

LOAN MANAGEMENT APPLICATION

IIHT

Time To Complete: 2 hr

CONTENTS

1	Problem Statement	3
2	Proposed Loan Management Application Wireframe	4
2.1	Welcome Page	4
3	Business-Requirement	7
4	Validations	7
5	Constraints	8
6	Mandatory Assessment Guidelines	8

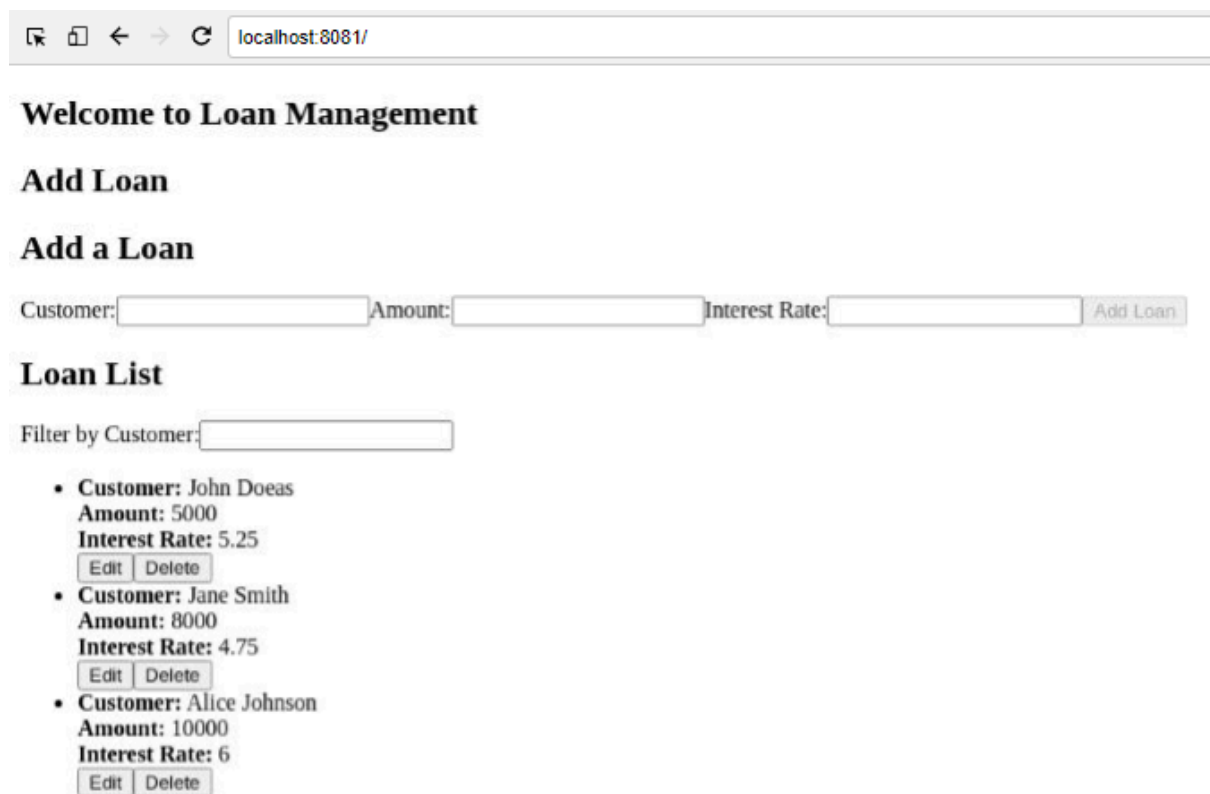
1 PROBLEM STATEMENT

"Loan Management Application" is a Single Page Application (SPA) that empowers banks to have a record of all loans taken by all different users with details.

2 PROPOSED LOAN MANAGEMENT APPLICATION WIREFRAME

UI needs improvisation and modification as per given use case and to make test cases passed.

2.1 WELCOME PAGE



The wireframe shows a web browser window with the address bar set to `localhost:8081/`. The page content includes a heading "Welcome to Loan Management", a sub-heading "Add Loan", and a form with three input fields labeled "Customer:", "Amount:", and "Interest Rate:", followed by an "Add Loan" button. Below this is a section titled "Loan List" with a "Filter by Customer:" input field. A list of three loan entries is displayed, each with a bullet point, customer name, amount, interest rate, and "Edit" and "Delete" buttons.

Welcome to Loan Management

Add Loan

Add a Loan

Customer: Amount: Interest Rate:

Loan List

Filter by Customer:

- **Customer:** John Doeas
Amount: 5000
Interest Rate: 5.25
- **Customer:** Jane Smith
Amount: 8000
Interest Rate: 4.75
- **Customer:** Alice Johnson
Amount: 10000
Interest Rate: 6

3 BUSINESS-REQUIREMENT:

As an application developer, develop the Loan Management Application (Single Page App) with below guidelines:

User Story #	User Story Name	User Story
US_01	Welcome Page	<p>As a user I should be able to visit the welcome page as default page.</p> <p>Acceptance criteria:</p> <ol style="list-style-type: none">1. Users should be able to see a form to add a new loan detail.2. Users should be able to see the list of all loans.3. It must have Customer, Amount & Interest fields along with an Add Loan button.4. List should have an Edit and Delete button to edit and delete a loan respectively.

4 VALIDATIONS

- All required fields must be fulfilled with valid data.
- In the starting "Add Loan" button should be disabled.
- Only after validating fields, "Add Loan" button should be enabled.
- Once we click on "Add Loan", a new loan must be added to the list.

5 CONSTRAINTS

- You should be able to press the "TAB" key and "SHIFT + TAB" to navigate from top field to bottom field and vice-versa.
- On clicking the "Add Loan" button, a new loan must be added with entered fields.
- "Add Loan" button will be disabled until all validations are fulfilled.

6 MANDATORY ASSESSMENT GUIDELINES

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. This editor Auto Saves the code.
4. 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.
5. 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.
6. 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.
7. 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

8. You can follow series of command to setup React environment once you are in your project-name folder:
 - a. npm install -> Will install all dependencies -> takes 10 to 15 min
 - b. npm run start -> To compile and deploy the project in browser. You can press <Ctrl> key while clicking on localhost:8080/8081 to open project in browser -> takes 2 to 3 min
 - c. npm run json-start -> As we are using a json server to mimic our db.json file as a database. So, this command is useful to start a json server.
 - a. npm run jest -> to run all test cases and see the summary. It takes 5 to 6 min to run.

- d. `npm run test` -> to run all test cases. **It is mandatory to run this command before submission of workspace** -> takes 5 to 6 min
9. You may also run “`npm run jest`” while developing the solution to refactor the code to pass the test-cases.
10. Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on **“Submit Assessment”** after you are done with code.
11. 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.