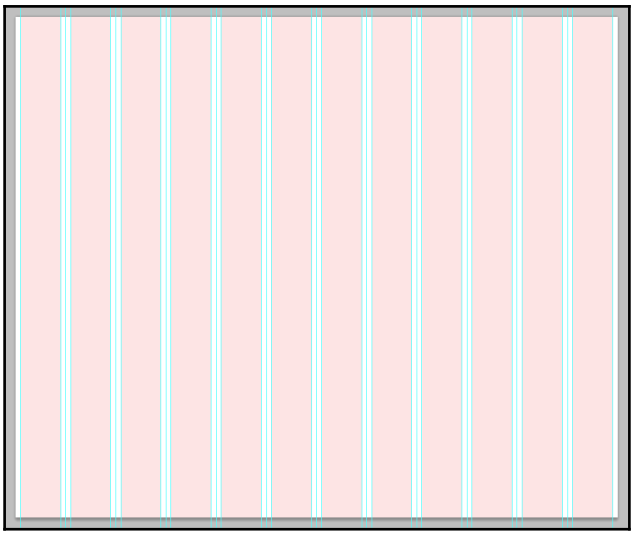
This field is required

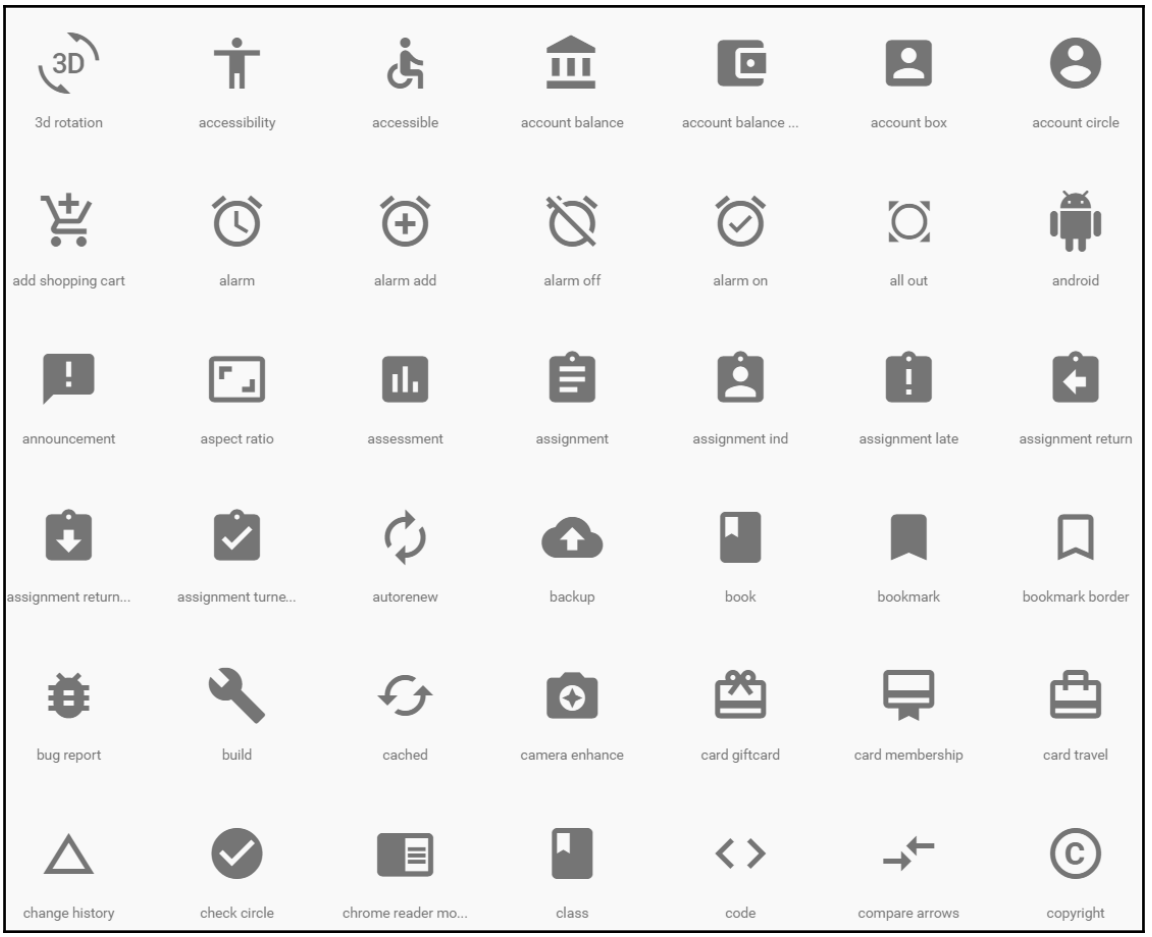
app works!
Error
movie_id 1
title
This field is required
phase
This field is required
category_name
This field is required
release_year
This field is required
running_time
This field is required
rating_name
This field is required

Chapter 10: Material Design in Angular

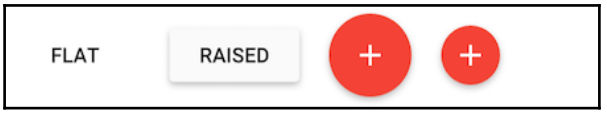


app works!

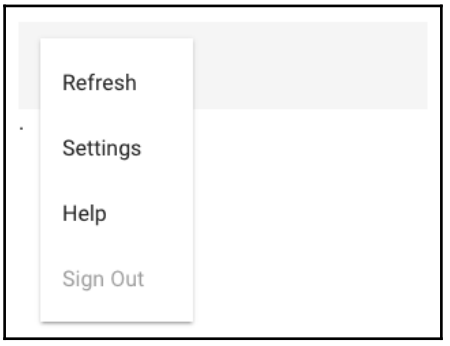



3d rotation
accessibility
accessible
account balance
account balance ...
account box
account circle
add shopping cart
alarm
alarm add
alarm off
alarm on
all out
android
announcement
aspect ratio
assessment
assignment
assignment ind
assignment late
assignment return
assignment return...
assignment turne...
autorenew
backup
book
bookmark
bookmark border
bug report
build
cached
camera enhance
card giftcard
card membership
card travel
change history
check circle
chrome reader mo...
class
code
compare arrows
copyright

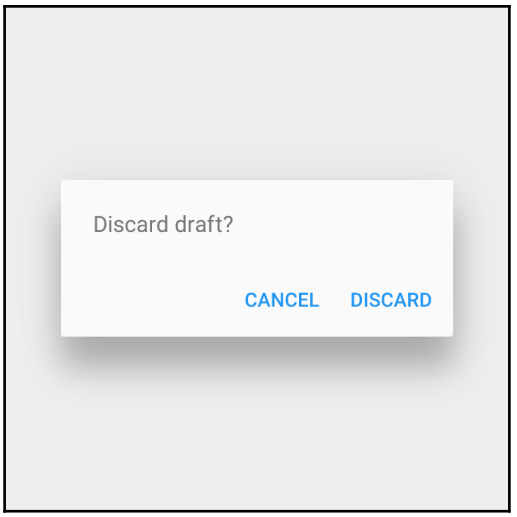
app works!


FLAT
RAISED

PRIMARY
ACCENT
WARN

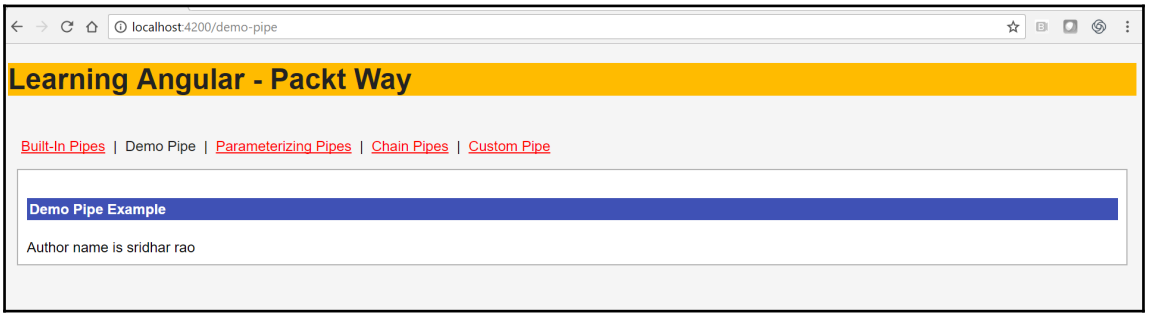

Refresh
Settings
Help
Sign Out

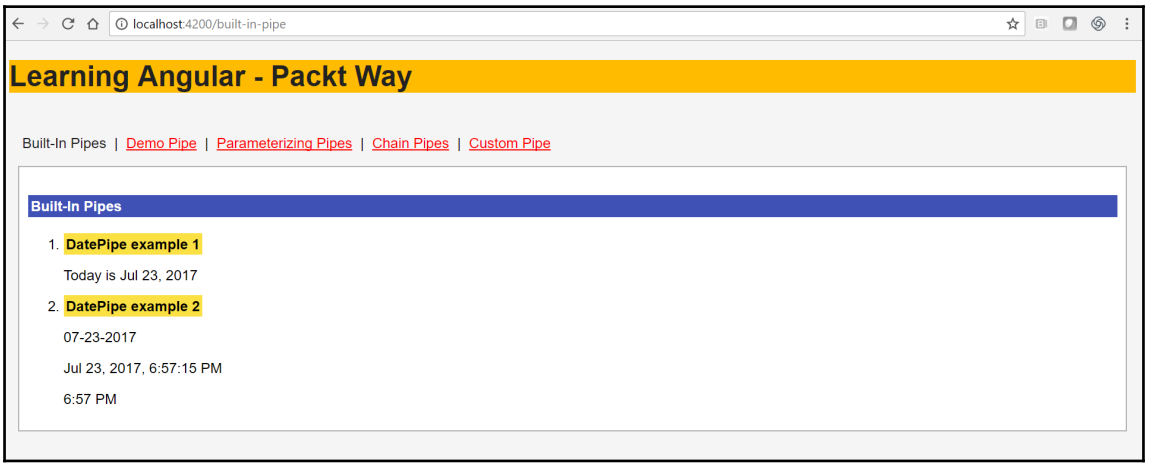
One good looking toolbar

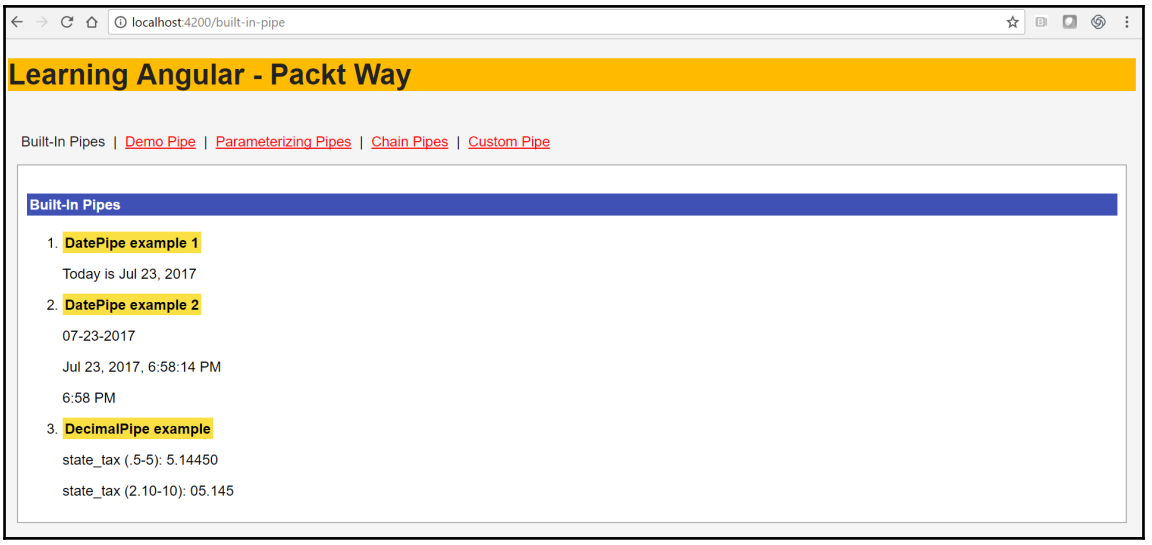

Discard draft?
CANCEL
DISCARD

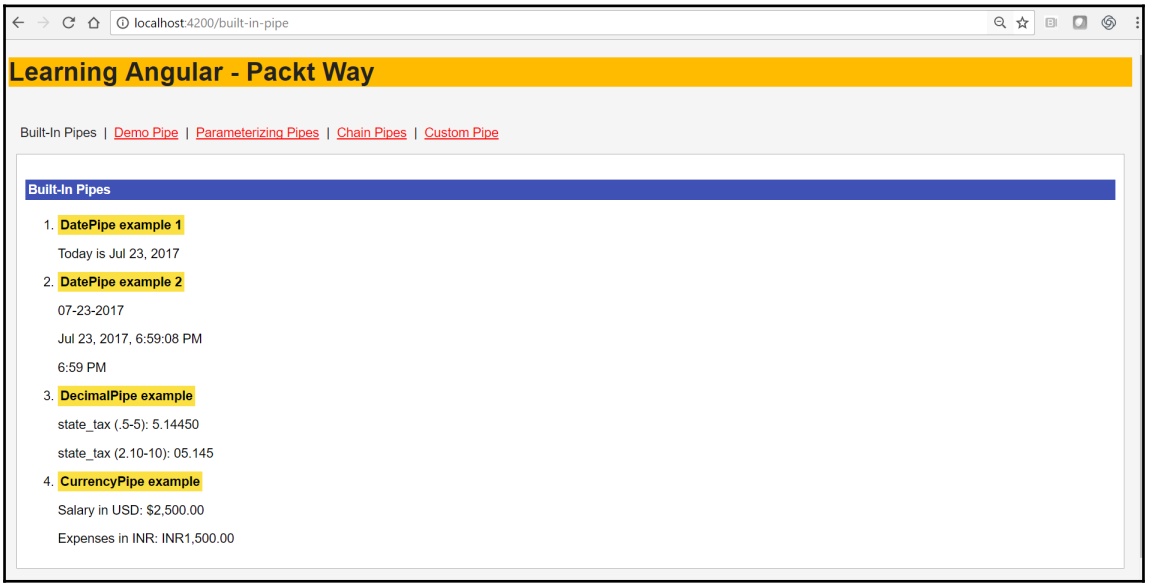
Side Navigation
Close
lar content. This will be moved into the proper

