System Requirements Specification Index

For

To-Do Application

Version 1.0

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Contents

1 Business-Requirement:

1.1 Problem Statement:

The purpose of this application is to provide a platform to manage all todos of a user. Where users can add, edit and delete their todos.

1.1.1 Recipe Book:

The Todo Application allows you to:

1. Access the home page.
2. Should be able to add a new todo.
3. It can have basic fields like task, description, taskDate and taskTime.
4. Should be able to get the list of recipes.
5. Should be able to edit and delete any todo.
6. Should be able to search for a todo.

2. Template Code Structure:

2.1 Todo Controller

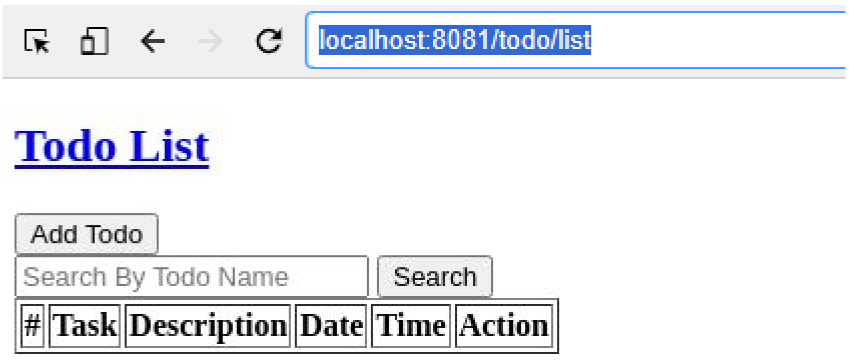
Method Exposed	Purpose
listTodos()	Should return page “list-todos” with required data.
showFormForAdd()	Should return page “add-todo-form” for adding an event.
saveTodo()	Should save a todo and return “todo/list” with required data.
showFormForUpdate()	Should show todo details in page “update-todo-form” to edit a todo.
deleteTodo()	Should delete a todo and return “todo/list” with required data.
searchTodos()	Should search a todo and return “list-todos” with required data.

3. Resources AVAILABLE:

Description	View Pages Name	Remarks
Common UI		
Home Page	list-todos	Contains a homepage which shows a list of all todos along with options to add, edit , delete and search a todo.
All todos	list-todos	
Add a todo	add-todo-form	
Update a todo	update-todo-form	
Search a todo	list-todos	

3 Suggested WIREFRAMES:

1. Homepage – Visitor Landing Page


localhost:8081/todo/list

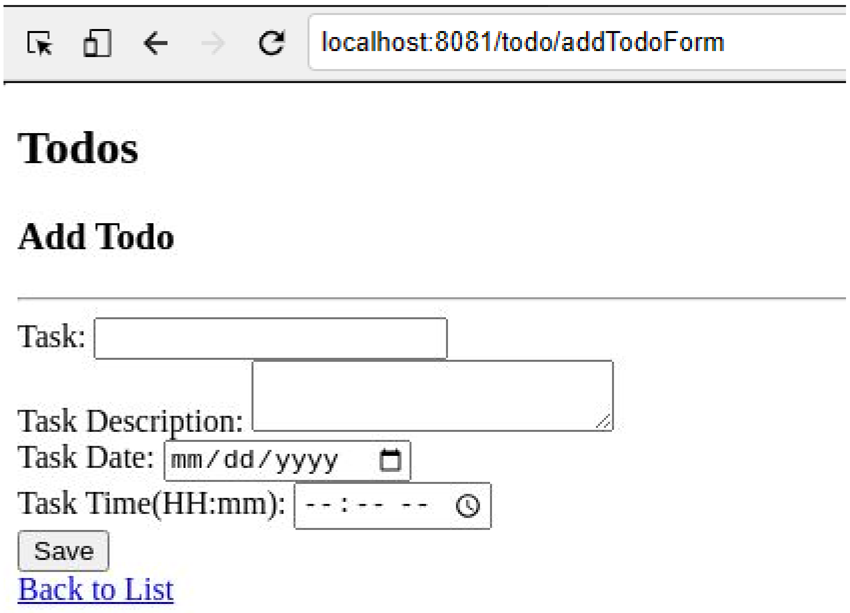
Todo List

Add Todo

Search By Todo Name | Search

#	Task	Description	Date	Time	Action

2. Create a Todo


localhost:8081/todo/addTodoForm

Todos

Add Todo

Task:

