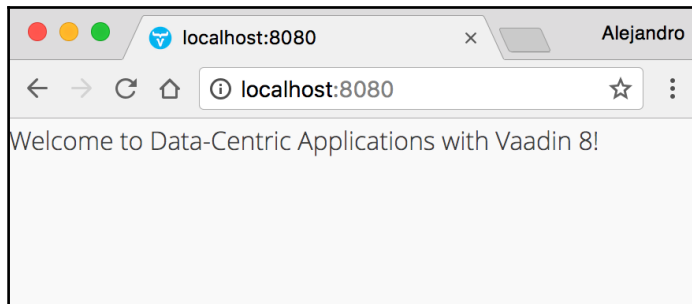
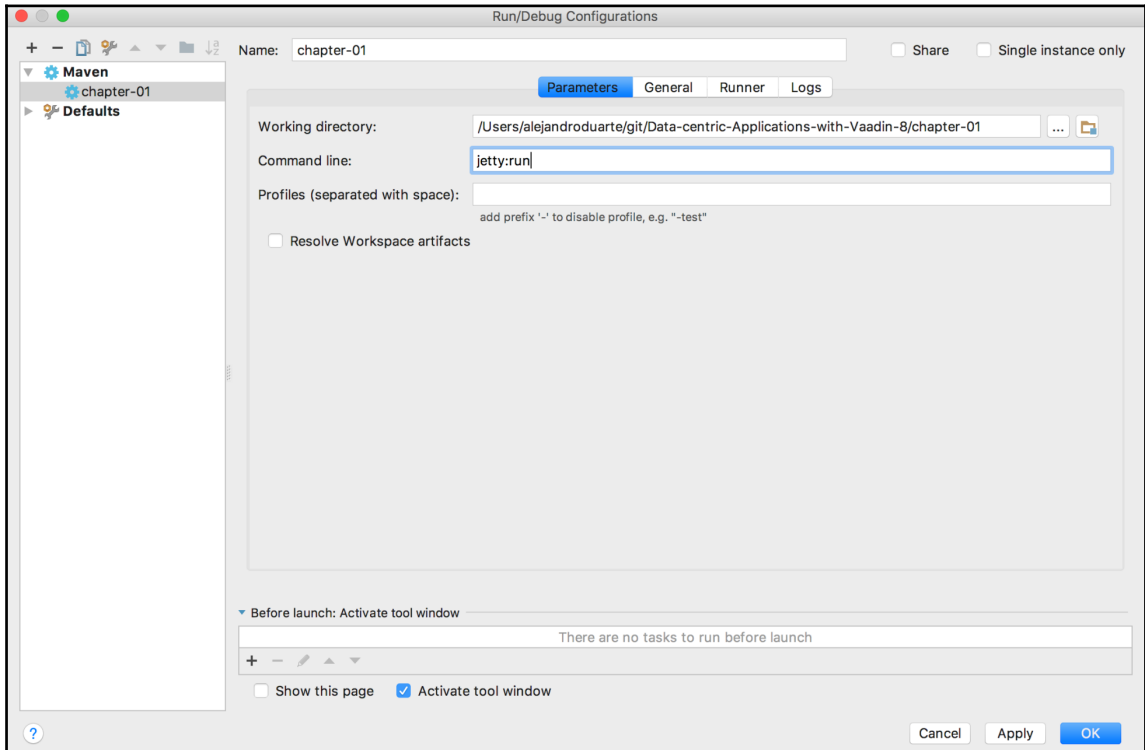
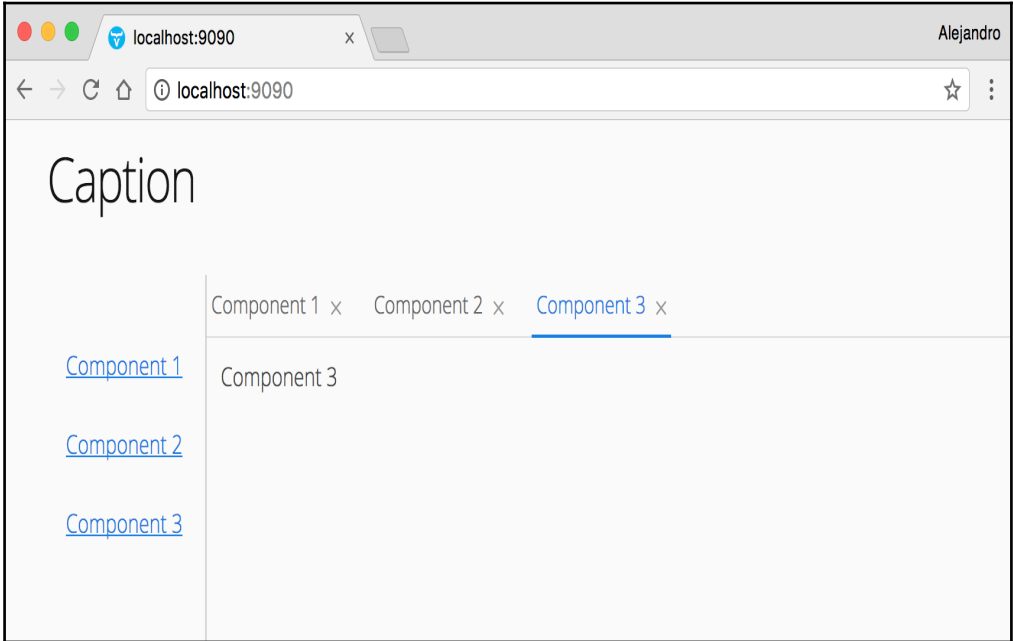