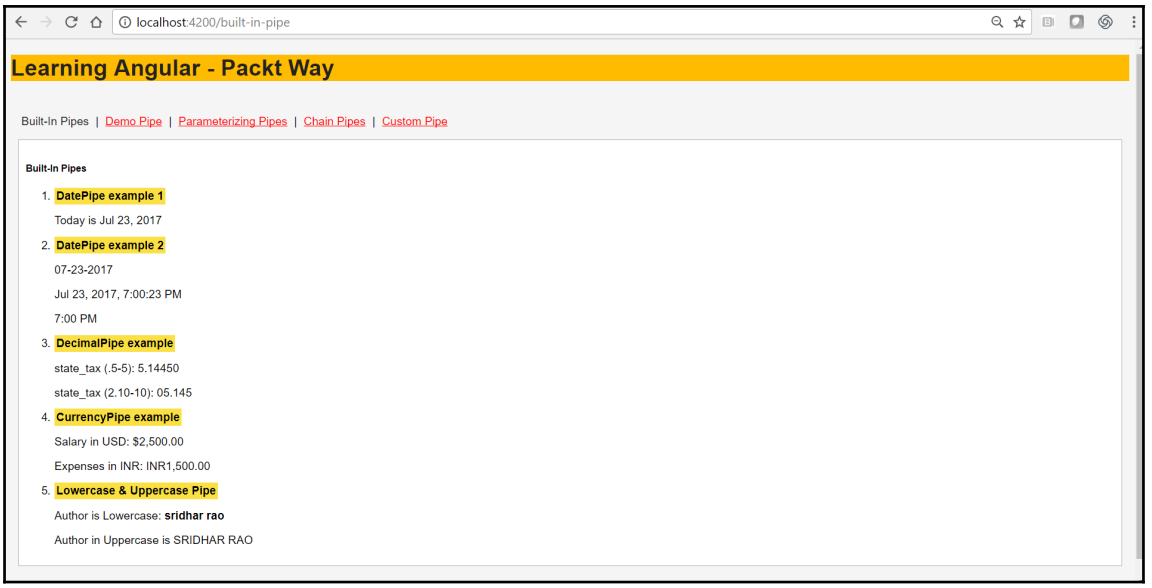
Chapter 11: Implementing Angular Pipes

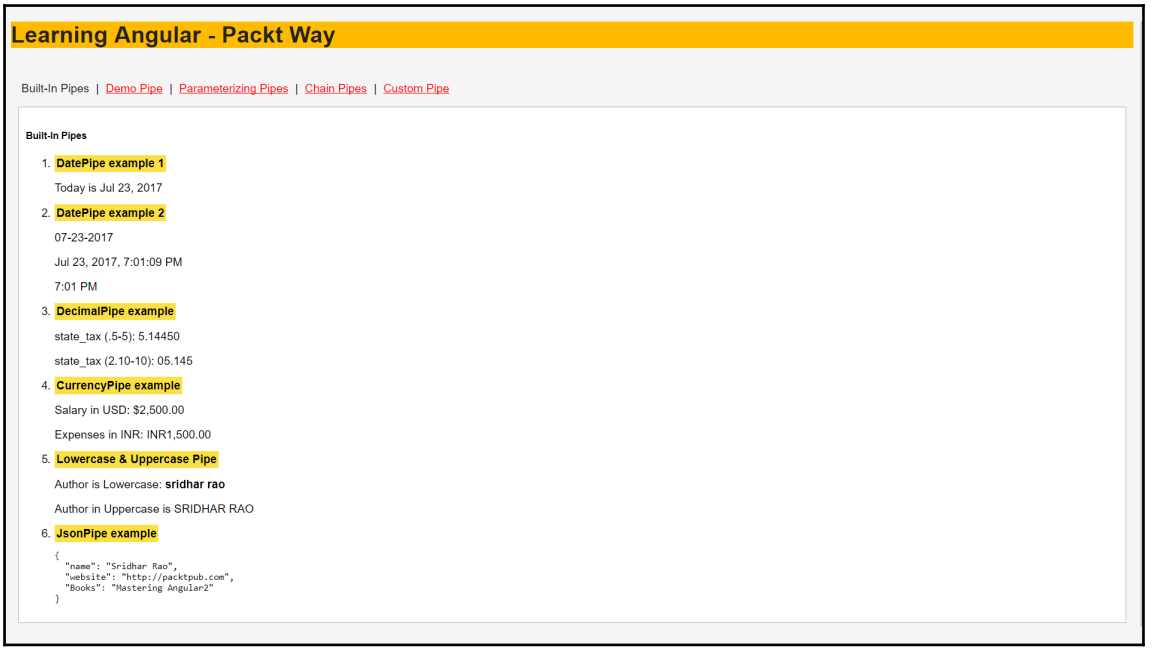


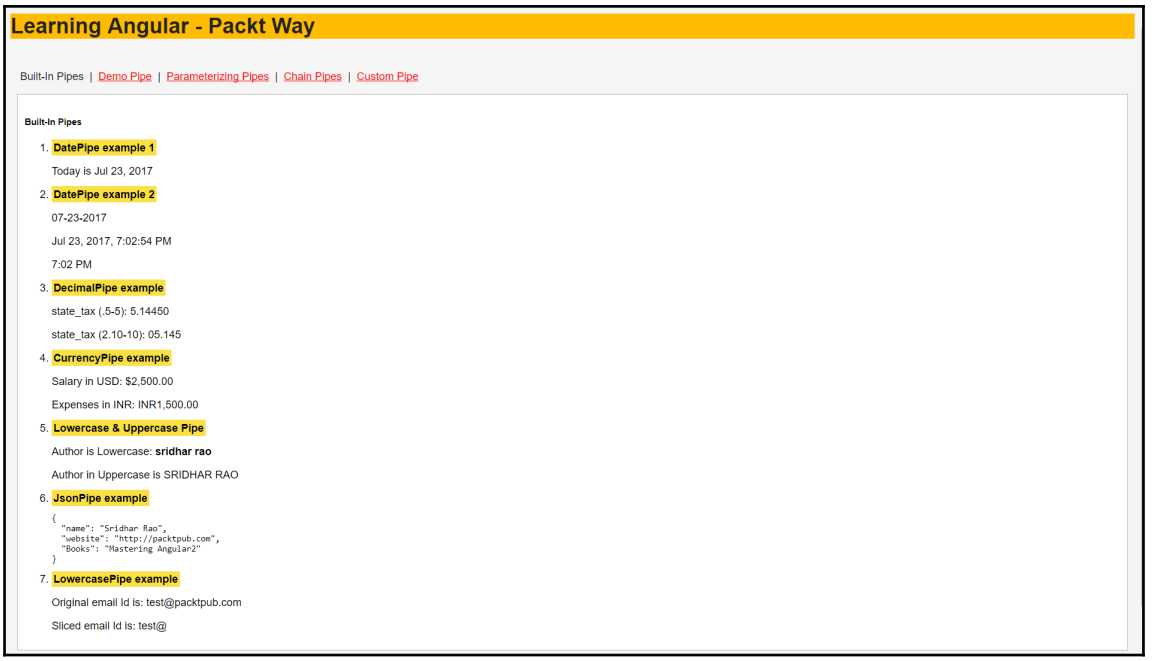


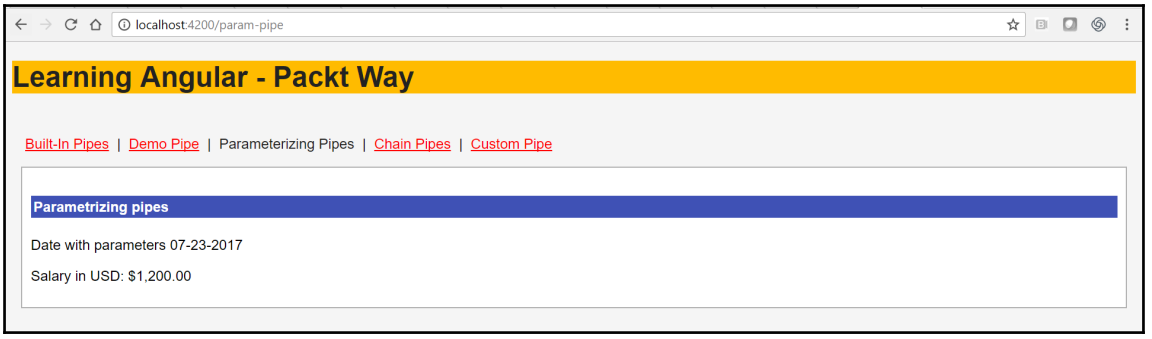

localhost:4200/built-in-pipe
Learning Angular - Packt Way
Built-In Pipes | Demo Pipe | Parameterizing Pipes | Chain Pipes | Custom Pipe
Built-In Pipes
1. DatePipe example 1
Today is Jul 23, 2017
2. DatePipe example 2
07-23-2017
Jul 23, 2017, 6:58:14 PM
6:58 PM
3. DecimalPipe example
state_tax (.5-5): 5.14450
state_tax (2.10-10): 05.145

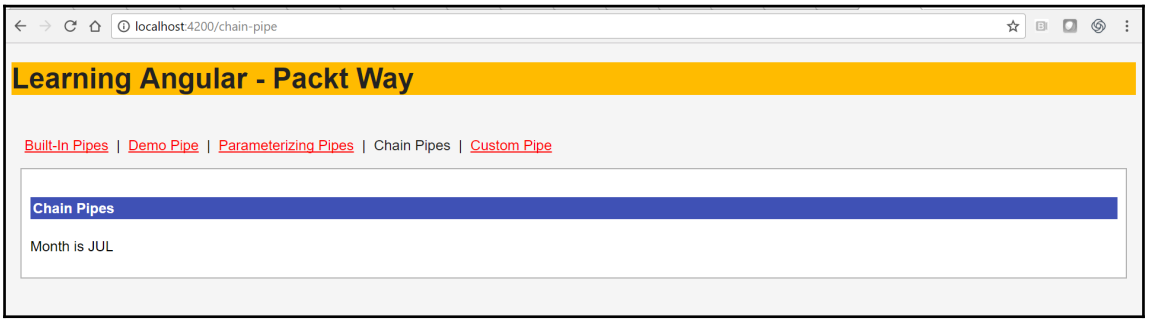

localhost:4200/built-in-pipe
Learning Angular - Packt Way
Built-In Pipes | Demo Pipe | Parameterizing Pipes | Chain Pipes | Custom Pipe
Built-In Pipes
1. DatePipe example 1
Today is Jul 23, 2017
2. DatePipe example 2
07-23-2017
Jul 23, 2017, 6:59:08 PM
6:59 PM
3. DecimalPipe example
state_tax (.5-5): 5.14450
state_tax (2.10-10): 05.145
4. CurrencyPipe example
Salary in USD: $2,500.00
Expenses in INR: INR1,500.00

