

1. Unit Test Results (JUnit)

The screenshot displays an IDE window for a project named 'taskmanager'. The 'Project' view on the left shows the directory structure: 'resources', 'test', 'java', 'com.swaraj.taskmanager', 'controller', 'service', and 'TaskmanagerApplicationTests'. The 'Code' view in the center shows the source code for 'TaskmanagerApplicationTests.java', which includes imports for 'SpringBootTest' and 'TaskmanagerApplication', and a test method 'contextLoads()'. The 'Coverage' window on the right shows the coverage for 'TaskmanagerApplicationTests', with columns for 'Element', 'Class, %', 'Method, %', 'Line, %', and 'Branch, %'. The 'Run' console at the bottom shows the execution of the tests, with a summary of '16 tests passed' and a total time of '1 sec 83 ms'. The console also displays the output of the tests, including a warning about Mockito and a message about Spring Boot.

Project Structure:

- resources
- test
 - java
 - com.swaraj.taskmanager
 - controller
 - service
 - TaskmanagerApplicationTests
- target
- .gitattributes
- .gitignore
- HELP.md

Code Editor:

```
1 package com.swaraj.taskmanager;
2
3 import org.springframework.boot.test.context.SpringBootTest;
4
5 @SpringBootTest
6 class TaskmanagerApplicationTests {
7
8     @Test
9     void contextLoads() {
10
11     }
12 }
13
```

Coverage:

Element	Class, %	Method, %	Line, %	Branch, %
com.swaraj.taskmanager	30% (3/10)	8% (5/62)	4% (5/106)	100% (0/0)
controller	0% (0/1)	0% (0/5)	0% (0/7)	100% (0/0)
dto	0% (0/2)	0% (0/26)	0% (0/37)	100% (0/0)
entity	100% (1/1)	7% (1/14)	5% (1/20)	100% (0/0)
enums	100% (2/2)	100% (4/4)	100% (4/4)	100% (0/0)
exception	0% (0/2)	0% (0/4)	0% (0/5)	100% (0/0)
repository	100% (0/0)	100% (0/0)	100% (0/0)	100% (0/0)
service	0% (0/1)	0% (0/8)	0% (0/32)	100% (0/0)
TaskmanagerApplication	0% (0/1)	0% (0/1)	0% (0/1)	100% (0/0)

Run Console:

```
16 tests passed 16 tests total, 1 sec 83 ms
C:\Users\swara\jdk\openjdk-24.0.1\bin\java.exe ...
Mockito is currently self-attaching to enable the inline-mock-maker. This will no longer work in future versions.
WARNING: A Java agent has been loaded dynamically (C:\Users\swara\m2\repository\net\bytebuddy\byte-buddy-agent\1.14.10\byte-buddy-agent-1.14.10.jar)
WARNING: If a serviceability tool is in use, please run with -XX:+EnableDynamicAgentLoading to hide this warning.
WARNING: If a serviceability tool is not in use, please run with -Djdk.instrument.traceUsage for more information.
WARNING: Dynamic loading of agents will be disallowed by default in a future release
OpenJDK 64-Bit Server VM warning: Sharing is only supported for boot loader classes because bootstrap classpath has been appended
10:55:47.638 [main] INFO org.springframework.boot.test.context.support.AnnotationConfigContextLoaderUtils
10:55:47.765 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper
:: Spring Boot :: (v3.5.3)
```

2. Code Coverage Report

The screenshot displays an IDE window for a project named 'taskmanager'. The 'Project' view on the left shows the directory structure, including 'resources', 'test', and 'target'. The 'TaskmanagerApplicationTests.java' file is open in the editor, showing a test class with a single test method 'contextLoads()'. The 'Coverage' view on the right provides a detailed report of code coverage for the test run.

Element	Class, %	Method, %	Line, %	Branch, %
com.swaraj.taskmanager	30% (3/10)	8% (5/62)	4% (5/106)	100% (0/0)
controller	0% (0/1)	0% (0/5)	0% (0/7)	100% (0/0)
dto	0% (0/2)	0% (0/26)	0% (0/37)	100% (0/0)
entity	100% (1/1)	7% (1/14)	5% (1/20)	100% (0/0)
enums	100% (2/2)	100% (4/4)	100% (4/4)	100% (0/0)
exception	0% (0/2)	0% (0/4)	0% (0/5)	100% (0/0)
repository	100% (0/0)	100% (0/0)	100% (0/0)	100% (0/0)
service	0% (0/1)	0% (0/8)	0% (0/32)	100% (0/0)
TaskmanagerApplication	0% (0/1)	0% (0/1)	0% (0/1)	100% (0/0)

The 'Cover' view at the bottom shows the test results for 'TaskmanagerApplicationTests (com.swaraj.taskmanager)'. It indicates that 1 test passed, 'contextLoads()', in 284 ms. The output window displays the test execution logs, including the Spring Boot version (v3.5.3) and the test method execution details.