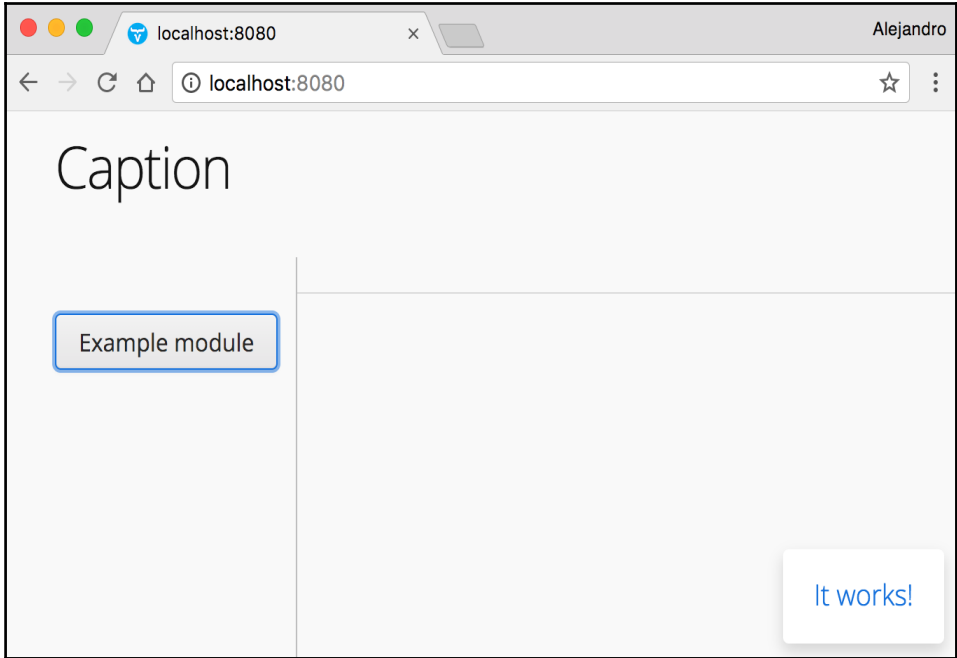
Chapter 1: Creating New Vaadin Projects



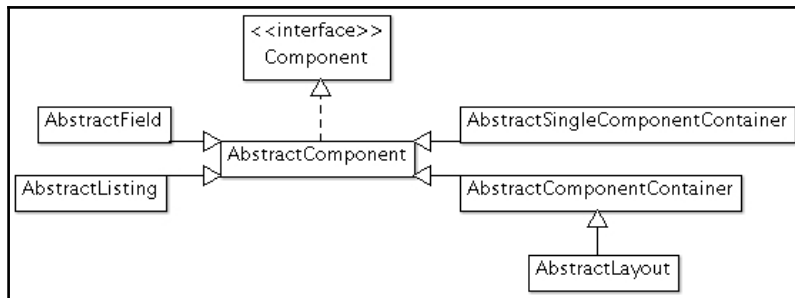
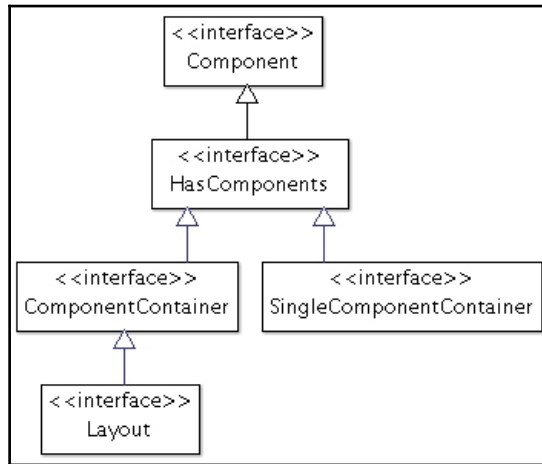
```
1.     private final Command menuCommand = selectedItem -> Notification.show("Action " + selecto
2.
3.     ...
4.
5.     sample = new MenuBar();
6.     sample.setWidth(100.0f, Unit.PERCENTAGE);
7.
8.     ...
9.
10.         final MenuItem child;
11.         if (parent == null) {
12.             child = sample.addItem(caption, command);
13.         } else {
14.             child = parent.addItem(caption, command);
15.             if (addSeparator) {
16.                 parent.addSeparatorBefore(child);
17.             }
18.         }
19.
20.         child.setEnabled(enabled);
21.         child.setIcon(icon);
```

