System Requirements Specification Index

For

Issue Tracker Application

Version 1.0

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Contents

1 Business-Requirement:

1.1 Problem Statement:

The purpose of this application is to allow a manager to keep track of all open issues.

1.1.1 Issue Track Application:

The Issue Track Application allows you to:

1. Access home page **(must show option to add an issue, search by issue name or issue description or issue owner and show list of issues with number of pages for pagination).**
2. Should be able to add a new issue.
3. It can have basic fields like Ticket Number, Issue Title, Issue Description, Filling Date, Owner, Current Status and Actions.
4. Should be able to get the list of Issues **(should return data in pages and must have buttons as Asc and Desc in each column to sort list ascending or descending respectively)**.
5. Should be able to edit, delete and update status of any Issue.
6. Should be able to search any issue by issue title or issue description or issue owner **(should be implemented using custom query).**

2. Template Code Structure:

2.1 Issue Controller

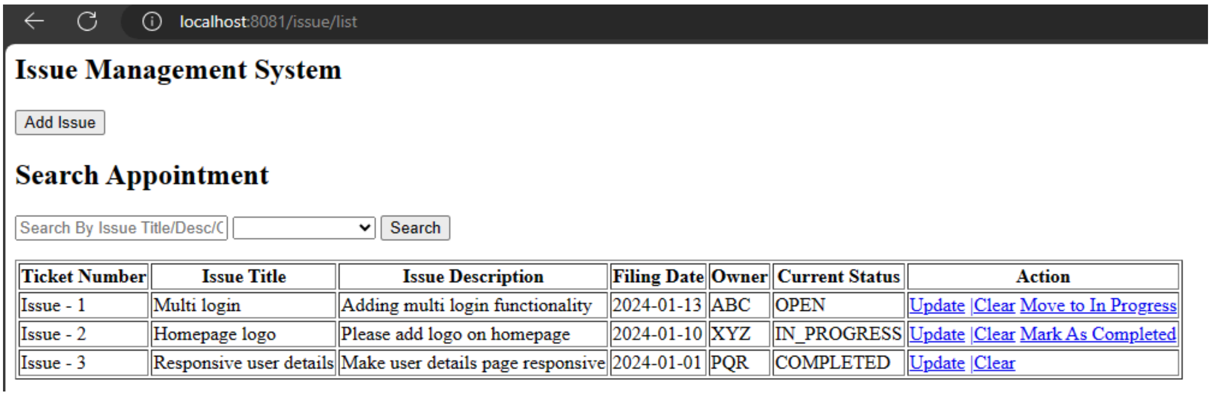
Method Exposed	Purpose
listIssues()	Should return page “list_issues” with required data.
showFormForAdd()	Should return page “issue-add” for adding an Issue.
saveIssue()	Should save an Issue and return “issue/list” with required data.
showFormForUpdate()	Should show issue details in page “issue-add” to edit an Issue.
showFormForDelete()	Should delete an issue and return “issue/list” with required data.
updateStatus()	Should update the status of an issue and return “issue/list” with required data.

3. Resources AVAILABLE:

Description	View Pages Name	Remarks
Common UI		
Home Page	list-issues	Contains a homepage which shows a list of all issues along with options to add, edit and delete an issue.
All Issues	list-issues	
Add an issue	issue-add	
Update an issue	issue-add	

