API Testing

API TESTING is a software testing type that validates Application Programming Interfaces. We will explain the API testing code of our project SHOPIZER step by step.

**Line 34: PersistableTaxClass taxClass = new PersistableTaxClass();**

First, the object of the tax class is created by clicking on “Create Tax Class” in UI.

**Line 35: taxClass.setCode("TESTTX");**

**Line 36: taxClass.setName("Test tax class");**

In this code, the values are getting that were entered by the user in the SHOPIZER app and the return values are string data types. String data types are set by a function called set data and name and these parameters are set in the object that was created before.

**Line 38: final HttpEntity<PersistableTaxClass> taxClassEntity = new HttpEntity<>(taxClass, getHeader());**

In this, the creation of a collection of sets in which we store the collection of HTTP-related Objects.

**Line 39: final ResponseEntity<Entity> response = testRestTemplate.postForEntity(String.format("/api/v1/private/tax/class/"), taxClassEntity, Entity.class);**

In this, requesting the SHOPIZER app for API.

**Line 40: Entity e = response.getBody();**

In this, getting a response that I was requested to the SHOPIZER app of API in variable e.

**Line 43: assertNotNull(e.getId());**

In this, check the code that the response is empty or not.

**Line 44: assertTrue(e.getId() > 0);**

In this, check that the values written must be greater than zero.

**Line 47: final HttpEntity<String> httpEntity = new HttpEntity<>(getHeader());**

Now, we have to create another collection of HTTP entities.

**Line 50: httpEntity, EntityExists.class);**

|  |
| --- |
| **final ResponseEntity<EntityExists> exists = testRestTemplate.exchange(String.format("/api/v1/private/tax/class/unique?code=" + taxClass.getCode()), HttpMethod.GET, httpEntity, EntityExists.class);**  In this, the response is getting that we have created a tax class before.  **Line 53: assertTrue(exists.getBody().isExists());**  In this, we are getting the tax class response and checking whether the tax class is already existed or not by ID. |
|  |