Chapter 2: Modularization and Main Screens





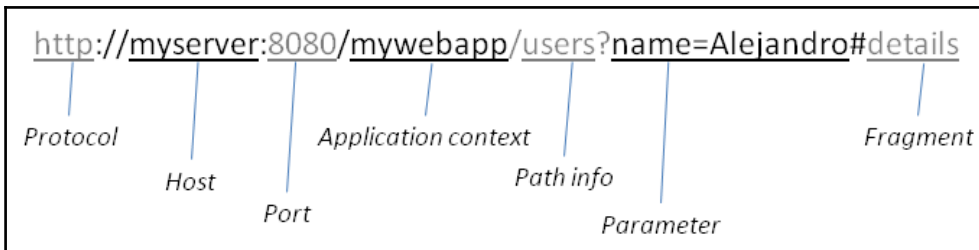
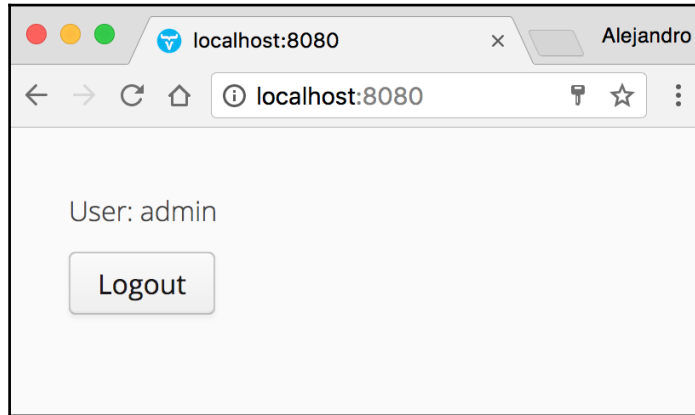
Chapter 3: Implementing Server-Side Components with Internationalization



A screenshot of a web browser window. The address bar shows "localhost:8080" and the page title is "Alejandro". The browser interface includes navigation buttons (back, forward, refresh, home), a search icon, and a star icon for bookmarks. The main content area contains a login form with the following elements:

- A text input field labeled "Usuario" with a blue border.
- A text input field labeled "Contraseña".
- A button labeled "Acceder".
- A checkbox labeled "Recordarme".

Chapter 4: Implementing Authentication and Authorizati on



Chapter 5: Connecting to SQL Databases Using JDBC

Login

Saved Settings:

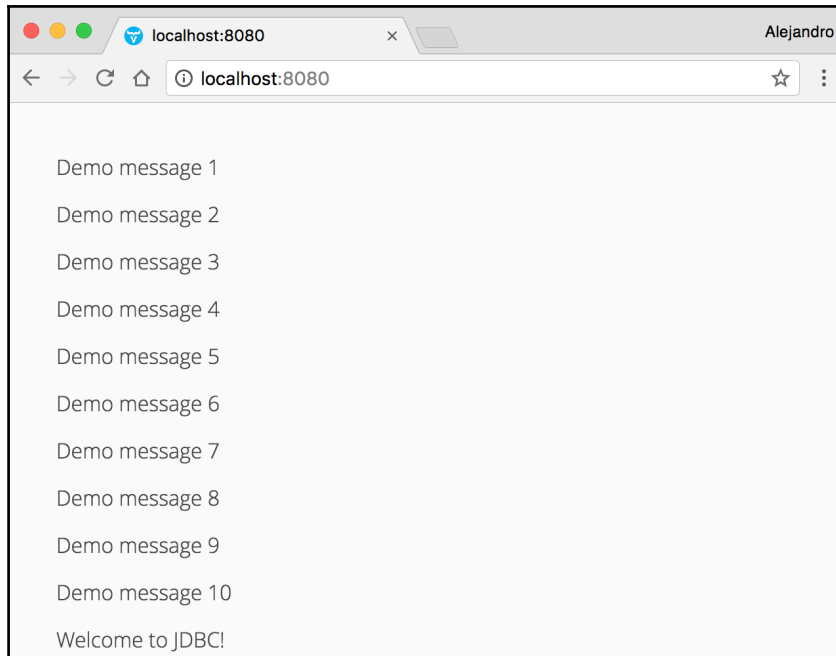
Setting Name:

