I found some example code online, as shown below @Test public void testAddUser() throws Exception { // Create a user object for the request body User newUser = new User("newuser", "newpassword"); // Mock behavior of userRepository.save() to return the saved user when(userRepository.save(any(User.class))).thenReturn(newUser); // Perform a POST request to add a new user mockMvc.perform(post("/api/users") .contentType(MediaType.APPLICATION JSON) .content(objectMapper.writeValueAsString(newUser))) // Convert user object to JSON string .andExpect(status().isCreated()) // Expect HTTP status code 201 Created .andExpect(jsonPath("\$.username").value("newuser")) // Verify username .andExpect(jsonPath("\$.password").value("newpassword")); // Verify password } Another examples that is dealing with get request // Asserting on the Entire Array mockMvc.perform(get("/api/users") .contentType(MediaType.APPLICATION\_JSON)) .andExpect(status().isOk()) .andExpect(jsonPath("\$").isArray()) // Check if it's an array .andExpect(jsonPath("\$", hasSize(3))); // Check if it has 3 elements // Asserting on Individual Objects within the Array mockMvc.perform(get("/api/users") .contentType(MediaType.APPLICATION JSON)) .andExpect(status().isOk()) .andExpect(jsonPath("\$[0].id").value(1)) // Check id of first object .andExpect(jsonPath("\$[0].name").value("Alice")); // Check name of first object

I tried to find a way to do a Junit test for my backend code

This do this I need to import a lot of classes

## Also add dependency to my code, to the xml file

Overall, I need to mock the behavior of the repository class, and use mockMvc.perform to test the API in the controller class.

I did even more research today, and for some reason the above method always return an empty response body, so I decided to change to another method

```
Item item = new Item(11L, "name", 1.1);
when(itemsRepository.findByItemId(11L)).thenReturn(item);
//get the getItem method in the controller
ResponseEntity<?> response = this.itemsController.getItem(11L, "name");
assertEquals(HttpStatus.OK, response.getStatusCode());
assertNotNull(response.getBody());
assertEquals(true, response.getBody().equals(item));
```

I decided to directly call the method in the controller, and check the return of the method.