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ky aap mjh crud operation ka just test cases likh sktte he spring boot main

Haan, main aapko CRUD operation ke liye JUnit test cases likh sakta hu. Neeche diye gaye code snippets mein, ek sample Spring Boot project hai jo MongoDB ke saath CRUD operations karta hai. Aap is project se CRUD operation ke liye JUnit test cases ko samajh sakte hai.

1. Create Operation Test Case:

```
java
@RunWith(SpringRunner.class)
@SpringBootTest
@RunWith(MockitoJUnitRunner.class)
public class UserControllerTest {

    private MockMvc mockMvc;

    @Mock
    private ObjectMapper objectMapper;

    @Mock
    private UserRepository userRepository;

    @Mock
    private WebApplicationContext webApplicationContext;

    @Before
    public void setUp() {
        mockMvc = MockMvcBuilders.webAppContextSetup(webApplicationContext).build();
    }

    @Test
    public void testCreateUser() throws Exception {
        // Create User Request
        User user = new User("testuser", "testmail@test.com", "Test User");
        String requestBody = objectMapper.writeValueAsString(user);

        // Send POST request to create user
        MockResult result = mockMvc.perform(MockRequestBuilder()
            .contentType(MediaType.APPLICATION_JSON)
            .content(requestBody)
            .andExpect(status().isOk())
            .andReturn());

        // Verify User is Created
        String responseBody = result.getResponse().getContentAsString();
        User createdUser = objectMapper.readValue(responseBody, User.class);

        assertEquals(createdUser.getId(), isNotNull());
        assertEquals(createdUser.getUsername(), isNotNull());
        assertEquals(createdUser.getEmail(), isNotNull());
        assertEquals(createdUser.getName(), isNotNull());

        // Verify User is saved in Database
        Optional<User> optionalUser = userRepository.findById(createdUser.getId());
        assertEquals(optionalUser, isPresent());

        User savedUser = optionalUser.get();
        assertEquals(savedUser.getUsername(), isNotNull());
        assertEquals(savedUser.getEmail(), isNotNull());
        assertEquals(savedUser.getName(), isNotNull());
    }
}
```

2. Read Operation Test Case:

```
java
@Test
public void testReadUserById() throws Exception {
    // Create User
    User user = new User("testuser", "testmail@test.com", "Test User");
    userRepository.save(user);

    // Send GET request to get user by id
    MockResult result = mockMvc.perform(MockRequestBuilder()
        .contentType(MediaType.APPLICATION_JSON)
        .content(requestBody)
        .andExpect(status().isOk())
        .andReturn());

    // Verify User is returned
    String responseBody = result.getResponse().getContentAsString();
    User returnedUser = objectMapper.readValue(responseBody, User.class);

    assertEquals(returnedUser.getId(), isNotNull());
    assertEquals(returnedUser.getUsername(), isNotNull());
    assertEquals(returnedUser.getEmail(), isNotNull());
    assertEquals(returnedUser.getName(), isNotNull());
}
```

3. Update Operation Test Case:

```
java
@Test
public void testUpdateUser() throws Exception {
    // Create User
    User user = new User("testuser", "testmail@test.com", "Test User");
    userRepository.save(user);

    // Update User Request
    User updateUser = new User("testuser", "testmail@test.com", "New Test User");
    String requestBody = objectMapper.writeValueAsString(updateUser);

    // Send PUT request to update user
    MockResult result = mockMvc.perform(MockRequestBuilder()
        .contentType(MediaType.APPLICATION_JSON)
        .content(requestBody)
        .andExpect(status().isOk())
        .andReturn());

    // Verify User is Updated
    String responseBody = result.getResponse().getContentAsString();
    User returnedUser = objectMapper.readValue(responseBody, User.class);

    assertEquals(returnedUser.getId(), isNotNull());
    assertEquals(returnedUser.getUsername(), isNotNull());
    assertEquals(returnedUser.getEmail(), isNotNull());
    assertEquals(returnedUser.getName(), isNotNull());
}
```

continue

@NotNull(updatedUser.getEmail());
assertEquals(returnedUser.getUsername(), isNotNull());

```
java
// Verify User is updated in Database
Optional<User> optionalUser = userRepository.findById(user.getId());
assertEquals(optionalUser, isPresent());

User savedUser = optionalUser.get();
assertEquals(savedUser.getUsername(), isNotNull());
assertEquals(savedUser.getEmail(), isNotNull());
assertEquals(savedUser.getName(), isNotNull());
}
```

```
java
// Delete Operation Test Case:
@Test
public void testDeleteUser() throws Exception {
    // Create User
    User user = new User("testuser", "testmail@test.com", "Test User");
    userRepository.save(user);

    // Send DELETE request to delete user
    MockResult result = mockMvc.perform(MockRequestBuilder()
        .contentType(MediaType.APPLICATION_JSON)
        .content(requestBody)
        .andExpect(status().isOk())
        .andReturn());

    // Verify User is deleted from Database
    Optional<User> optionalUser = userRepository.findById(user.getId());
    assertEquals(optionalUser, isAbsent());
}
```

Yeh code snippets sample JUnit test cases hai, jo MongoDB ke saath CRUD operations karte hai. Spring Boot mein likhe gaye hai, iska upyog karke aap apna project ke liye JUnit test cases likh sakte hai.