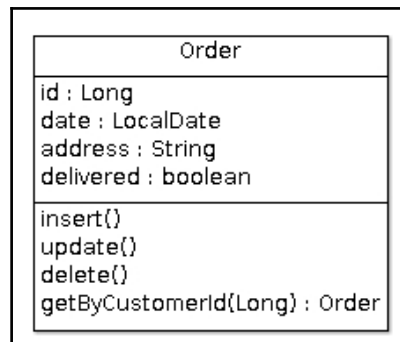
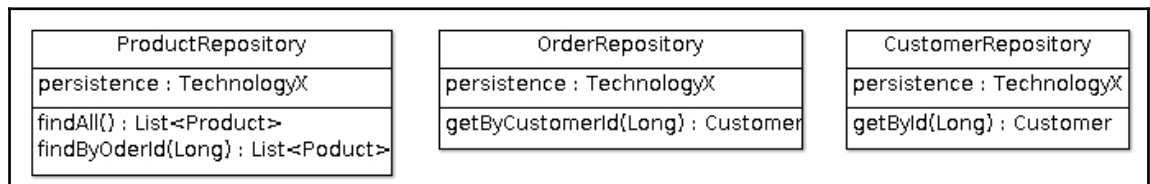
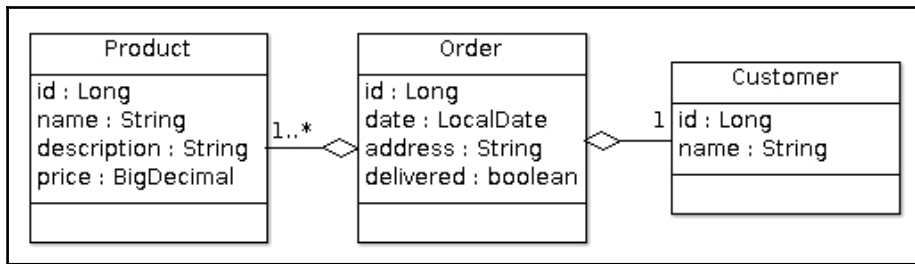
Driver Class:

JDBC URL:

User Name:

Password:





Chapter 6: Connecting to SQL Databases Using ORM Frameworks

Id	Content
<input type="text" value="Enter a new message..."/>	
<input type="button" value="Save"/>	

Chapter 7: Implementing CRUD User Interfaces

Add			
Column 1	Column 2	Column 3	Column 4
Value	Value	Value	Value
Value	Value	select	▼ Value
Value	Value	option	Value
Value	Value	option	Value
Value	Value	option	Value
Value	Value	option	Value
Value	Value	option	Value

First Name	Last Name	Email	Password	Blocked
First1	Last1	user1@test.com	*****	false
First2	Last2	user2@test.com	*****	<input checked="" type="checkbox"/>
				Save Cancel
First5	Last5	user5@test.com	*****	false
First6	Last6	user6@test.com	*****	false
First7	Last7	user7@test.com	*****	true

Column 1	Column 2	Column 3	Column 4	Column 5
Content	Content	Content	Content	Content
Content	Content	Content	Content	Content
Content	Content	Content	Content	Content
Content	Content	Content	Content	Content
Content	Content	Content	Content	Content
Content	Content	Content	Content	Content
Content	Content	Content	Content	Content
Content	Content	Content	Content	Content

New record [-] [□] [X]

text

option ▼

Checkbox

Slider

—●—

Cancel Save

New organization

- ▶ Organization 1
 - ▼ Department 1
 - ▶ Department 2
 - Employee 1
 - Employee 2
 - Employee 3
 - Employee 4
 - Employee 5
- ▼ Organization 2
- ▼ Organization 3