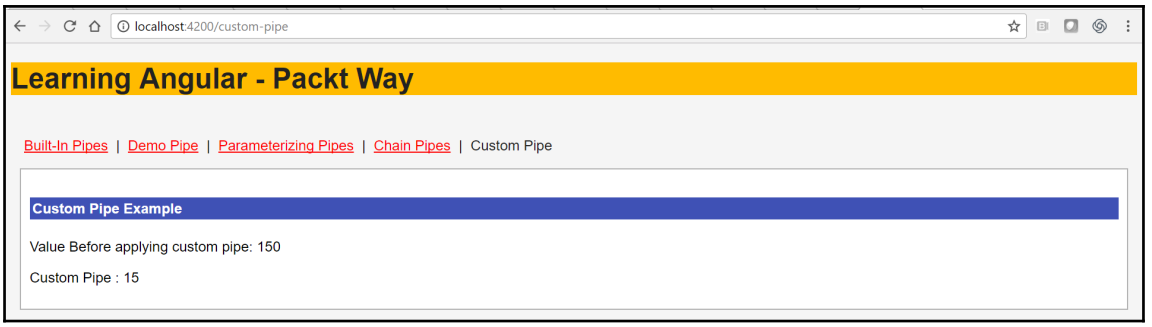

localhost:4200/built-in-pipe
Learning Angular - Packt Way
Built-In Pipes | Demo Pipe | Parameterizing Pipes | Chain Pipes | Custom Pipe
Built-In Pipes
1. DatePipe example 1
Today is Jul 23, 2017
2. DatePipe example 2
07-23-2017
Jul 23, 2017, 7:00:23 PM
7:00 PM
3. DecimalPipe example
state_tax (.5-5): 5.14450
state_tax (2.10-10): 05.145
4. CurrencyPipe example
Salary in USD: $2,500.00
Expenses in INR: INR1,500.00
5. Lowercase & Uppercase Pipe
Author is Lowercase: sridhar rao
Author in Uppercase is SRIDHAR RAO


Learning Angular - Packt Way
Built-In Pipes | Demo Pipe | Parameterizing Pipes | Chain Pipes | Custom Pipe
Built-In Pipes
1. DatePipe example 1
Today is Jul 23, 2017
2. DatePipe example 2
07-23-2017
Jul 23, 2017, 7:01:09 PM
7:01 PM
3. DecimalPipe example
state_tax (.5-5): 5.14450
state_tax (2.10-10): 05.145
4. CurrencyPipe example
Salary in USD: $2,500.00
Expenses in INR: INR1,500.00
5. Lowercase & Uppercase Pipe
Author is Lowercase: sridhar rao
Author in Uppercase is SRIDHAR RAO
6. JsonPipe example
{
"name": "Sridhar Rao",
"website": "http://packtpub.com",
"Books": "Mastering Angular2"
}

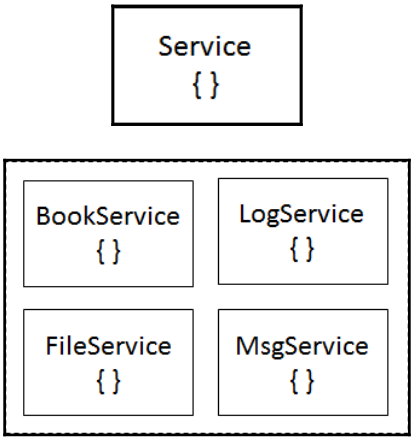

Learning Angular - Packt Way
Built-In Pipes | Demo Pipe | Parameterizing Pipes | Chain Pipes | Custom Pipe
Built-In Pipes
1. DatePipe example 1
Today is Jul 23, 2017
2. DatePipe example 2
07-23-2017
Jul 23, 2017, 7:02:54 PM
7:02 PM
3. DecimalPipe example
state_tax (.5-5): 5.14450
state_tax (2.10-10): 05.145
4. CurrencyPipe example
Salary in USD: $2,500.00
Expenses in INR: INR1,500.00
5. Lowercase & Uppercase Pipe
Author is Lowercase: sridhar rao
Author in Uppercase is SRIDHAR RAO
6. JsonPipe example
{
"name": "Sridhar Rao",
"website": "http://packtpub.com",
"Books": "Mastering Angular2"
}
7. LowercasePipe example
Original email Id is: test@packtpub.com
Sliced email Id is: test@


localhost:4200/param-pipe
Learning Angular - Packt Way
Built-In Pipes | Demo Pipe | Parameterizing Pipes | Chain Pipes | Custom Pipe
Parametrizing pipes
Date with parameters 07-23-2017
Salary in USD: $1,200.00

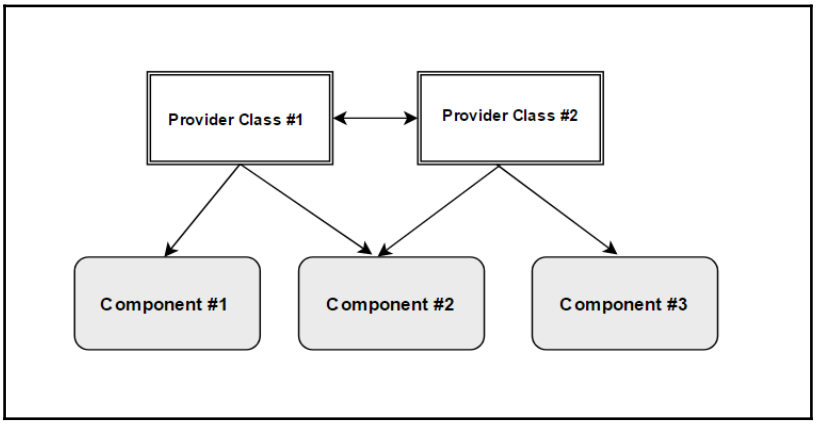

localhost:4200/chain-pipe
Learning Angular - Packt Way
Built-In Pipes | Demo Pipe | Parameterizing Pipes | Chain Pipes | Custom Pipe
Chain Pipes
Month is JUL

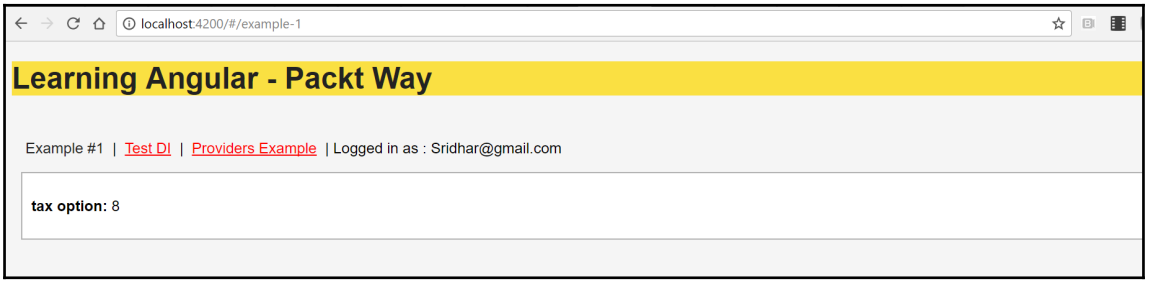

localhost:4200/custom-pipe
Learning Angular - Packt Way
Built-In Pipes | Demo Pipe | Parameterizing Pipes | Chain Pipes | Custom Pipe
Custom Pipe Example
Value Before applying custom pipe: 150
Custom Pipe : 15

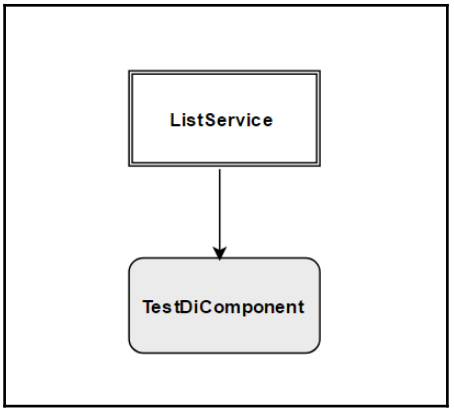
Chapter 12: Implementing Angular Services

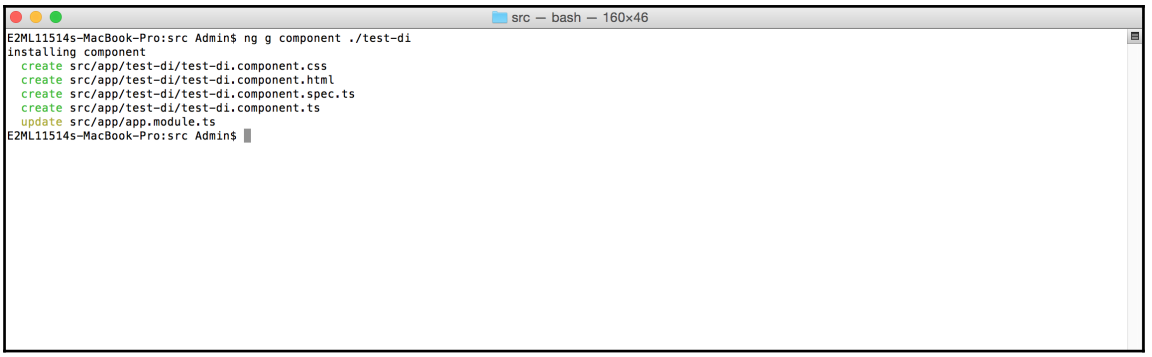


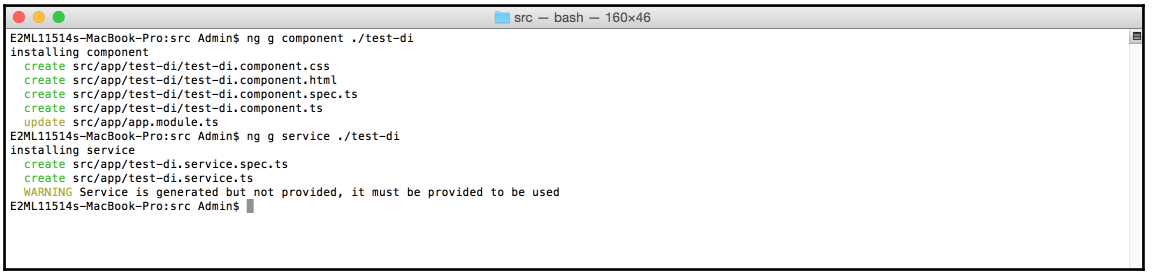
Chapter 13: Applying Dependency Injection