3. Postman Test - API Overview

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Search collections

> Smart_Parking_Lot_API_Collections

> News_Aggregator_API

> News_DEMO

> Task_Manager_API

POST Create Task - Valid

POST Create Task - Invalid

GET Get All Tasks

GET Get Task by Id

GET Get Non-existent Task

PUT Update Task (ID: 1)

DEL Delete Task (ID: 1)

Task Manager API / Create Task - Valid

POST

http://localhost:8080/api/tasks

Send

Params

Authorization

Headers (9)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1 {

2 "title": "Complete Spring Boot Assignment",

3 "description": "Build a task management API",

4 "status": "PENDING",

5 "priority": "HIGH",

6 "dueDate": "2024-02-15T00:00:00"

7 }

Cookies

Headers (5)

Test Results

201 Created

495 ms

332 B

Save Response

JSON

Preview

Visualize

1 {

2 "id": 0,

3 "title": "Complete Spring Boot Assignment",

4 "description": "Build a task management API",

5 "status": "PENDING",

6 "priority": "HIGH",

7 "dueDate": "2024-02-15T00:00:00"

8 }

4. Postman Test - Create Task API

+

Search collections

> Smart_Parking_Lot_API_Collections

> News_Aggregator_API

> News_DEMO

▼ Task Manager API

- POST Create Task - Valid
- POST Create Task - Invalid
- GET Get All Tasks
- GET Get Task by Id
- GET Get Non-existent Task
- PUT Update Task (ID: 1)
- DEL Delete Task (ID: 1)

Task Manager API / Get Task by Id

GET

http://localhost:8080/api/tasks/7

Send

ParamsAuthorizationHeaders (6)BodyScriptsSettings

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

BodyCookiesHeaders (5)Test Results

200 OK • 12 ms • 327 B

Save Response

JSONPreviewVisualize

```
1  {
2    "id": 7,
3    "title": "Complete Spring Boot Assignment",
4    "description": "Build a task management API",
5    "status": "PENDING",
6    "priority": "HIGH",
7    "dueDate": "2024-02-15T00:00:00"
8  }
```

5. Postman Test - Get Task API

Search collections

> Smart_Parking_Lot_API_Collections

> News_Aggregator_API

> News_DEMO

> Task Manager API

POST Create Task - Valid

POST Create Task - Invalid

GET Get All Tasks

GET Get Task by Id

GET Get Non-existent Task

PUT Update Task (ID: 1)

DEL Delete Task (ID: 1)

Task Manager API / Get All Tasks

GET

http://localhost:8080/api/tasks

Send

Params

Authorization

Headers (6)

Body

Scripts

Settings

Cookies

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

Body

Cookies

Headers (5)

Test Results

200 OK

127 ms

988 B

Save Response

JSON

Preview

Visualize

```
1  [
2    {
3      "id": 1,
4      "title": "Updated Spring Boot Assignment",
5      "description": "Update the task API logic",
6      "status": "IN_PROGRESS",
7      "priority": "MEDIUM",
8      "dueDate": "2024-03-01T00:00:00"
9    },
10   {
11     "id": 5,
12     "title": "Complete Spring Boot Assignment",
13     "description": "Build a task management API",
14     "status": "PENDING",
15     "priority": "HIGH",
16     "dueDate": "2024-02-15T00:00:00"
17   },
18   {
19     "id": 6,
20     "title": "Complete Spring Boot Assignment",
21     "description": "Build a task management API",
22     "status": "PENDING",
23     "priority": "HIGH",
24     "dueDate": "2024-02-15T00:00:00"
25   }
26 ]
```

6. Postman Test - Update Task API

Search collections

> Smart_Parking_LoT_API_Collections

> News_Aggregator_API

> News_DEMO

> Task Manager API

POST Create Task - Valid

POST Create Task - Invalid

GET Get All Tasks

GET Get Task by Id

GET Get Non-existent Task

PUT Update Task (ID: 1)

DEL Delete Task (ID: 1)

Task Manager API / Get Non-existent Task

Save

Share

GET

http://localhost:8080/api/tasks/999

Send

Params Authorization Headers (6) Body Scripts Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

This request does not have a body

Body Cookies Headers (5) Test Results

404 Not Found • 10 ms • 198 B • Save Response

Raw Preview Visualize

1 Task not found with id: 999

7. Postman Test - Delete Task API

The screenshot displays the Postman interface for a PUT request to the Task Manager API. The left sidebar shows a collection named 'Task Manager API' with several endpoints. The main panel shows the request configuration for 'Update Task (ID: 1)' at the URL 'http://localhost:8080/api/tasks/7'. The request body is a JSON object with the following fields: 'id' (7), 'title' ('Updated Spring Boot Assignment'), 'description' ('Update the task API logic'), 'status' ('IN_PROGRESS'), 'priority' ('MEDIUM'), and 'dueDate' ('2024-03-01T00:00:00'). The response is a 200 OK status with a 32 ms response time and 330 B of data. The response body is also a JSON object with the same fields as the request body.

Task Manager API / Update Task (ID: 1)

PUT **Send**

Params Authorization Headers (9) **Body** Scripts Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON**

```
1 {
2   "title": "Updated Spring Boot Assignment",
3   "description": "Update the task API logic",
4   "status": "IN_PROGRESS",
5   "priority": "MEDIUM",
6   "dueDate": "2024-03-01T00:00:00"
7 }
```

Body Cookies Headers (5) Test Results

JSON Preview Visualize

```
1 {
2   "id": 7,
3   "title": "Updated Spring Boot Assignment",
4   "description": "Update the task API logic",
5   "status": "IN_PROGRESS",
6   "priority": "MEDIUM",
7   "dueDate": "2024-03-01T00:00:00"
8 }
```

200 OK • 32 ms • 330 B Save Response

8. Postman Test - Error Handling

Search collections

> Smart_Parking_Lot_API_Collections

> News_Aggregator_API

> News_DEMO

> Task Manager API

POST Create Task - Valid

POST Create Task - Invalid

GET Get All Tasks

GET Get Task by Id

GET Get Non-existent Task

PUT Update Task (ID: 1)

DEL Delete Task (ID: 1)

Task Manager API / Delete Task (ID: 1)

Save Share

DELETE http://localhost:8080/api/tasks/7 Send

Params Authorization Headers (6) Body Scripts Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

Body Cookies Headers (3) Test Results 204 No Content 31 ms 112 B Save Response

Raw Preview Visualize

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