Learning Consolidation
Test RESTful Services
at Controller Layer
by Using Testing Tools
(JUnit, Mockito)







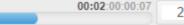


In this sprint, you have learned to:

Implement controller layer testing







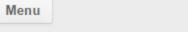
What Is MockMVC?

- MockMvc has been around since Spring 3.2.
- MockMvc is mainly used to test the code of the controller layer.
- It provides a powerful way to mock Spring MVC for testing the MVC web applications.
 Through MockMvc, you can send mock HTTP requests to a controller and test how the controller behaves without running the controller within a server.
- MockMvc testing is needed for:
 - Content negotiation headers: To produce only application/JSON content.
 - Response code: To check if the response code matches the expected one.
 - JSON serialization/deserialization: To validate JSON is deserialized and correctly converted into the response body.

Testing the Controller Layer

- Here, the when method of Mockito is used to mock the service layer and set an expectation.
- In this code, the expectation is that when customerService saveCustomerDetails() method is called with any customer object as an argument, then it will return the saved object.
- By using the mockMvc object, you call "perform" method to make a mock call to the API post method.
- Post takes the API endpoint as an argument. Use the same endpoint that was set in RequestMapping in the controller.
- Here, (.andExpect(status().isCreated()) is a basic check for 201 status.





Quick Check

is used to create and inject a mock for the service class.

- @Mock
- @MockMvc
- @Bean
- @InjectMocks







Quick Check: Solution

is used to create and inject a mock for the service class.

- @Mock
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