

EXPLORER

MFIVENKATASATYASAIU_20251106TO...

.vscode

src

main

java / com / example / lapt...

controller

dto

entity

exception

repo

service

test

LaptopStoreTests.java

LaptopApplication.java

resources

test / java / com / example / lapt...

dummy.txt

target

JUnit-Mockito-Laptop Store App.d...

pom.xml

OUTLINE

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JAVA PROJECTS

MAVEN

JUnit-Mockito-Laptop Store App.docx.pdf

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Version 1.0

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System Requirements

Specification

SPRING BOOT RESTFUL APPLICATION

1PROJECT ABSTRACT

The Laptop Store App is an application with a backend implemented using Spring Boot with a MySQL database. The application aims to provide a comprehensive platform for managing and organizing laptop related specifications. Your task is to develop a robust suite of test cases that thoroughly evaluate the laptop store activities under various scenarios, ensuring accurate results and error-free performance.

1 PROJECT ABSTRACT

The Laptop Store App is an application with a backend implemented using Spring Boot with a MySQL database. The application aims to provide a comprehensive platform for managing and organizing laptop related specifications.

The Laptop Store App project presents developers with a vital task: to design and implement a comprehensive set of test cases using JUnit&Mockito to validate the functionality of the application.

Your task is to develop a robust suite of test cases that thoroughly evaluate the laptop store activities under various scenarios, ensuring accurate results and error-free performance.

The test suite aims to ensure the accuracy and reliability of the system, providing confidence in its performance and enhancing customer satisfaction.

Following is the requirement specifications:

Laptop Store App	
Modules	
1	Laptop
Event Module Functionalities	
1	Add new Laptop details
2	Update the existing Laptop details
3	Get the Laptop details by Id
4	Get all Laptops details
5	Delete a Laptop
6	Search for Laptop by name, price and band

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2 REST ENDPOINTS

Rest End-points exposed in the controller along with method details:

2.1 LAPTOP CONTROLLER

URL Exposed		Purpose
1. /laptops		Fetches all the laptops
Http Method	GET	
Parameter	-	
Return	List<Laptops>	
2. /laptops		Add a new laptop details
Http Method	POST	
Parameter 1	Laptop	
Return	Laptop	
3. /laptops/{id}		Delete laptop with given laptop id
Http Method	DELETE	
Parameter 1	Long (id)	
Return	-	
4. /laptops/{id}		Fetches the laptop with the given id
Http Method	GET	
Parameter 1	Long (id)	
Return	Laptop	
5. /laptops/{id}		Updates existing Laptop info
Http Method	PUT	
Parameter 1	Long (id)	
Parameter 2	Laptop	
Return	Laptop	

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5. /laptops/{id}	PUT	Updates existing Laptop
Http Method	PUT	
Parameter 1	Long (id)	
Parameter 2	Laptop	
Return	Laptop	

6. /laptops/search?name={name}	GET	Search the laptop with the given name
Http Method	GET	
Parameter 1	String (name)	
Return	List<Laptops>	

7. /laptops/search?price={price}	GET	Search the laptop with the given price
Http Method	GET	
Parameter 1	Double (price)	
Return	List<Laptops>	

8. /laptops/search?brand={brand}	GET	Search the laptop with the given brand
Http Method	GET	
Parameter 1	String (brand)	
Return	List<Laptops>	

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3 TEMPLATE CODE STRUCTURE

PACKAGE: com.example.laptopstore

Resources

LaptopApplication (Class)	This is the Spring Boot starter class of the application.	Already Implemented
---------------------------	---	---------------------

3.1 PACKAGE: com.example.laptopstore.test

Resources

Class/Interface	Description	Status
LaptopStoreTests	This class needs to contain JUnit & Mockito test cases to verify the correctness of the methods in the LaptopController and LaptopServiceImpl classes	Not Implemented

Make sure the test cases you write

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3.5 PACKAGE: com.example.laptopstore.controller

Resources

Class/Interface	Description	Status
LaptopController (Class)	<ul style="list-style-type: none">Controller class to expose all rest-endpoints for laptop related activities.May also contain local exception handler methods	Already implemented.

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3.6 PACKAGE: com.example.laptopstore.dto

Resources

Class/Interface	Description	Status
LaptopDTO (Class)		Already implemented.

3.7 PACKAGE: com.example.laptopstore.entity

Resources

Class/Interface	Description	Status
Laptop (Class)		Already implemented.