Delete Add Employee

Department 1

option ▼

Checkbox

Slider

—●—

Cancel Save

```

@Override
public String toString() {
    return getN();
}
}

```

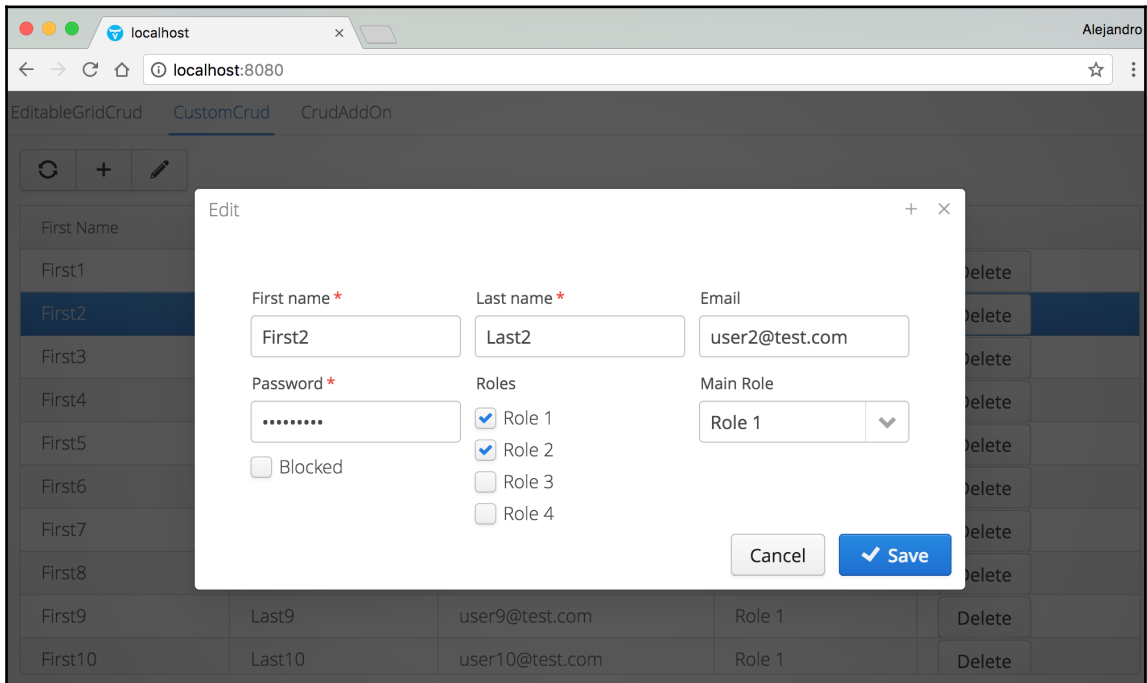
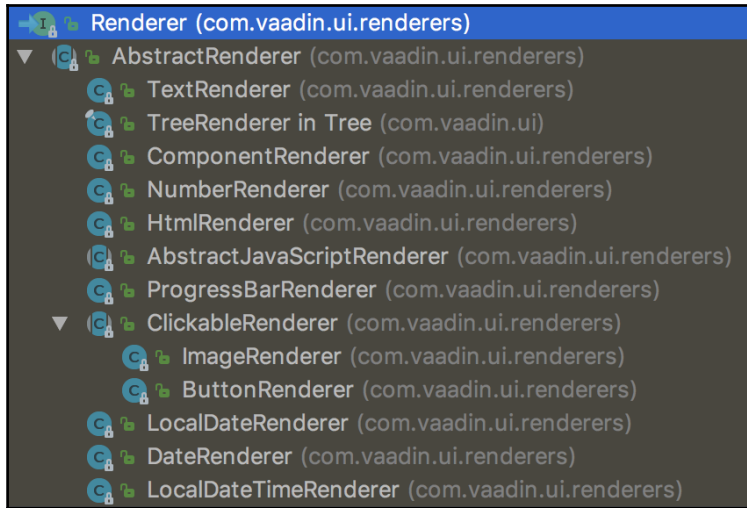
m getName () String
C GetNamespaceMessage (sun.plugin2.message)
C GetMethodFromPropertyName (org.hibernate.validator.internal.ut...
 Press ^Space to see non-imported classes >>

localhost x Alejandro

localhost:8080

EditableGridCrud CustomCrud CrudAddOn

First Name	Last Name	Email	Password	Blocked
First1	Last1	user1@test.com	*****	false
First2	Last2	user2@test.com	*****	false
First3	Last3	user3@test.com	*****	<input checked="" type="checkbox"/>
				Save Cancel
First5	Last5555	user5@test.com	*****	false
First6	Last6	user6@test.com	*****	false
First7	Last7	user7@test.com	*****	false
First8	Last8	user8@test.com	*****	false
First9	Last9	user9@test.com	*****	false