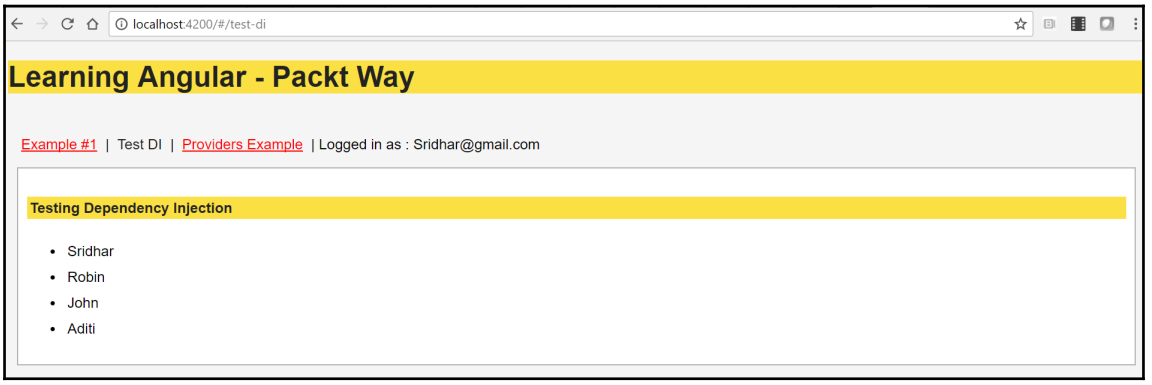


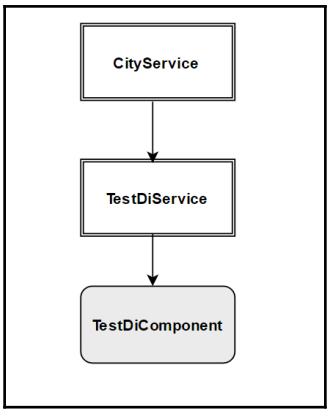


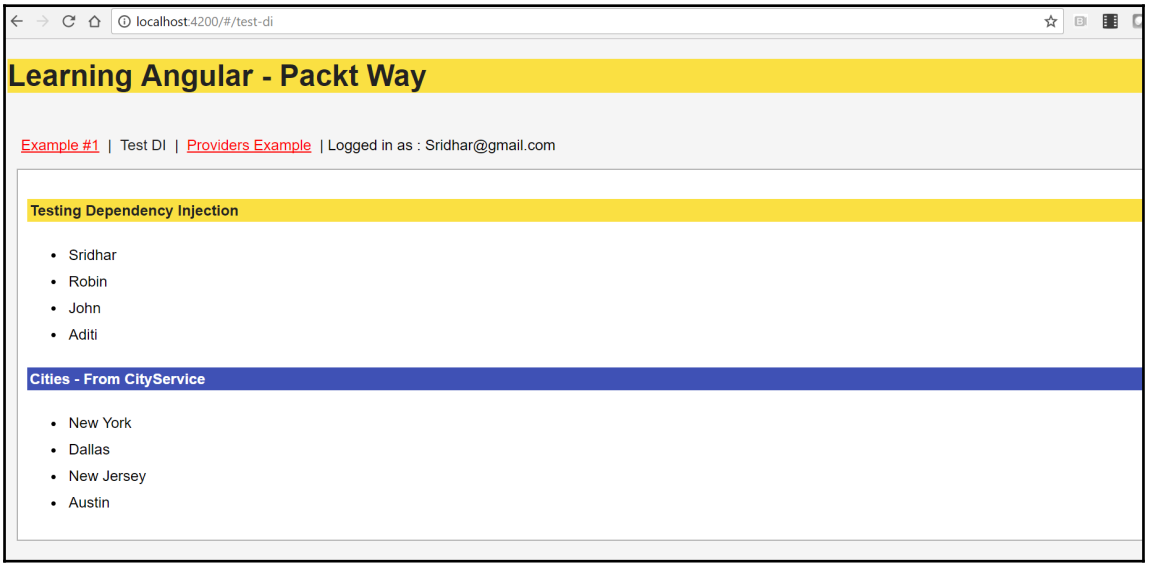


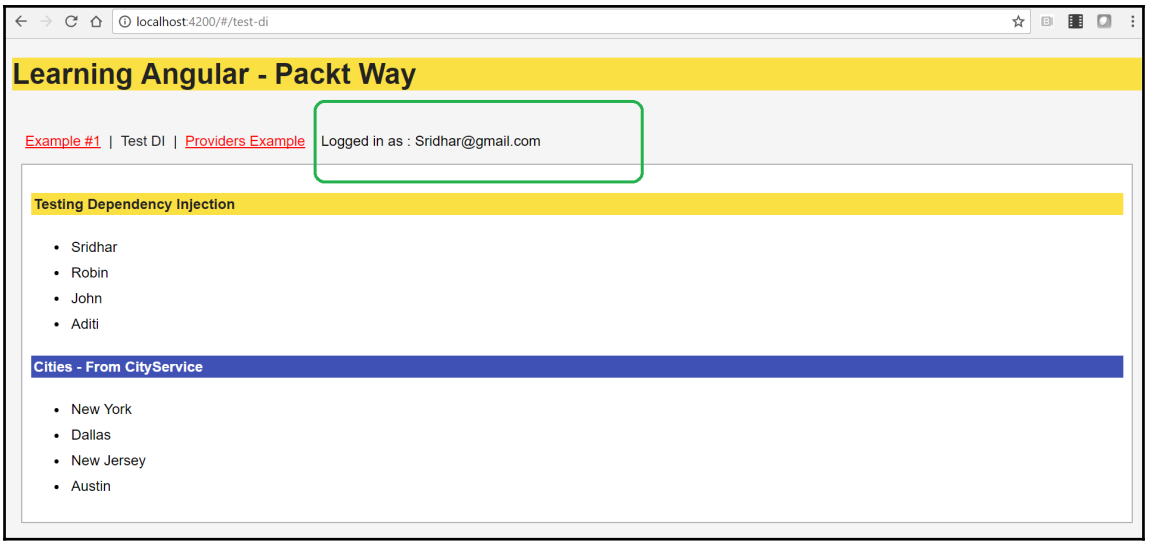

src — bash — 160×46
E2ML11514s-MacBook-Pro:src Admin$ ng g component ./test-di
installing component
create src/app/test-di/test-di.component.css
create src/app/test-di/test-di.component.html
create src/app/test-di/test-di.component.spec.ts
create src/app/test-di/test-di.component.ts
update src/app/app.module.ts
E2ML11514s-MacBook-Pro:src Admin$


src — bash — 160×46
E2ML11514s-MacBook-Pro:src Admin$ ng g component ./test-di
installing component
create src/app/test-di/test-di.component.css
create src/app/test-di/test-di.component.html
create src/app/test-di/test-di.component.spec.ts
create src/app/test-di/test-di.component.ts
update src/app/app.module.ts
E2ML11514s-MacBook-Pro:src Admin$ ng g service ./test-di
installing service
create src/app/test-di.service.spec.ts
create src/app/test-di.service.ts
WARNING Service is generated but not provided, it must be provided to be used
E2ML11514s-MacBook-Pro:src Admin$

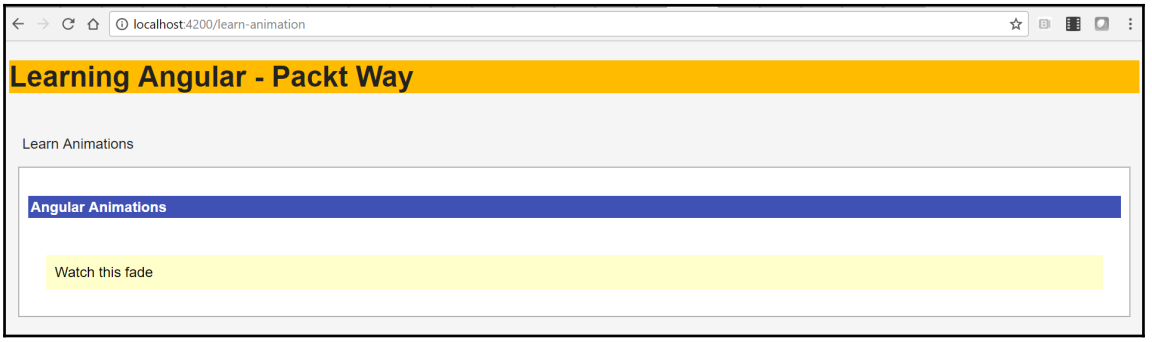

localhost:4200/#/test-di
Learning Angular - Packt Way
Example #1 | Test DI | Providers Example | Logged in as : Sridhar@gmail.com
Testing Dependency Injection
Sridhar
Robin
John
Aditi

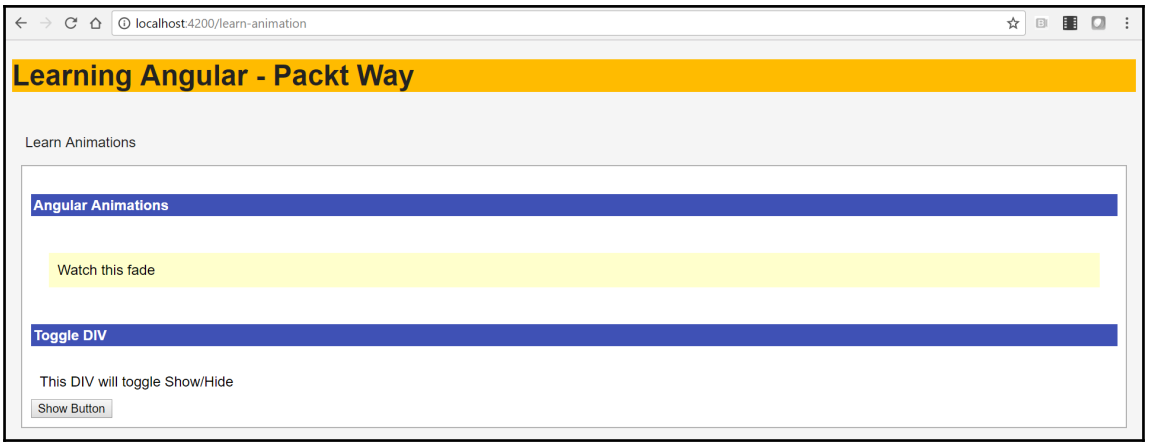

CityService
TestDiService
TestDiComponent

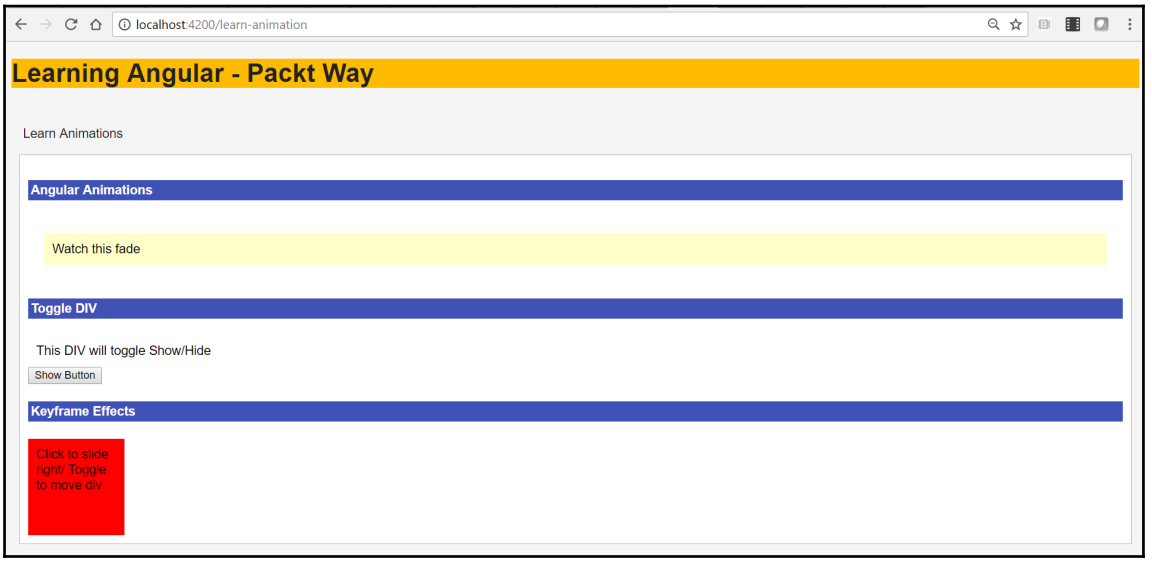

localhost:4200/#/test-di
Learning Angular - Packt Way
Example #1 | Test DI | Providers Example | Logged in as : Sridhar@gmail.com
Testing Dependency Injection
Sridhar
Robin
John
Aditi
Cities - From CityService
New York
Dallas
New Jersey
Austin

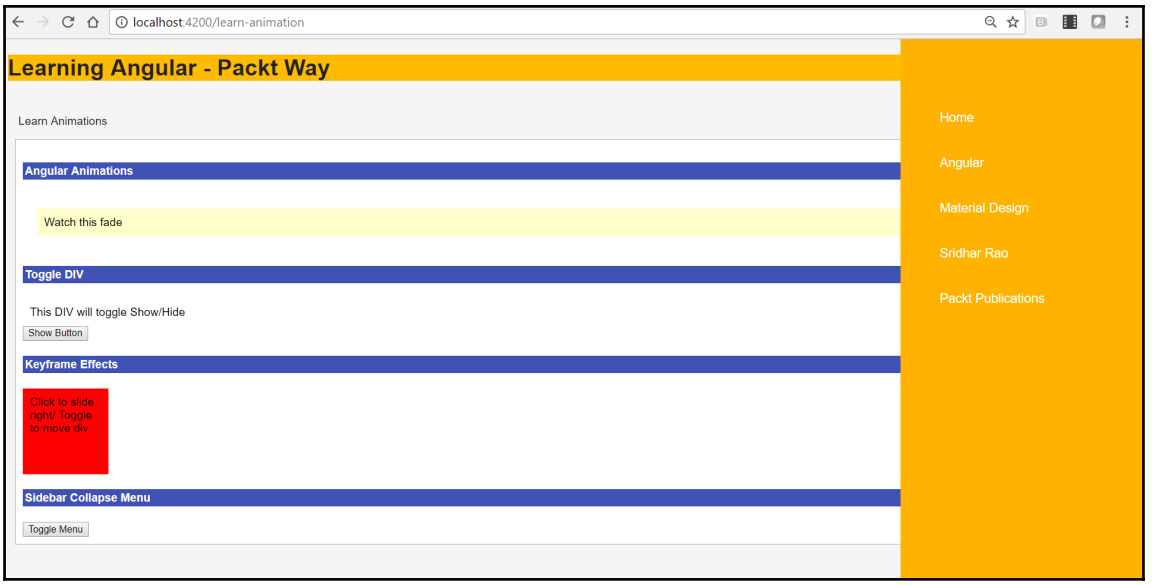

localhost:4200/#/test-di
Learning Angular - Packt Way
Example #1 | Test DI | Providers Example
Logged in as : Sridhar@gmail.com
Testing Dependency Injection
Sridhar
Robin
John
Aditi
Cities - From CityService
New York
Dallas
New Jersey
Austin