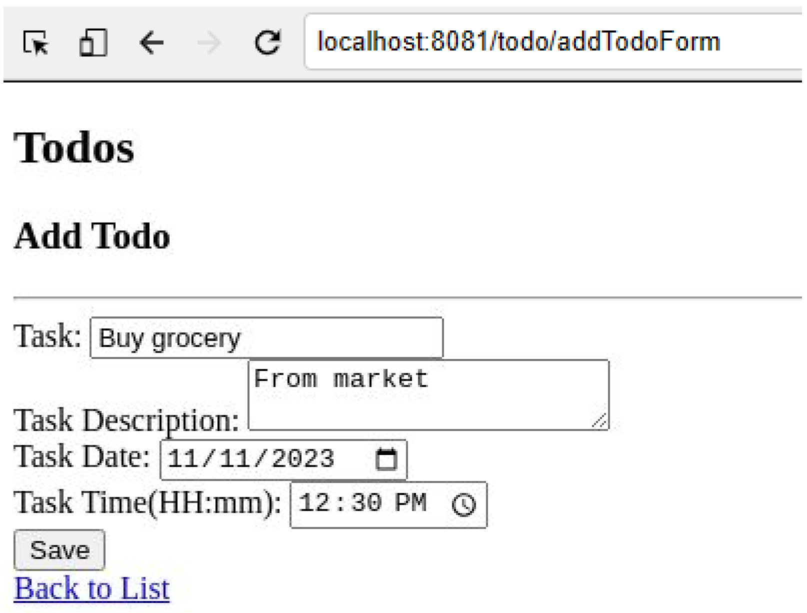
Task Description:

Task Date: mm/dd/yyyy

Task Time(HH:mm): --:-- --

Save

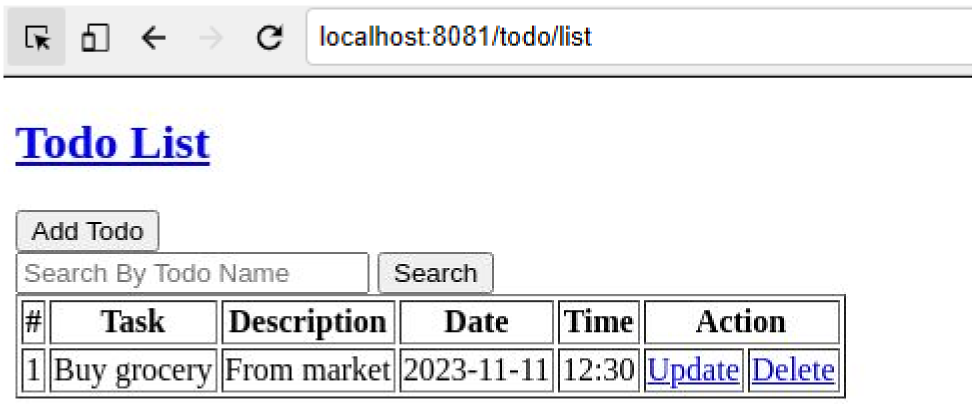
Back to List


localhost:8081/todo/addTodoForm

Todos

Add Todo

Task:	Buy grocery
Task Description:	From market
Task Date:	11/11/2023
Task Time(HH:mm):	12:30 PM


localhost:8081/todo/list

Todo List

#	Task	Description	Date	Time	Action	
1	Buy grocery	From market	2023-11-11	12:30	Update	Delete

Business Validations

1. Id must be of type id.
2. Task value not blank, min 2 and max 200 characters.
3. Description value not blank, min 2 and max 200 characters.
4. Task date value not blank.

5. Task time value not blank.

4 Considerations

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

5 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 <your application war file name>
   ```
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

    NOTE: After typing the second sql command (sudo systemctl start mysql), you may encounter a warning message like :

    > System has not been booted with systemd as init system (PID 1). Can't operate. Failed to connect to bus: Host is down

    >> Please note that this warning is expected and can be disregarded. Proceed to the next step.

    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.