System Requirements Specification Index

For

Laptop Store 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 find all laptops. Where a vendor can add, edit, delete and search any laptop.

1.1.1 Laptop Store Application:

The Laptop Store Application allows you to:

1. Access the home page.
2. Should be able to add a new laptop.
3. It can have basic fields like name, price, brand, storage, ram and processor.
4. Should be able to get the list of laptops.
5. Should be able to edit and delete any laptop.
6. Should be able to search for a laptop.

2. Template Code Structure:

2.1 LaptopController

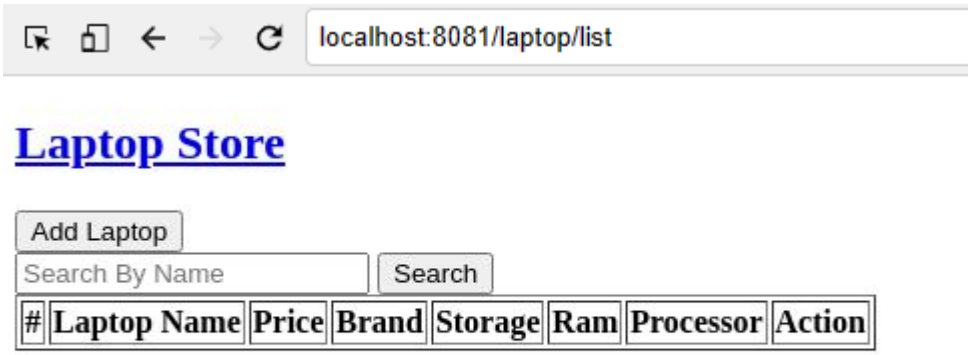
Method Exposed	Purpose
listLaptops()	Should return page “list-laptops” with required data.
showFormForAdd()	Should return page “add-laptop-form” for adding a policy.
saveLaptop()	Should save a laptop and return “laptop/list” with required data.
showFormForUpdate()	Should show laptop details in page “update-laptop-form” to edit a laptop.
deleteLaptop()	Should delete a laptop and return “laptop/list” with required data.
searchLaptops()	Should search for a laptop and return “list-laptops” with required data.

3. Resources AVAILABLE:

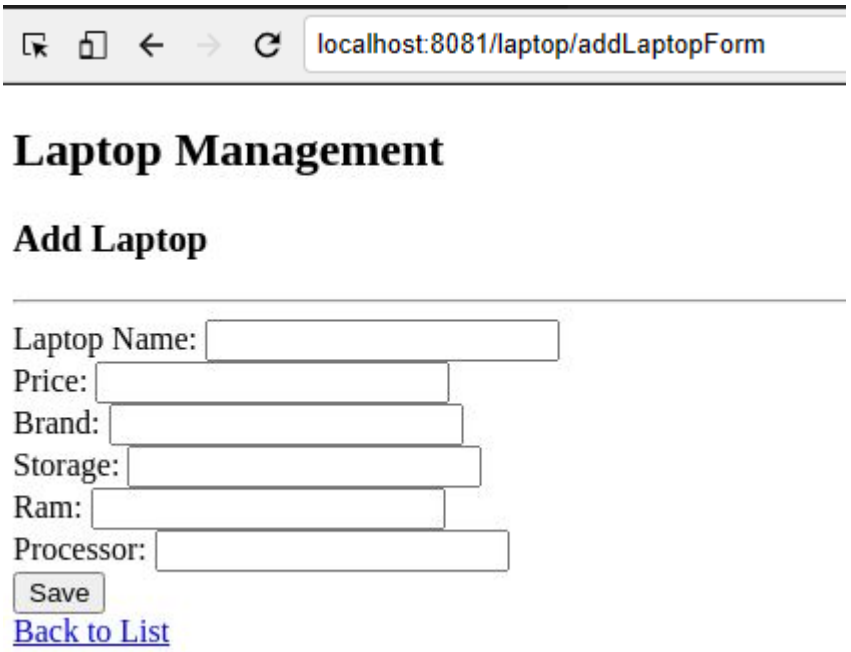
Description	View Pages Name	Remarks
Common UI		
Home Page	list-laptops	Contains a homepage which shows a list of all laptops along with options to add, edit , delete and search a laptop.
All laptops	list-laptops	
Add a laptop	add-laptop-form	
Update a laptop	update-laptop-form	
Search a laptop	list-laptops	