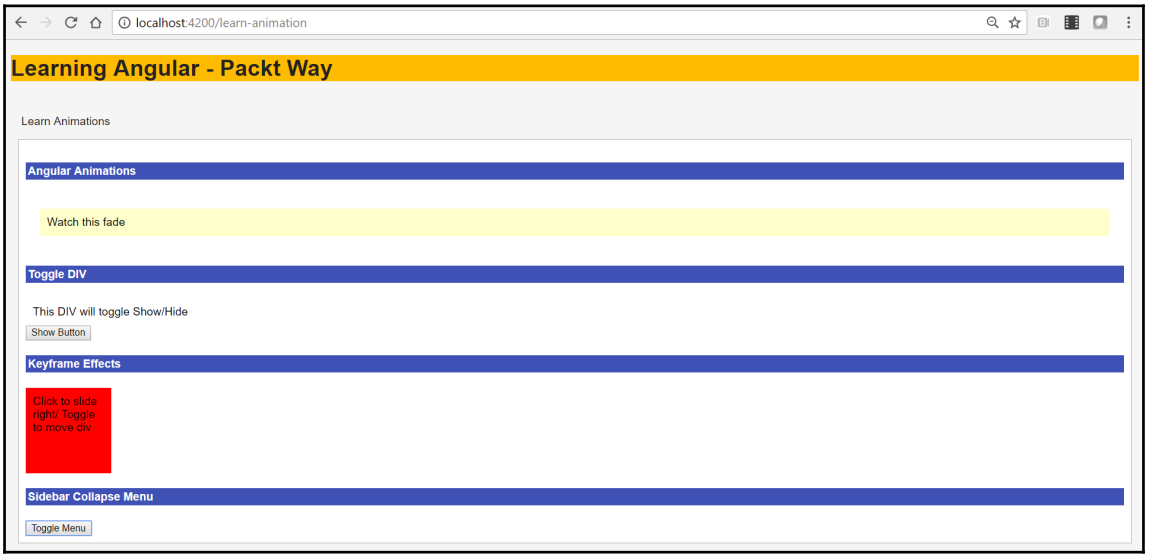
Chapter 14: Handling Angular Animation



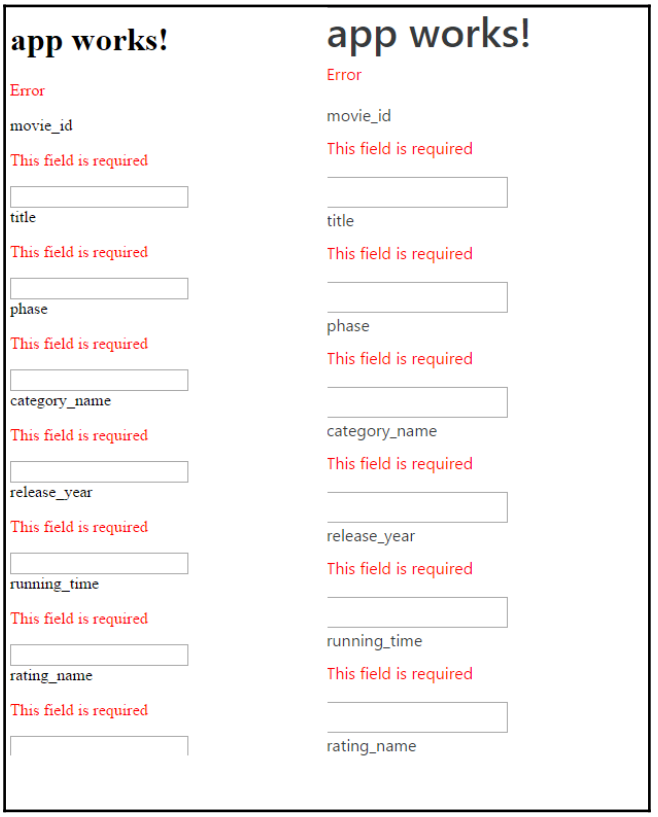

localhost:4200/learn-animation
Learning Angular - Packt Way
Learn Animations
Angular Animations
Watch this fade
Toggle DIV
This DIV will toggle Show/Hide
Show Button

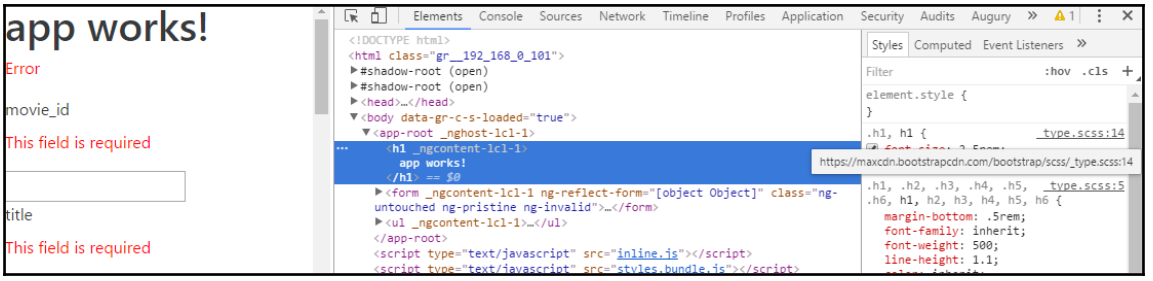

localhost:4200/learn-animation
Learning Angular - Packt Way
Learn Animations
Angular Animations
Watch this fade
Toggle DIV
This DIV will toggle Show/Hide
Show Button
Keyframe Effects
Click to slide right/ Toggle to move div


localhost:4200/learn-animation
Learning Angular - Packt Way
Learn Animations
Angular Animations
Watch this fade
Toggle DIV
This DIV will toggle Show/Hide
Show Button
Keyframe Effects
Click to slide right/ Toggle to move div
Sidebar Collapse Menu
Toggle Menu
Home
Angular
Material Design
Sridhar Rao
Packt Publications


localhost:4200/learn-animation
Learning Angular - Packt Way
Learn Animations
Angular Animations
Watch this fade
Toggle DIV
This DIV will toggle Show/Hide
Show Button
Keyframe Effects
Click to slide right/ Toggle to move div
Sidebar Collapse Menu
Toggle Menu

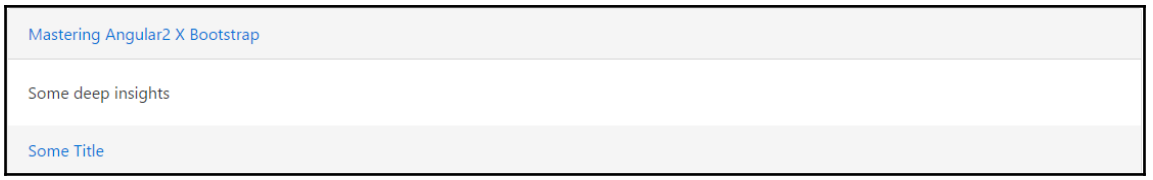
Chapter 15: Integrating Bootstrap with Angular Application

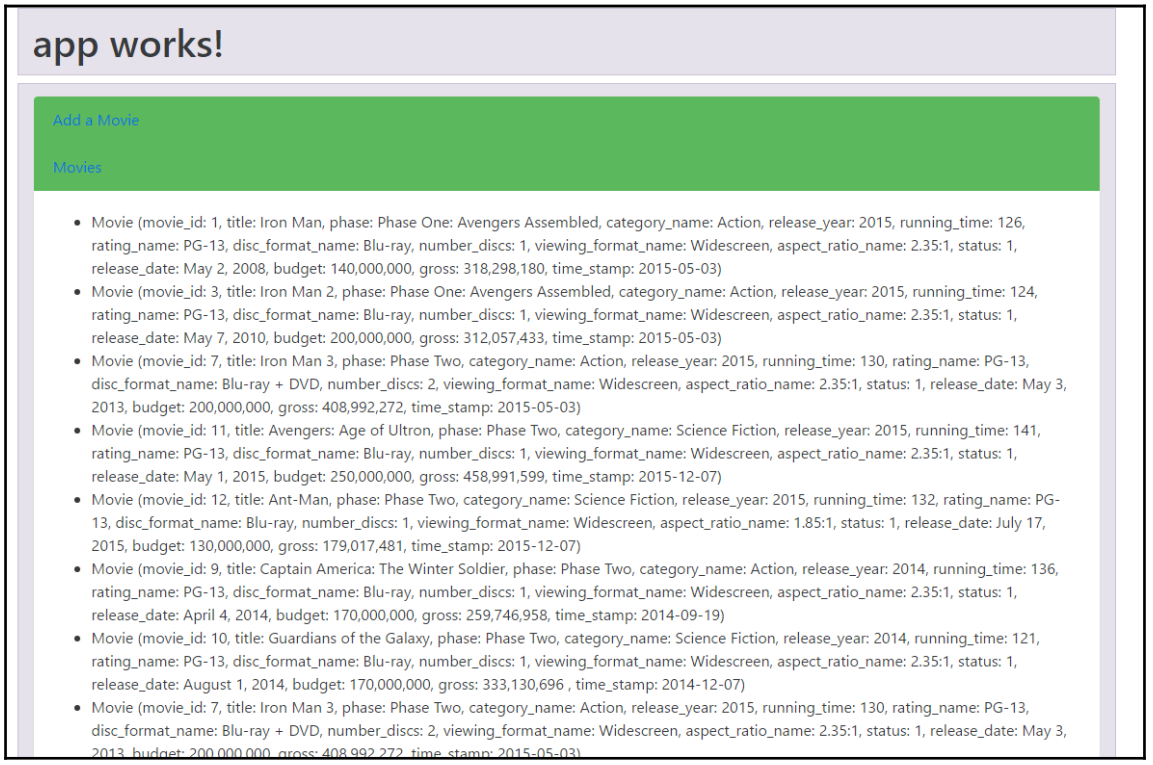


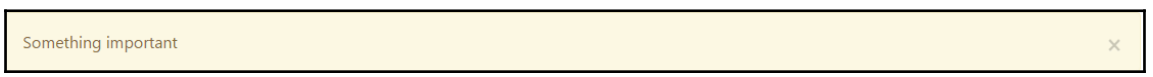


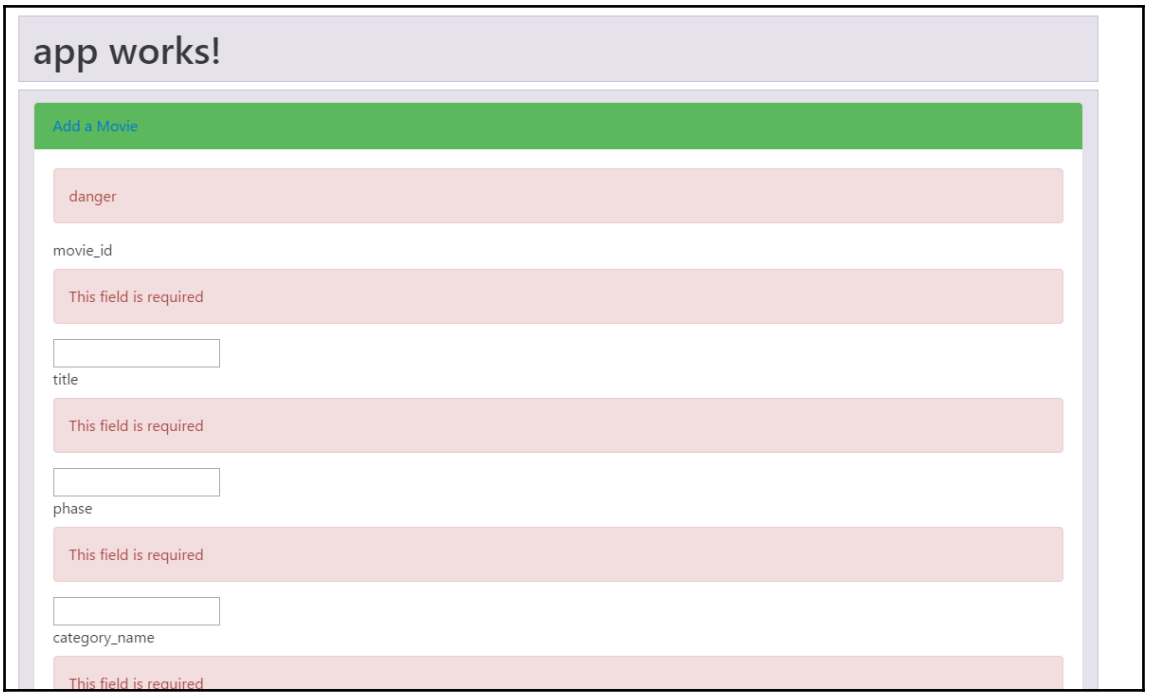
app works!

col-md-1	col-md-1	col-md-1	col-md-1	col-md-1	col-md-1	col-md-1	col-md-1	col-md-1	col-md-1	col-md-1	col-md-1
col-md-8								col-md-4			
col-md-4				col-md-4				col-md-4			
col-md-6						col-md-6					