4. Suggested WIREFRAMES:

1. Homepage – Visitor Landing Page

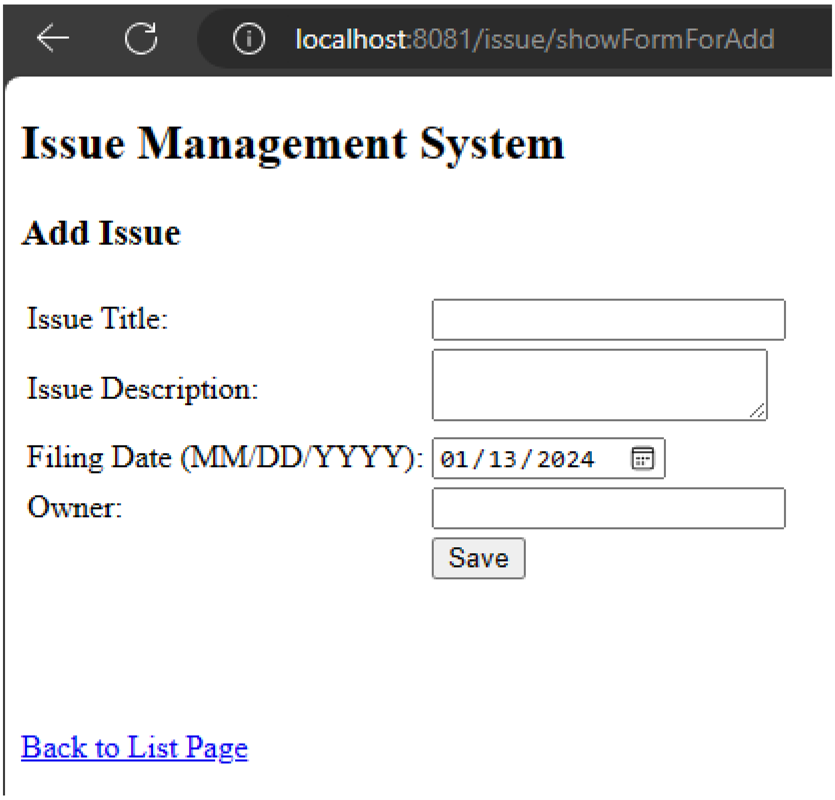


Issue Management System

Search Appointment

Ticket Number	Issue Title	Issue Description	Filing Date	Owner	Current Status	Action
Issue - 1	Multi login	Adding multi login functionality	2024-01-13	ABC	OPEN	Update |Clear Move to In Progress
Issue - 2	Homepage logo	Please add logo on homepage	2024-01-10	XYZ	IN_PROGRESS	Update |Clear Mark As Completed
Issue - 3	Responsive user details	Make user details page responsive	2024-01-01	PQR	COMPLETED	Update |Clear

2. Create an Issue



Issue Management System

Add Issue

Issue Title:

Issue Description:

Filing Date (MM/DD/YYYY): 01/13/2024

Owner:

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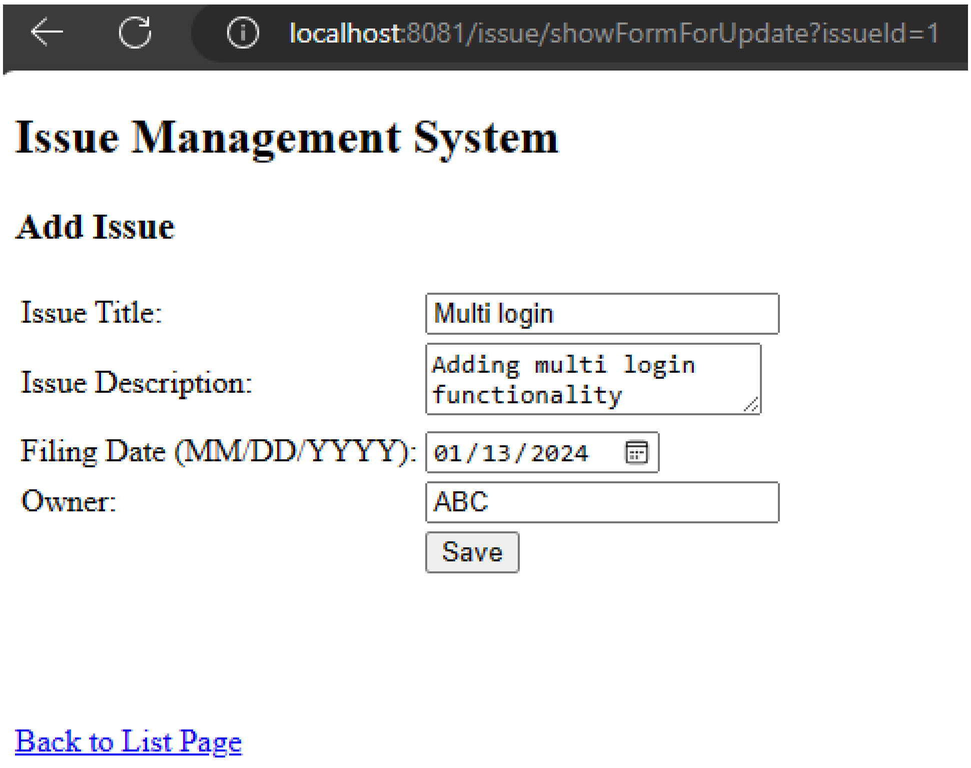
3. Edit an Issue



localhost:8081/issue/showFormForUpdate?issueId=1

Issue Management System

Add Issue

Issue Title:	Multi login
Issue Description:	Adding multi login functionality
Filing Date (MM/DD/YYYY):	01/13/2024
Owner:	ABC

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5. Business Validations

1. Id must be of type id.
2. IssueTitle value should not be blank, min 2 and max 40 characters.
3. IssueDesc values should not be blank, min 2 and max 200 characters.
4. FillingDate value should not be null.
5. Owner value should not be blank and min 2 and max 40 characters.
6. Status should not be null.

6. Considerations

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

7. 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-issue-tracker-0.0.1-SNAPSHOT.war
```

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.