ReadMe File

Bank Application

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Date: 2017-04-28

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1. Tools

The project uses the following tools:

Spring Tool Suite – how to install

https://spring.io/tools/sts/all

MySQl WorkBench – how to install

https://dev.mysql.com/doc/workbench/en/wb-installing-linux.html
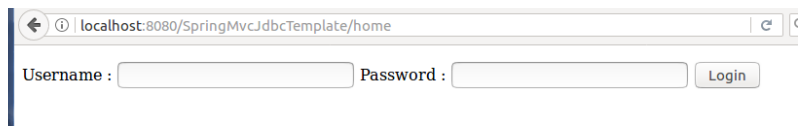
Tomcat v8.0 – how to install

https://tomcat.apache.org/download-80.cgi

2. Using the application

Steps for using the application:

1. Login

The are 3 possible results for login operation:
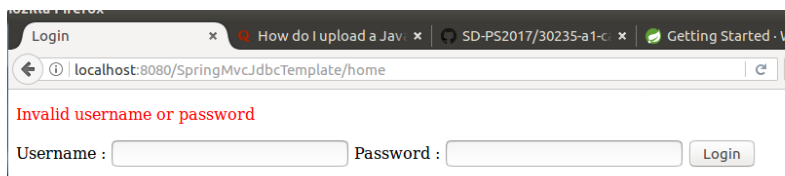
1.1 Invalid login

– when the username is not in the data base or the password is wrong
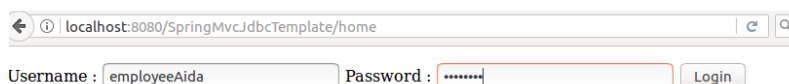
1.2 Login as employee

– redirects to the homeEmployee page where we can see all the costumers

In this example we used the following data:
username: employeeAida
password: password
We can use any username and password from the database. (All the employees that are already in the database have the password 'password').

1.3 Login as admin

– redirect to the homeAdmin page where we can see all the employees

In this example we used the following data:
username: root
password: root

2. Choose an operation

2.1 As Employee

While an employee is logged in, the message "Logged as an employee" is displayed on the left upper corner.
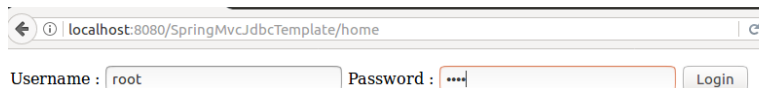
2.1.1 Create a new costumers

Costumer List

New Costumer

No	Name	Email	Address	Telephone	Action	
1	Stefan	stefan@sql.com	Timisoara	0753262625	Edit	Delete
2	Carina	carina@sql.com	Cluj	0726105095	Edit	Delete
3	Aida	aida@sql.com	Cluj	0745154875	Edit	Delete
4	Mihai	mihai@sql.com	Oradea	0754144744	Edit	Delete
5	Iulia	iulia@sql.com	Bacau	0753262678	Edit	Delete

See Accounts Make Transaction

Logout

New/Edit Costumer

Name: [   ] Field can not be null
Email: [   ] Please enter a valid e-mail
Address: [   ] Field can not be null
Telephone: [   ] Please enter a valid phone number

Save

Logout

New/Edit Costumer

Name: [Carina]
Email: [carina@sql.com]
Address: [Cluj]
Telephone: [074] Please enter a valid phone number

Save

Logout

Costumer List

New Costumer

No	Name	Email	Address	Telephone	Action	
1	Stefan	stefan@sql.com	Timisoara	0753262625	Edit	Delete
2	Carina	carina@sql.com	Cluj	0726105095	Edit	Delete
3	Aida	aida@sql.com	Cluj	0745154875	Edit	Delete
4	Mihai	mihai@sql.com	Oradea	0754144744	Edit	Delete
5	Iulia	iulia@sql.com	Bacau	0753262678	Edit	Delete
6	Carina	carina@sql.com	Cluj	0745141517	Edit	Delete

See Accounts Make Transaction

Logout

2.1.2 Edit/Delete costumers

For deleting a costumer, the employee needs to press the Delete link.
For updating a costumer, the employee needs to press the Edit link and the page will display a form where all the information can be updated and saved.

2.1.3 See Accounts

Account List

New Account

No	Balance	Creation Date	Type	ID Costumer	Action	
1	160	2013-02-17	credit	1	Edit	Delete
2	500	2012-12-12	credit	3	Edit	Delete
3	200	2017-04-28	credit	2	Edit	Delete
4	50	2017-04-28	credit	5	Edit	Delete

See Costumers Make Transaction

Logout

Pressing the link See Accounts will display a table containing all the accounts.

2.1.4 Create a new account

New/Edit Account

Balance: `400`

Date (YYYY-MM-DD): `2017-04-28`

Type: ● Credit
○ Debit

Costumer's ID: `2`

Save

Logout

The Date field is a read only field which is automatically completed with the current date to avoid invalid or false data.