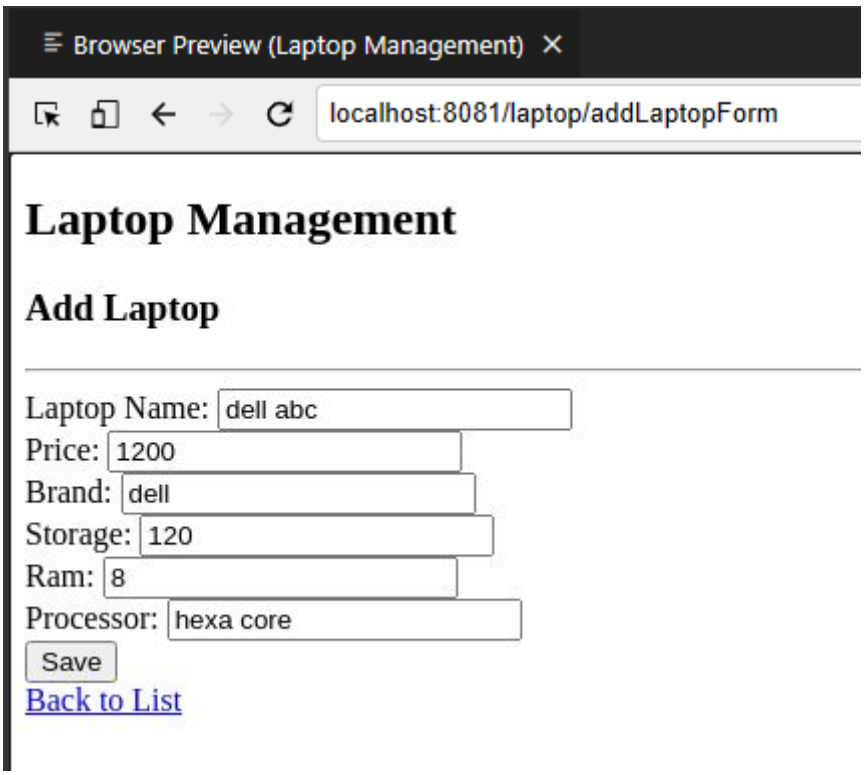
3 SUGGESTED WIREFRAMES:

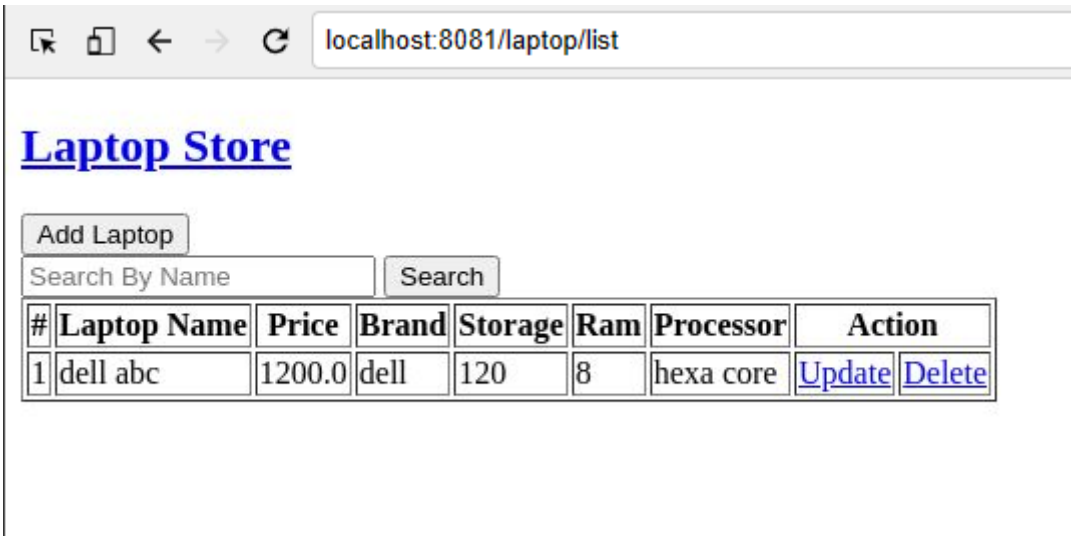
1. Homepage – Visitor Landing Page



2. Create a Laptop







BUSINESS VALIDATIONS

1. Id must be of type id.
2. Name value not blank, min 3 and max 20 characters.
3. Price value not null, min 0 and max 9999.
4. Brand value not blank.

5. Storage value not blank.
6. Ram value not blank.
7. Processor 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**
    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.**