Mastering Angular2 X Bootstrap
Some deep insights
Some Title

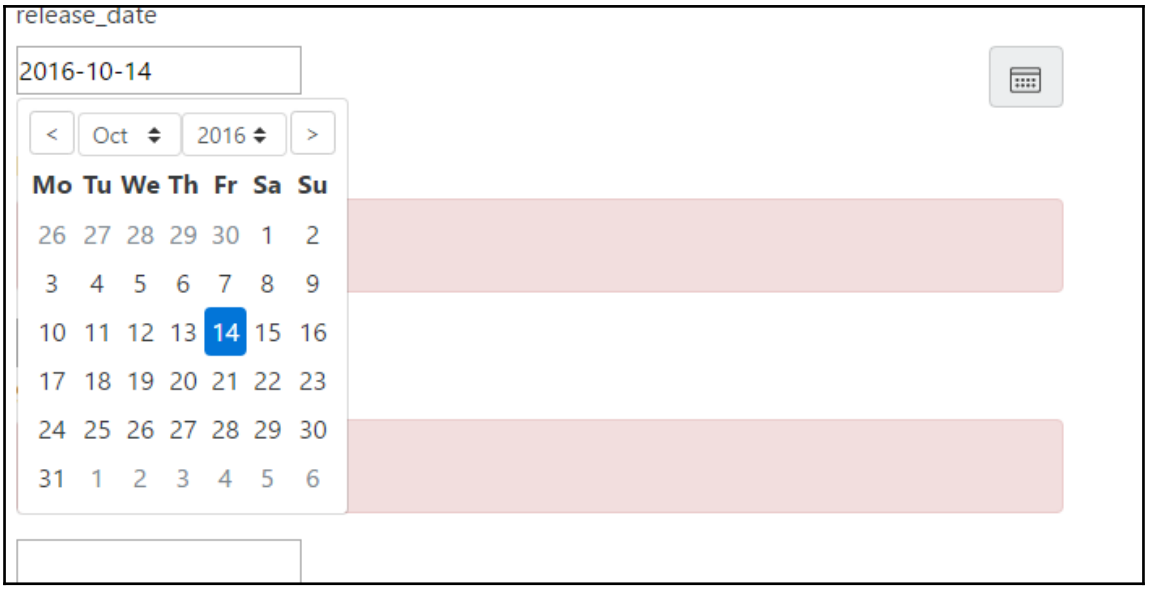

app works!
Add a Movie
Movies
Movie (movie_id: 1, title: Iron Man, phase: Phase One: Avengers Assembled, category_name: Action, release_year: 2015, running_time: 126, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 2, 2008, budget: 140,000,000, gross: 318,298,180, time_stamp: 2015-05-03)
Movie (movie_id: 3, title: Iron Man 2, phase: Phase One: Avengers Assembled, category_name: Action, release_year: 2015, running_time: 124, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 7, 2010, budget: 200,000,000, gross: 312,057,433, time_stamp: 2015-05-03)
Movie (movie_id: 7, title: Iron Man 3, phase: Phase Two, category_name: Action, release_year: 2015, running_time: 130, rating_name: PG-13, disc_format_name: Blu-ray + DVD, number_discs: 2, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 3, 2013, budget: 200,000,000, gross: 408,992,272, time_stamp: 2015-05-03)
Movie (movie_id: 11, title: Avengers: Age of Ultron, phase: Phase Two, category_name: Science Fiction, release_year: 2015, running_time: 141, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 1, 2015, budget: 250,000,000, gross: 458,991,599, time_stamp: 2015-12-07)
Movie (movie_id: 12, title: Ant-Man, phase: Phase Two, category_name: Science Fiction, release_year: 2015, running_time: 132, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 1.85:1, status: 1, release_date: July 17, 2015, budget: 130,000,000, gross: 179,017,481, time_stamp: 2015-12-07)
Movie (movie_id: 9, title: Captain America: The Winter Soldier, phase: Phase Two, category_name: Action, release_year: 2014, running_time: 136, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: April 4, 2014, budget: 170,000,000, gross: 259,746,958, time_stamp: 2014-09-19)
Movie (movie_id: 10, title: Guardians of the Galaxy, phase: Phase Two, category_name: Science Fiction, release_year: 2014, running_time: 121, rating_name: PG-13, disc_format_name: Blu-ray, number_discs: 1, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: August 1, 2014, budget: 170,000,000, gross: 333,130,696 , time_stamp: 2014-12-07)
Movie (movie_id: 7, title: Iron Man 3, phase: Phase Two, category_name: Action, release_year: 2015, running_time: 130, rating_name: PG-13, disc_format_name: Blu-ray + DVD, number_discs: 2, viewing_format_name: Widescreen, aspect_ratio_name: 2.35:1, status: 1, release_date: May 3, 2013, budget: 200,000,000, gross: 408,992,272, time_stamp: 2015-05-03)

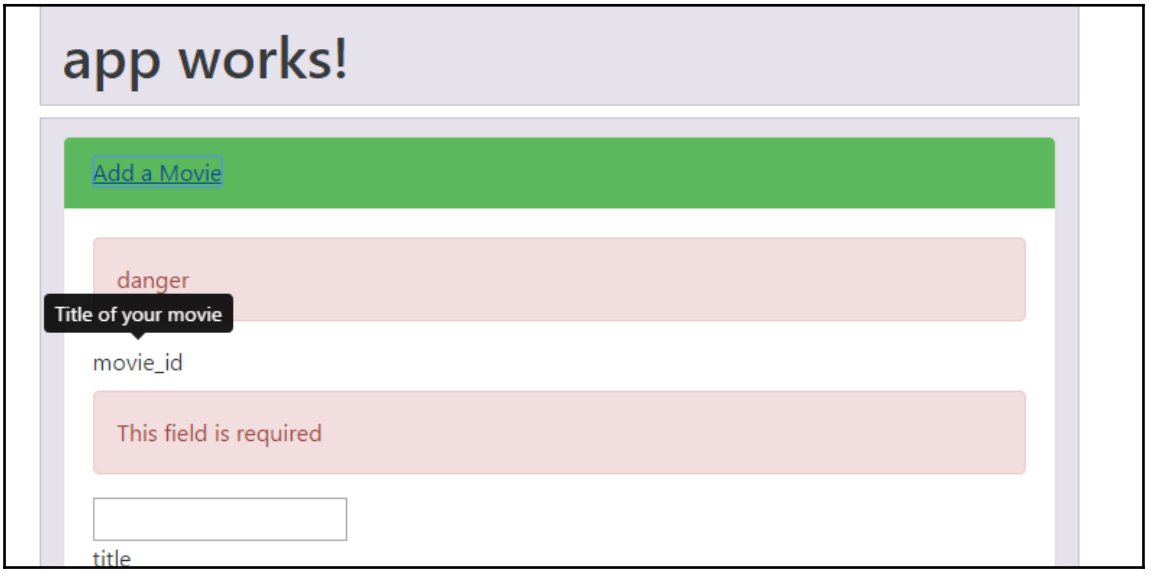

Something important
×

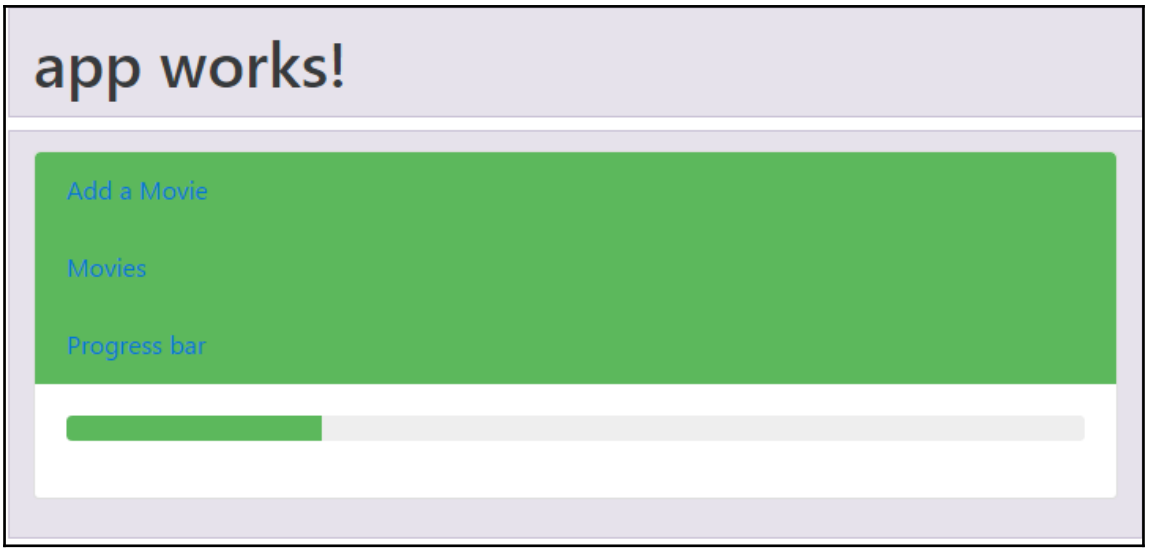

app works!
Add a Movie
danger
movie_id
This field is required
title
This field is required
phase
This field is required
category_name
This field is required

yyyy-mm-dd

2016-11-11
< Nov 2016 >
Mo Tu We Th Fr Sa Su
31 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 1 2 3 4
5 6 7 8 9 10 11

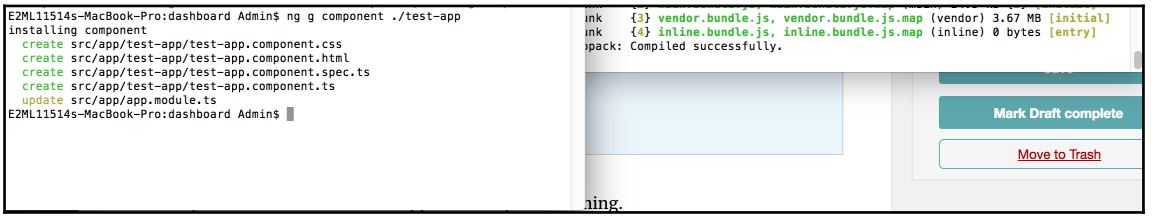

release_date
2016-10-14
Oct
2016
Mo Tu We Th Fr Sa Su
26 27 28 29 30 1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31 1 2 3 4 5 6

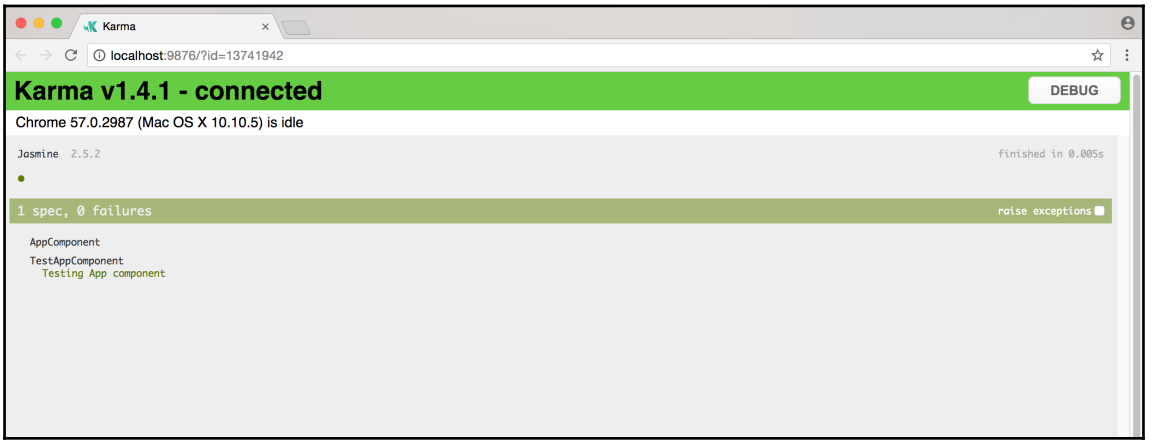

app works!
Add a Movie
danger
Title of your movie
movie_id
This field is required
title

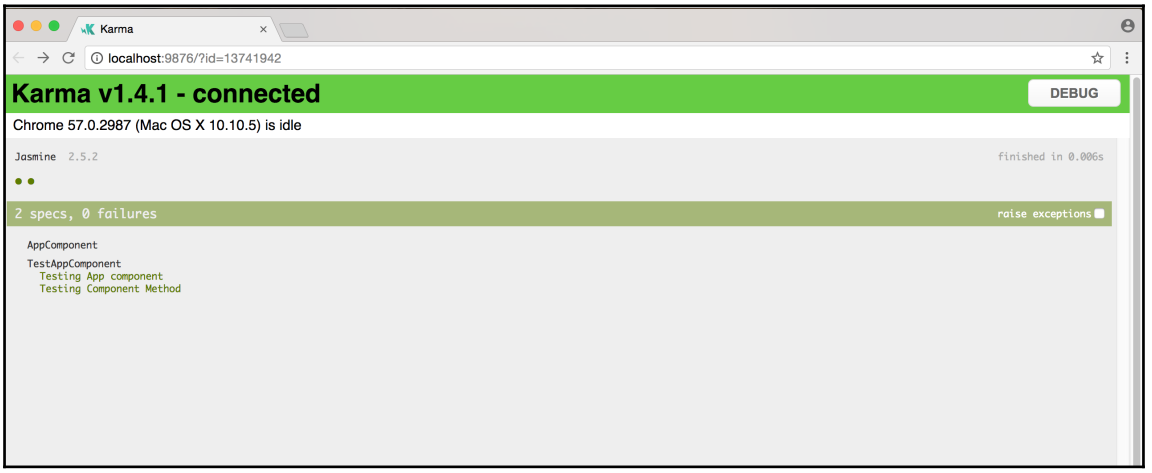

app works!
Add a Movie
Movies
Progress bar

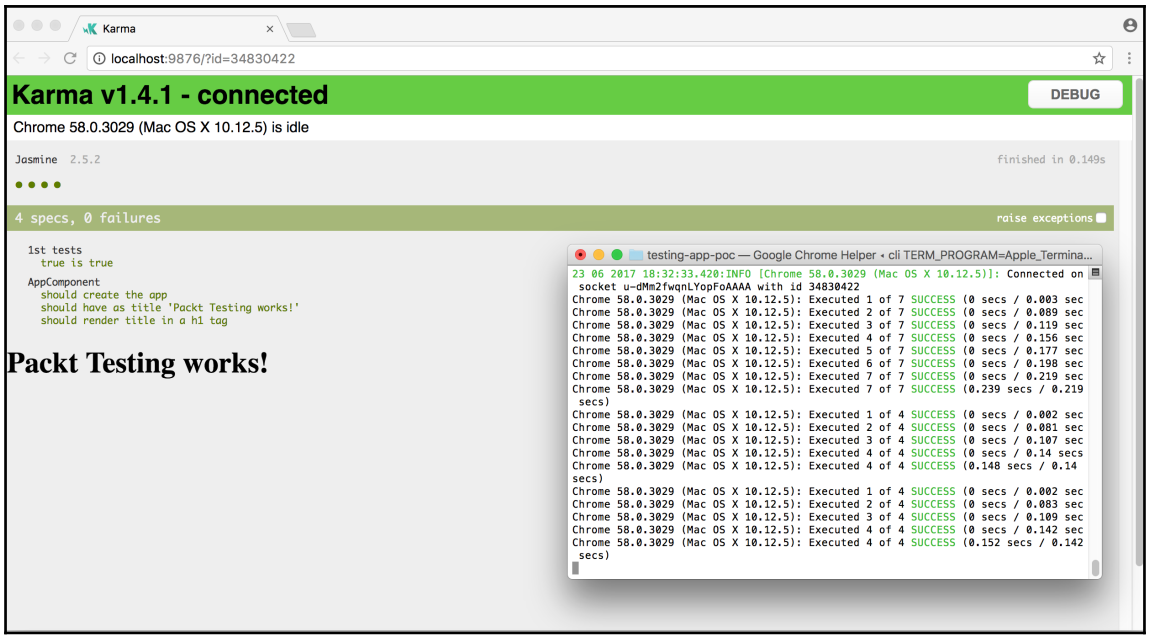
Add a Movie
Movies
Progress bar
Rating bar
★ ★ ★ ★ ★ ☆ ☆ ☆ ☆ ☆

