System Requirements Specification Index

For

Loan Management Application

Version 1.0

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Contents

1 BUSINESS-REQUIREMENT:

1.1 PROBLEM STATEMENT:

The purpose of this application is to allow the company to manage all its allotted loans.

1.1.1 Loan Management:

The Loan Management allows you to:

1. Access home page
2. Should be able to add a new loan
3. It can have basic fields like First Name, Last Name, Email, Amount, Interest & Term
4. Should be able to get the list of loan

5. Search any loan through first name or email

2. TEMPLATE CODE STRUCTURE:

2.1 LOAN CONTROLLER

Method Exposed	Purpose
home()	Should return page "loan_list" with required data.
listLoan()	Should return all loans with page "loan"
createLoanForm()	Should return page "create_loan"
saveLoan()	Should save loan and redirect "loan" page.
editLoanForm()	Should open the "edit_loan" page to edit the loan with required data..
updateLoan()	Should update the loan and redirect to 'loan" page.
deleteLoan()	Should delete the loan and redirect to 'loan" page

3. RESOURCES AVAILABLE:

Description	View Pages Name	Remarks
Common UI		
Home Page	loan_list	Contains homepage which shows list of all loans along with options to add, edit and delete a loan.
Loan Details	loan	
Edit a Loan	edit_loan	
Create a Loan	create_loan	

3   Suggested WIREFRAMES:

1. Homepage – Visitor Landing Page

Loan Management System ▭

- Loan Management

Welcome to Loan Management System

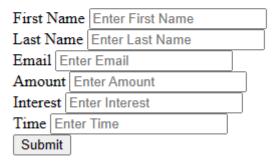| Enter first name or email | Search | Show All Lists |

List Loan

Add Loan

First Name	Last Name	Email	Amount	Interest	Term	Actions
ABC	XYZ	abc@xyx.com	200000.0	12	60	Update Delete

2. Create a Loan

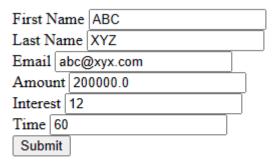Loan Management System

- Loan Management

Create New Loan

First Name [Enter First Name]
Last Name [Enter Last Name]
Email [Enter Email]
Amount [Enter Amount]
Interest [Enter Interest]
Time [Enter Time]
[Submit]

3. Edit a Loan

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Update Loan

First Name ABC
Last Name XYZ
Email abc@xyx.com
Amount 200000.0
Interest 12
Time 60
Submit

4 BUSINESS VALIDATIONS

1. Id must be of type id.
2. FirstName value not blank, min 3 and max 500 characters.
3. LastName value not blank, min 3 and max 500 characters.
4. Email value not blank and must be of type email.
5. Interest value not blank.
6. Term value not blank.

5 CONSIDERATIONS

The Code template already contains skeleton methods for service and controller layer. Please write your logic in it.

6 EXECUTION STEPS TO FOLLOW

1. All actions like build, compile, running application, running test cases will be through Command Terminal.

2. To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) **->** Terminal **->** New Terminal

3. To build your project use command:
   mvn clean package -Dmaven.test.skip

4. To launch your application:
   java -jar springboot-loanmanagement-service-0.0.1-SNAPSHOT.jar

5. This editor Auto Saves the code

6. If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use **CTRL+Shift+B**-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.

7. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.

8. To test any Restful application, the last option on the left panel of IDE, you can find ThunderClient, which is the lightweight equivalent of POSTMAN.

9. This is a web-based application, to run the application on a browser, use the internal browser in the workspace. Click on the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.

   Note: The application will not run in the local browser

10. Default credentials for MySQL:
    a. Username: **root**
    b. Password: **pass@word1**

11. To login to mysql instance: Open new terminal and use following command:
    a. **sudo systemctl enable mysql**
    b. **sudo systemctl start mysql**
    c. **mysql -u root -p**
       The last command will ask for password which is **'pass@word1'**

12. Mandatory: Before final submission run the following command:
    mvn test

13. You need to use **CTRL+Shift+B** - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.