localhost Alejandro

localhost:8080

EditableGridCrud CustomCrud CrudAddOn

↻ + ✎

Main Role	Last Name	First Name	Password	Blocked	Roles	Id	Email

localhost x Alejandro

localhost:8080

EditableGridCrud CustomCrud CrudAddOn

First Name	Last Name	Email	Main Role
First1	Last1	user1@test.com	Role 1
First2	Last2	user2@test.com	Role 1
First3	Last3	user3@test.com	Role 1
First4	Last4	user4@test.com	Role 1
First5	Last5	user5@test.com	Role 1
First6	Last6	user6@test.com	Role 1
First7	Last7	user7@test.com	Role 1
First8	Last8	user8@test.com	Role 1
First9	Last9	user9@test.com	Role 1
First10	Last10	user10@test.com	Role 1
First11	Last11	user11@test.com	Role 1
First12	Last12	user12@test.com	Role 1
First13	Last13	user13@test.com	Role 1
First14	Last14	user14@test.com	Role 1
First15	Last15	user15@test.com	Role 1

Refresh + Edit Delete

First Name *

Last Name *

Email

Password *

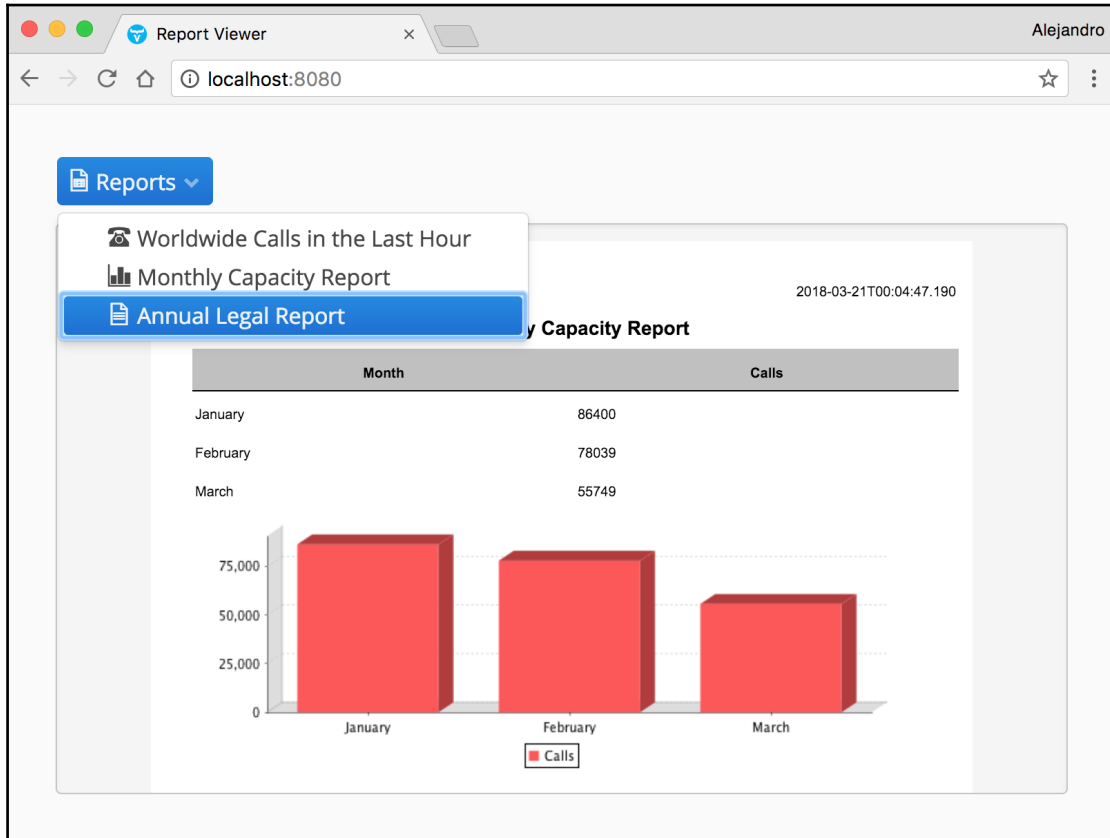
Roles Role 1 Role 2 Role 3 Role 4

Main Role ▼

Blocked

Cancel

Chapter 8: Adding Reporting Capabilities



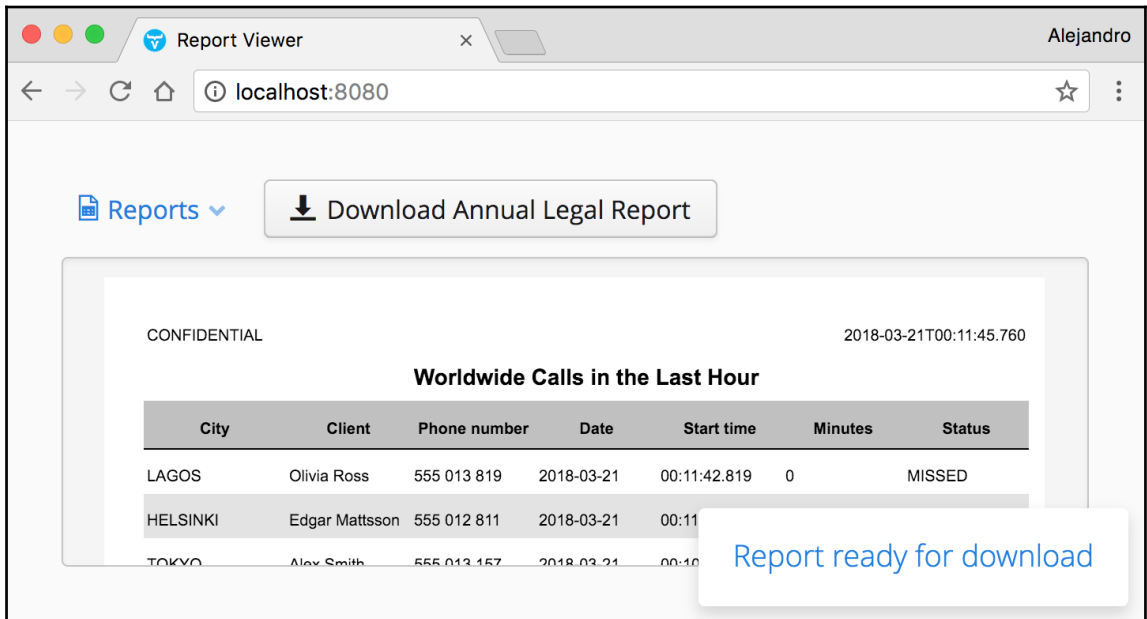
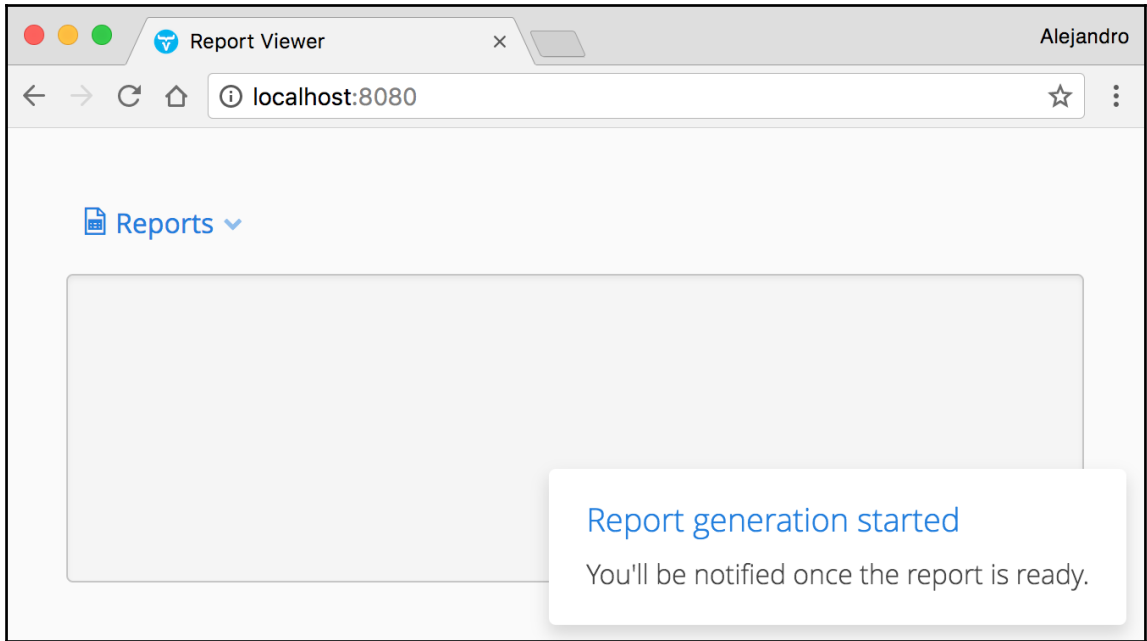
CONFIDENTIAL