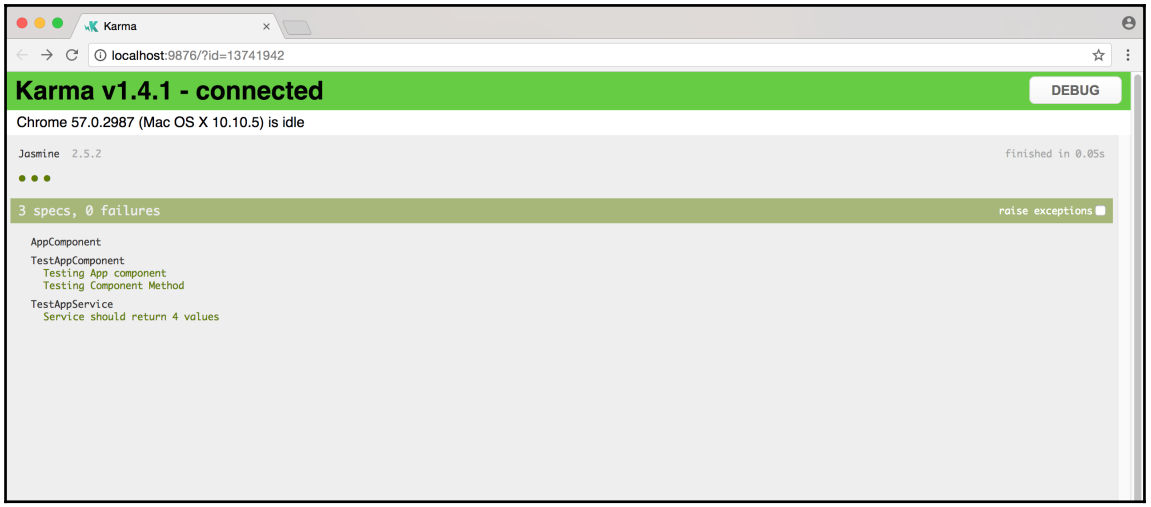
Chapter 16: Testing Angular Apps Using Jasmine and Protractor Frameworks

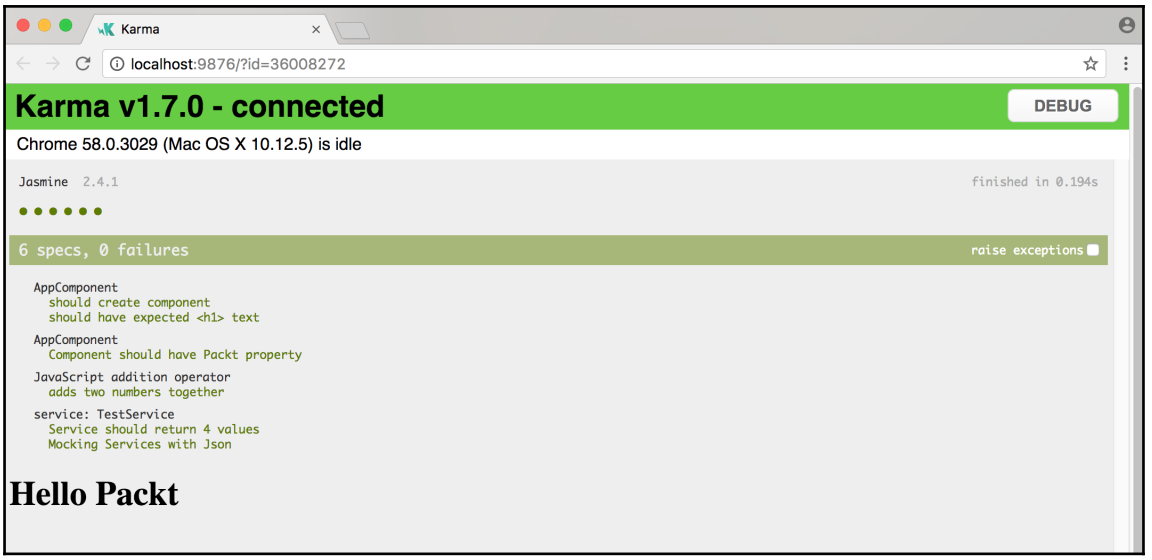


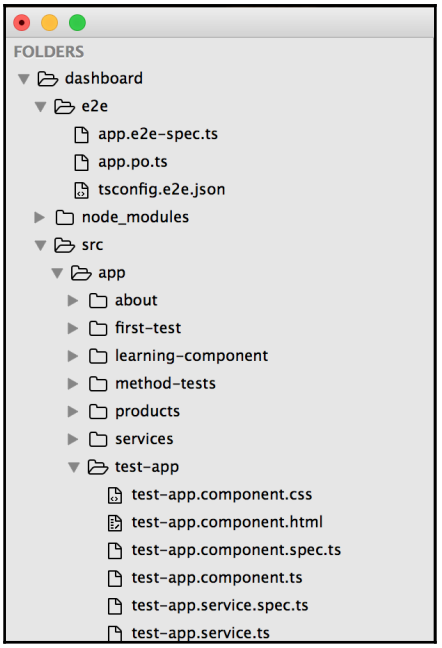





Karma
localhost:9876/?id=34830422
Karma v1.4.1 - connected
DEBUG
Chrome 58.0.3029 (Mac OS X 10.12.5) is idle
Jasmine 2.5.2
finished in 0.149s
4 specs, 0 failures
raise exceptions
1st tests
true is true
AppComponent
should create the app
should have as title 'Packt Testing works!'
should render title in a h1 tag
Packt Testing works!
testing-app-poc — Google Chrome Helper ‹ cli TERM_PROGRAM=Apple_Termina...
23 06 2017 18:32:33.420:INFO [Chrome 58.0.3029 (Mac OS X 10.12.5)]: Connected on socket u-dMm2fwqnLYopFoAAAA with id 34830422
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 1 of 7 SUCCESS (0 secs / 0.003 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 2 of 7 SUCCESS (0 secs / 0.089 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 3 of 7 SUCCESS (0 secs / 0.119 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 4 of 7 SUCCESS (0 secs / 0.156 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 5 of 7 SUCCESS (0 secs / 0.177 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 6 of 7 SUCCESS (0 secs / 0.198 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 7 of 7 SUCCESS (0 secs / 0.219 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 7 of 7 SUCCESS (0.239 secs / 0.219 secs)
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 1 of 4 SUCCESS (0 secs / 0.002 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 2 of 4 SUCCESS (0 secs / 0.081 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 3 of 4 SUCCESS (0 secs / 0.107 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 4 of 4 SUCCESS (0 secs / 0.14 secs
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 4 of 4 SUCCESS (0.148 secs / 0.14 secs)
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 1 of 4 SUCCESS (0 secs / 0.002 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 2 of 4 SUCCESS (0 secs / 0.083 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 3 of 4 SUCCESS (0 secs / 0.109 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 4 of 4 SUCCESS (0 secs / 0.142 sec
Chrome 58.0.3029 (Mac OS X 10.12.5): Executed 4 of 4 SUCCESS (0.152 secs / 0.142 secs)

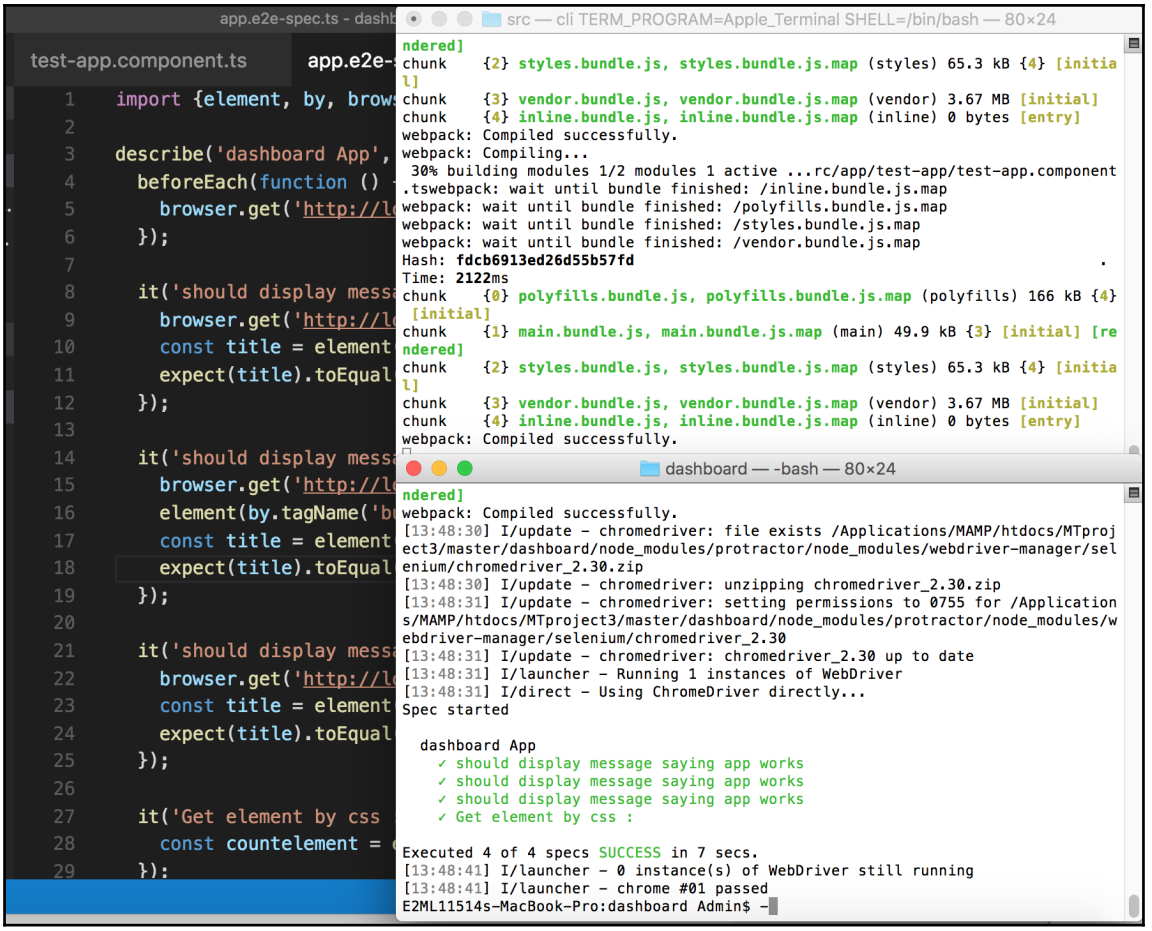

Karma
localhost:9876/?id=13741942
Karma v1.4.1 - connected
DEBUG
Chrome 57.0.2987 (Mac OS X 10.10.5) is idle
Jasmine 2.5.2
finished in 0.05s
3 specs, 0 failures
raise exceptions
AppComponent
TestAppComponent
Testing App component
Testing Component Method
TestAppService
Service should return 4 values


Karma
localhost:9876/?id=36008272
Karma v1.7.0 - connected
DEBUG
Chrome 58.0.3029 (Mac OS X 10.12.5) is idle
Jasmine 2.4.1
finished in 0.194s
6 specs, 0 failures
raise exceptions
AppComponent
should create component
should have expected <h1> text
AppComponent
Component should have Packt property
JavaScript addition operator
adds two numbers together
service: TestService
Service should return 4 values
Mocking Services with Json
Hello Packt