2.1.5 Edit/Delete account

Account List

New Account

No	Balance	Creation Date	Type	ID Costumer	Action	
1	160	2013-02-17	credit	1	Edit	Delete
2	500	2012-12-12	credit	3	Edit	Delete
3	200	2017-04-28	credit	2	Edit	Delete
4	50	2017-04-28	credit	5	Edit	Delete

See Costumers Make Transaction

Logout

For deleting an account, the employee needs to press the Delete link.
For updating an account, the employee needs to press the Edit link and the page will display a form where all the information can be updated and saved.

2.1.6 Make transaction

New Transaction

Amount: [50]

Type: ⦿ Pay Bill
                         ○ Transfer Money

Creation Date (YYYY-MM-DD): [2017-04-28]

Employee's ID: [2]

Account From: [2]

Account To: [1]

[Save]

[Logout]

Transaction List

New Transaction

No	Amount	Type	Creation Date	Employee's ID	Account From	Account To
1	30	transfer	2017-05-02	1	2	1
2	45	pay bill	2000-10-03	1	1	1
3	10	transfer	2017-04-25	1	1	2
4	10	transfer	2013-02-15	1	1	2
5	20	Transfer	2017-04-30	1	2	1
6	20	Pay Bill	2013-02-18	1	1	2
7	2	Transfer	2010-03-09	2	2	2
8	20	Pay Bill	2013-02-15	2	1	3
9	10	Transfer	2017-04-27	2	1	3
10	0	Pay Bill	2017-04-27	0	0	0
11	0	Pay Bill	2017-04-28	2	0	0
12	0	Pay Bill	2017-04-28	2	0	0
13	20	Pay Bill	2017-04-28	2	1	2
14	50	Pay Bill	2017-04-28	2	2	1

See Accounts Make Transaction See Costumers

[Logout]

The New Transaction form is also secured. The Creation Date field is completed automatically with the current date and the Employee's ID is filled with the logged in employee's id.

Also, when a transaction is made, the amount of money will be transfered from an account to another.

2.2 As Admin

While an admin is logged in, the message "Logged as an Admin" is displayed on the left upper corner.

2.2.1 Create a new employee

Employee List

New Employee

No	Name	Username	Password	Email	Action	
1	Carina	employeeCarina	password	carina@sql.com	Edit	Delete
2	Aidut	employeeAida	password	aida@sql.com	Edit	Delete
3	Andrei	employeeAndrei	passwors	andrei@sql.com	Edit	Delete

See Transaction

Logout

New/Edit Employee

Name: Carina
Username: employeeCarina
Password: ••••••••
Email: carina@sql.com

Save

Logout

New/Edit Employee

Name: [ ] Field can not be null
Username: [ ] Field can not be null
Password: [ ] Field can not be null
Email: [ ] Field can not be null
Please enter a valid e-mail

Save

Logout

New/Edit Employee

Name: Carina
Username: employeeCarina
Password: ••••••••
Email: carina@sql   Please enter a valid e-mail

Save

Logout

When the admin authenticate in the application, the page will be redirected to the Employee List where all the employees are visible. After pressing the New Employee link, the page will display a form. Every field validates data before saving it in the database.

2.2.2 Edit/Delete employee

Employee List

New Employee

No	Name	Username	Password	Email	Action	
1	Carina	employeeCarina	password	carina@sql.com	Edit	Delete
2	Aidut	employeeAida	password	aida@sql.com	Edit	Delete
3	Andrei	employeeAndrei	passwors	andrei@sql.com	Edit	Delete

See Transaction

Logout

For deleting an employee, the admin needs to press the Delete link.
For updating an employee, the admin needs to press the Edit link and the page will display a form where all the information can be updated and saved.

2.2.3 See transactions

New Report

Start Date (YYYY-MM-DD): 2010-03-10

End Date (YYYY-MM-DD): 2017-02-02

Employee's ID : 1

Find

Logout

Transaction List

No	Amount	Type	Creation Date	Employee's ID	Account From	Account To
1	10	transfer	2013-02-15	1	1	2
2	20	Pay Bill	2013-02-18	1	1	2

See Employees

Logout

For generating a new report, the admin needs to press the See Transaction link. After filling the form and pressing the Find button, he is able to see all the transactions made by the employee.

3. Logout

All the pages diplay a Logout button which redirects the user to the main login page.

Costumer List

New Costumer

No	Name	Email	Address	Telephone	Action	
1	Stefan	stefan@sql.com	Timisoara	0753262625	Edit	Delete
2	Carina	carina@sql.com	Cluj	0726105095	Edit	Delete
3	Aida	aida@sql.com	Cluj	0745154875	Edit	Delete
4	Mihai	mihai@sql.com	Oradea	0754144744	Edit	Delete
5	Iulia	iulia@sql.com	Bacau	0753262678	Edit	Delete

See Accounts Make Transaction

Logout