2018-02-01T19:58:28.422

Worldwide Calls in the Last Hour

City	Client	Phone number	Date	Start time	Minutes	Status
TOKYO	Alex Allison	555 016 350	2018-02-01	19:58:16.812	0	MISSED
VANCOUVER	Edgar Simpson	555 016 436	2018-02-01	19:57:45.702	14	RECEIVED
BOGOTA	Alex Mattsson	555 011 057	2018-02-01	19:57:14.592	6	RECEIVED
BOGOTA	Marian Brown	555 013 351	2018-02-01	19:56:43.483	0	MISSED
BOGOTA	Joshua Ross	555 011 332	2018-02-01	19:56:12.375	0	MISSED
BERLIN	Alice Simons	555 018 428	2018-02-01	19:55:41.264	0	MISSED
BERLIN	Dan Verne	555 012 041	2018-02-01	19:55:10.153	0	MISSED
SIDNEY	Mike Barks	555 013 406	2018-02-01	19:54:39.045	10	RECEIVED
SAN_FRANCISCO	Joshua Smith	555 018 911	2018-02-01	19:54:07.939	0	MISSED
BERLIN	Edgar Barks	555 011 668	2018-02-01	19:53:36.828	0	MISSED
LONDON	John Scott	555 016 682	2018-02-01	19:53:05.719	0	MISSED
HELSINKI	Peter Scott	555 018 312	2018-02-01	19:52:34.611	0	MISSED
BOGOTA	Peter Simons	555 013 609	2018-02-01	19:52:03.5	0	MISSED
BERLIN	Peter Simons	555 015 572	2018-02-01	19:51:32.391	0	MISSED
TOKYO	Alex Clavel	555 019 922	2018-02-01	19:51:01.285	0	MISSED
BEIJING	Rita Verne	555 010 319	2018-02-01	19:50:30.175	0	MISSED

$$a_n = \frac{(n-1)a_{n-1} + x_n}{n}$$



Chapter 9: Lazy Loading

A screenshot of a web browser window titled "Call Browser" with the URL "localhost:8080". The search bar contains "Client / Phone / City" and shows "504559 calls found". A table displays call records with columns: Id, Client, Phone Number, City, Start Time, Duration, and Status. The table contains 10 rows of data.

Id	Client	Phone Number	City	Start Time	Duration	Status
66	Mike Allison	555 018 825	LONDON	2017-09-26T14:45:24.774	12	RECEIVED
67	Alice Gates	555 013 783	BEIJING	2017-09-26T14:45:55.774	20	RECEIVED
68	Juan Gates	555 019 249	BEIJING	2017-09-26T14:46:26.774	4	RECEIVED
69	Nicole Simons	555 018 628	VANCOUVER	2017-09-26T14:46:57.774	5	RECEIVED
70	Mike Scott	555 014 256	BERLIN	2017-09-26T14:47:28.774	15	RECEIVED
71	Henrik Smith	555 012 441	SIDNEY	2017-09-26T14:47:59.774	0	MISSED
72	Marian Scott	555 016 960	BERLIN	2017-09-26T14:48:30.774	20	RECEIVED
73	Marian Brown	555 013 917	TURKU	2017-09-26T14:49:01.774	16	RECEIVED
74	Peter Ross	555 017 889	HELSINKI	2017-09-26T14:49:32.774	7	RECEIVED
75	John Clavel	555 015 153	LAGOS	2017-09-26T14:50:03.774	20	RECEIVED

A screenshot of a web browser window titled "Call Browser" with the URL "localhost:8080". The search bar contains "Client / Phone / City" and shows "507272 calls found". A table displays call records with columns: Id, Client, Phone Number, City, Start Time, Duration, and Status. The table contains 8 rows of data, with the "City" column highlighted. The "Client" and "City" columns have small upward arrows indicating sorting options.

Id	Client	Phone Number	City	Start Time	Duration	Status
...	Alex Allison	555 016 628	BEIJING	2017-09-26T22:42:17.774	8	RECEIVED
...	Alex Allison	555 012 148	BEIJING	2017-09-27T08:17:20.774	6	RECEIVED
...	Alex Allison	555 015 355	BEIJING	2017-09-28T11:01:35.774	3	RECEIVED
...	Alex Allison	555 018 659	BEIJING	2017-09-30T03:58:20.774	0	MISSED
...	Alex Allison	555 019 102	BEIJING	2017-10-01T09:15:00.774	0	MISSED
...	Alex Allison	555 017 311	BEIJING	2017-10-05T06:23:47.774	0	MISSED
...	Alex Allison	555 018 369	BEIJING	2017-10-05T13:09:53.774	0	MISSED
...	Alex Allison	555 013 549	BEIJING	2017-10-06T11:48:12.774	17	RECEIVED