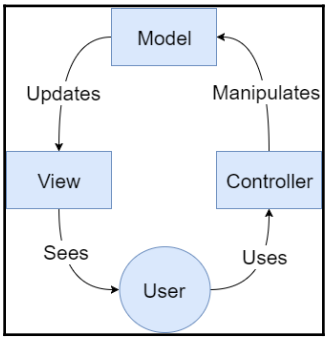

FOLDERS
dashboard
e2e
app.e2e-spec.ts
app.po.ts
tsconfig.e2e.json
node_modules
src
app
about
first-test
learning-component
method-tests
products
services
test-app
test-app.component.css
test-app.component.html
test-app.component.spec.ts
test-app.component.ts
test-app.service.spec.ts
test-app.service.ts

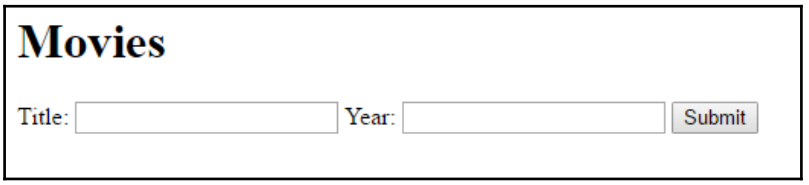
```
E2ML11514s-MacBook-Pro:master Admin$ cd dashboard/
E2ML11514s-MacBook-Pro:dashboard Admin$ ng e2e
** NG Live Development Server is running on http://localhost:49152 **
Hash: c2e15de52b7ec7619119
Time: 17356ms
chunk    {0} polyfills.bundle.js, polyfills.bundle.js.map (polyfills) 166 kB {4} [initial] [rendered]
chunk    {1} main.bundle.js, main.bundle.js.map (main) 24.2 kB {3} [initial] [rendered]
chunk    {2} styles.bundle.js, styles.bundle.js.map (styles) 65.2 kB {4} [initial] [rendered]
chunk    {3} vendor.bundle.js, vendor.bundle.js.map (vendor) 3.67 MB [initial] [rendered]
chunk    {4} inline.bundle.js, inline.bundle.js.map (inline) 0 bytes [entry] [rendered]
webpack: Compiled successfully.
[00:10:54] I/update - chromedriver: file exists /Applications/MAMP/htdocs/MTproject3/master/dashboard/node_modules/protractor/node_modules/webdriver-manager/selenium/chromedriver_
2.29.zip
[00:10:54] I/update - chromedriver: unzipping chromedriver_2.29.zip
[00:10:54] I/update - chromedriver: setting permissions to 0755 for /Applications/MAMP/htdocs/MTproject3/master/dashboard/node_modules/protractor/node_modules/webdriver-manager/se
lenium/chromedriver_2.29
[00:10:54] I/update - chromedriver: chromedriver_2.29 up to date
[00:10:54] I/launcher - Running 1 instances of WebDriver
[00:10:54] I/direct - Using ChromeDriver directly...
Spec started

  dashboard App
    ✓ should display message saying app works

Executed 1 of 1 spec SUCCESS in 2 secs.
[00:10:58] I/launcher - 0 instance(s) of WebDriver still running
[00:10:58] I/launcher - chrome #01 passed
E2ML11514s-MacBook-Pro:dashboard Admin$
```

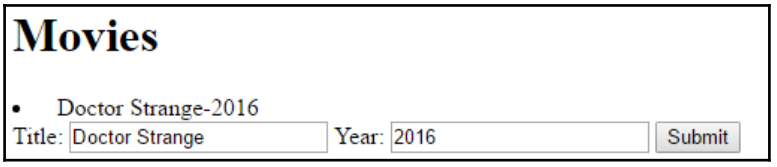
```
$ ng e2e
** NG Live Development Server is listening on localhost:49152, open your browser on http://localhost:49152 **
(node:2736) DeprecationWarning: os.tmpDir() is deprecated. Use os.tmpdir() instead.
Hash: 05fc2362fa5fe12aedf9
Time: 11465ms
chunk    {0} polyfills.bundle.js, polyfills.bundle.js.map (polyfills) 160 kB {4} [initial] [rendered]
chunk    {1} main.bundle.js, main.bundle.js.map (main) 26.8 kB {3} [initial] [rendered]
chunk    {2} styles.bundle.js, styles.bundle.js.map (styles) 10.5 kB {4} [initial] [rendered]
chunk    {3} vendor.bundle.js, vendor.bundle.js.map (vendor) 2.67 MB [initial] [rendered]
chunk    {4} inline.bundle.js, inline.bundle.js.map (inline) 0 bytes [entry] [rendered]
webpack: Compiled successfully.
[18:48:26] I/update - chromedriver: file exists D:\projects\book\data-template-binding\chapter1\node_modules\protractor\node_module
s\webdriver-manager\selenium\chromedriver_2.30.zip
[18:48:26] I/update - chromedriver: unzipping chromedriver_2.30.zip
[18:48:26] I/update - chromedriver: chromedriver_2.30.exe up to date
[18:48:26] I/launcher - Running 1 instances of WebDriver
[18:48:26] I/direct - Using ChromeDriver directly...
Jasmine started

  Form automation Example
    √ Check paragraphs inner text
    √ Should check for getAttribute - class
    √ Should check element for isDisplayed method
    √ Check the applications current URL

Executed 4 of 4 specs SUCCESS in 3 secs.
[18:48:32] I/launcher - 0 instance(s) of WebDriver still running
[18:48:32] I/launcher - chrome #01 passed
```

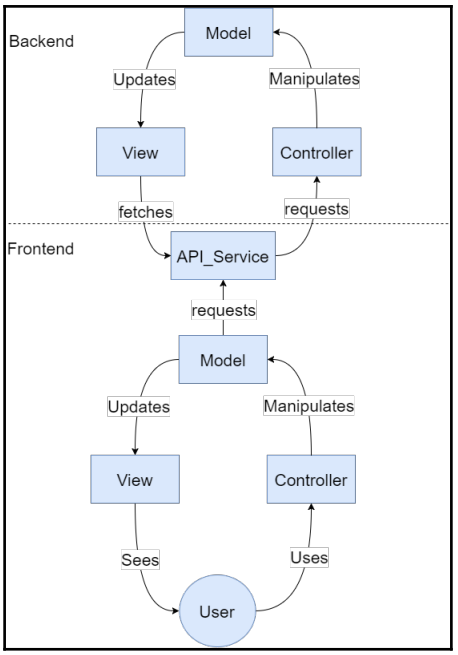

app.e2e-spec.ts - dashb
test-app.component.ts
app.e2e-
1 import {element, by, brows
2
3 describe('dashboard App',
4 beforeEach(function () {
5 browser.get('http://lo
6 });
7
8 it('should display messa
9 browser.get('http://lo
10 const title = element
11 expect(title).toEqual
12 });
13
14 it('should display messa
15 browser.get('http://lo
16 element(by.tagName('bu
17 const title = element
18 expect(title).toEqual
19 });
20
21 it('should display messa
22 browser.get('http://lo
23 const title = element
24 expect(title).toEqual
25 });
26
27 it('Get element by css
28 const countelement =
29 });
src — cli TERM_PROGRAM=Apple_Terminal SHELL=/bin/bash — 80×24
ndered]
chunk {2} styles.bundle.js, styles.bundle.js.map (styles) 65.3 kB {4} [initia
l]
chunk {3} vendor.bundle.js, vendor.bundle.js.map (vendor) 3.67 MB [initial]
chunk {4} inline.bundle.js, inline.bundle.js.map (inline) 0 bytes [entry]
webpack: Compiled successfully.
webpack: Compiling...
30% building modules 1/2 modules 1 active ...rc/app/test-app/test-app.component
.tswebpack: wait until bundle finished: /inline.bundle.js.map
webpack: wait until bundle finished: /polyfills.bundle.js.map
webpack: wait until bundle finished: /styles.bundle.js.map
webpack: wait until bundle finished: /vendor.bundle.js.map
Hash: fdcb6913ed26d55b57fd
Time: 2122ms
chunk {0} polyfills.bundle.js, polyfills.bundle.js.map (polyfills) 166 kB {4}
[initial]
chunk {1} main.bundle.js, main.bundle.js.map (main) 49.9 kB {3} [initial] [re
ndered]
chunk {2} styles.bundle.js, styles.bundle.js.map (styles) 65.3 kB {4} [initia
l]
chunk {3} vendor.bundle.js, vendor.bundle.js.map (vendor) 3.67 MB [initial]
chunk {4} inline.bundle.js, inline.bundle.js.map (inline) 0 bytes [entry]
webpack: Compiled successfully.
dashboard — -bash — 80×24
ndered]
webpack: Compiled successfully.
[13:48:30] I/update - chromedriver: file exists /Applications/MAMP/htdocs/MTproj
ect3/master/dashboard/node_modules/protractor/node_modules/webdriver-manager/sel
enium/chromedriver_2.30.zip
[13:48:30] I/update - chromedriver: unzipping chromedriver_2.30.zip
[13:48:31] I/update - chromedriver: setting permissions to 0755 for /Application
s/MAMP/htdocs/MTproject3/master/dashboard/node_modules/protractor/node_modules/w
ebdriver-manager/selenium/chromedriver_2.30
[13:48:31] I/update - chromedriver: chromedriver_2.30 up to date
[13:48:31] I/launcher - Running 1 instances of WebDriver
[13:48:31] I/direct - Using ChromeDriver directly...
Spec started
dashboard App
✓ should display message saying app works
✓ should display message saying app works
✓ should display message saying app works
✓ Get element by css :
Executed 4 of 4 specs SUCCESS in 7 secs.
[13:48:41] I/launcher - 0 instance(s) of WebDriver still running
[13:48:41] I/launcher - chrome #01 passed
E2ML11514s-MacBook-Pro:dashboard Admin$ -

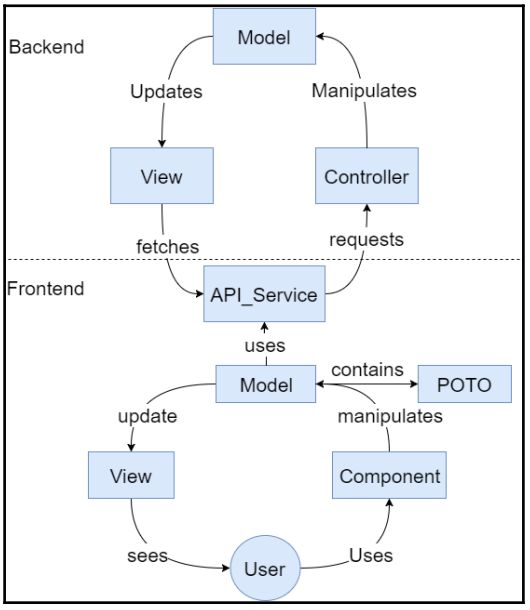
Chapter 17: Design Patterns in Angular

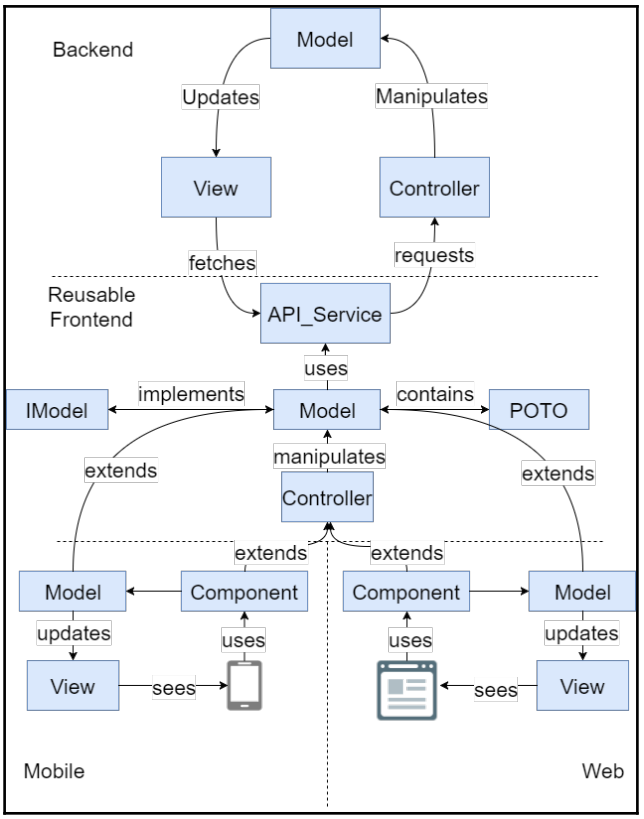







Backend
Model
Updates
Manipulates
View
Controller
fetches
requests
Frontend
API_Service
requests
Model
Updates
Manipulates
View
Controller
Sees
Uses
User


Backend
Model
Updates
Manipulates
View
Controller
fetches
requests
Frontend
API_Service
uses
Model
contains
POTO
update
manipulates
View
Component
sees
User
Uses


Backend
Model
Updates
Manipulates
View
Controller
fetches
requests
Reusable
Frontend
API_Service
uses
IModel
implements
Model
contains
POTO
extends
manipulates
extends
Controller
extends
extends
Model
Component
Component
Model
updates
uses
uses
updates
View
sees
sees
View
Mobile
Web