

O C T O B E R 2 0 2 3



Kampus
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INDONESIA JAYA

alterra
academy

MINI PROJECT

Mia Aprilia Satya - Quality Engineer (QE)

Alterra Academy

MSIB BATCH 5



TABLE OF CONTENT

01. Background Project

02. MVP (Minimum Viable Product)

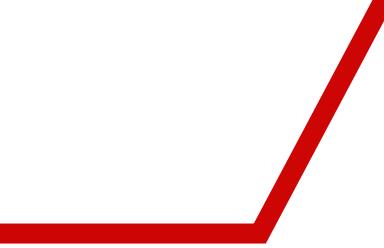
03. Tools Used

04. Program Structure

05. Product Success

BACKGROUND PROJECT

Alta Shop merupakan *platform e-commerce* yang meliputi *API*, *website* dan *mobile*. Alta Shop ini perlu dilakukan pengujian untuk memastikan dan menjaga kualitas bahwa semua fungsionalitas pada aplikasi Alta Shop berjalan dengan baik dan layak digunakan oleh *user*. Pada mini project kali ini mahasiswa kelas QE diberikan tugas sesuai *requirements* yang berlaku, dalam hal tersebut adalah menguji kualitas dari aplikasi Alta Shop yang dikembangkan oleh **Alterra Academy** guna mengukur pemahaman dan memenuhi tugas mini project.



MVP

(MINIMUM VIABLE PRODUCT)

Test Case & Test Scenario Formatting

01. Key Features

02. Test Case ID

03. Scenario Name

04. Scenario Type

05. Test Priority

06. Test Case Description

07. Pre-Condition

08. Test Steps

09. Test Data

10. Expected Result

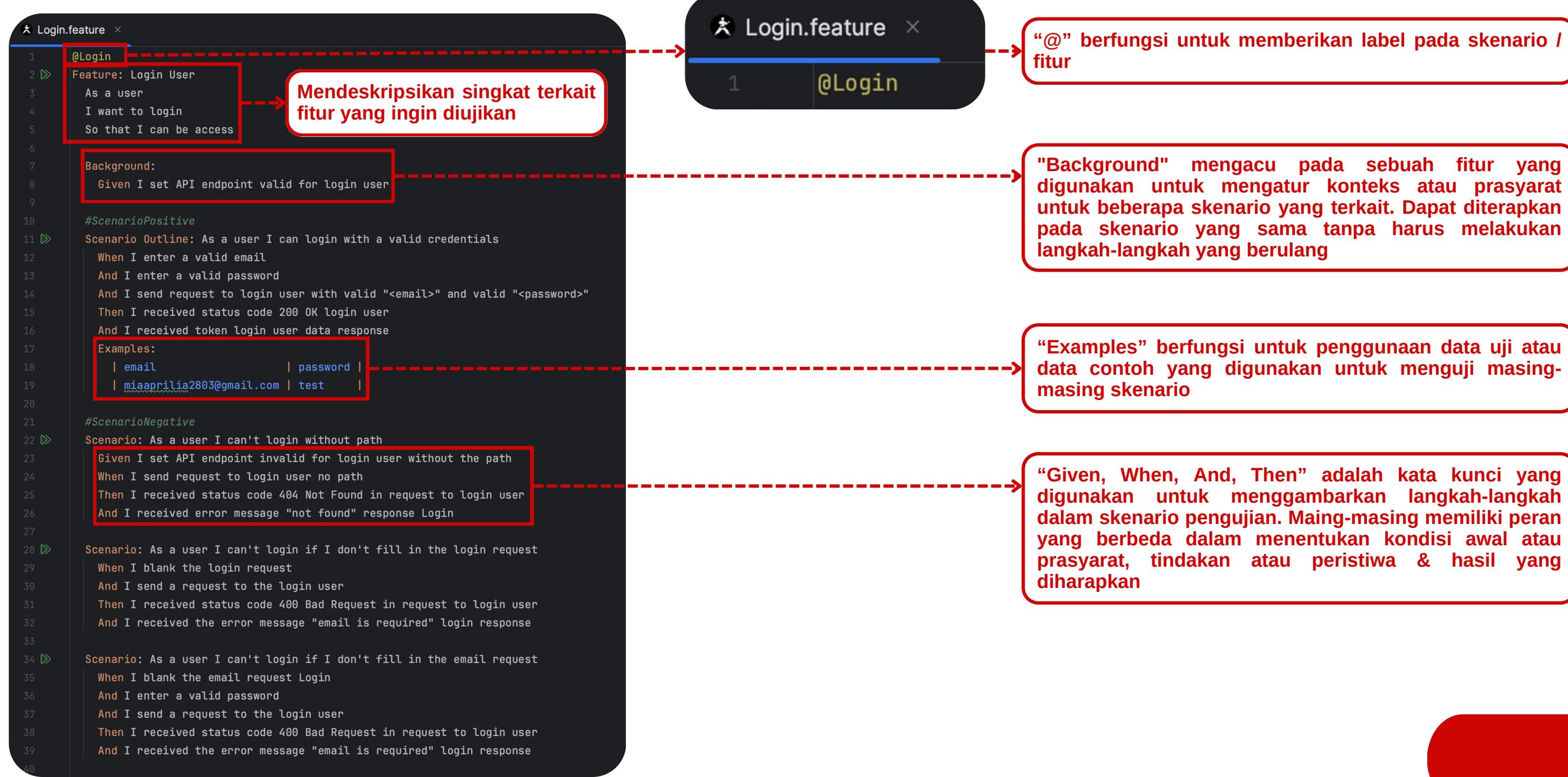
12. Actual Result

13. Result

#	Key Features	Test Case ID	Scenario Name	Scenario Type	Test Priority	Test Case Description	Pre-Condition	Test Steps	Test Data	Expected Result	Actual Result	Result
1	Login Feature	ASAI-1	As a user I can login with a valid credentials	Positive	Medium	Verify if the user can login using valid credentials	I set the endpoint on the login page	1. I enter valid email 2. I enter valid password 3. I tap login button	Environment: https://alta-shop.vercel.app/auth/login Email: miaaprilia2803@gmail.com Password: test	1. User redirect to home page	1. User redirect to home page	Passed
2	Login Feature	ASAI-2	As a user I can't login if I don't fill in the login request	Negative	Medium	Verify if the user can't login using a blank fill login request	I set the endpoint on the login page	1. I blank form login 2. I tap login button	Environment: https://alta-shop.vercel.app/auth/login	1. I see error message appear "email is required"	1. I see error message appear "email is required"	Passed
3	Login Feature	ASAI-3	As a user I can't login if I don't fill in the email request	Negative	Medium	Verify if the user can't login using a blank fill email request	I set the endpoint on the login page	1. I blank email 2. I enter valid password 3. I tap login button	Environment: https://alta-shop.vercel.app/auth/login	1. I see error message appear "email is required"	1. I see error message appear "email is required"	Passed
4	Login Feature	ASAI-4	As a user I can't login if I don't fill in the password request	Negative	Medium	Verify if the user can't login using a blank fill password request	I set the endpoint on the login page	1. I enter valid email 2. I blank password 3. I tap login button	Environment: https://alta-shop.vercel.app/auth/login	1. I see error message appear "password is required"	1. I see error message appear "password is required"	Passed
5	Login Feature	ASAI-5	As a user I can't login with an invalid email	Negative	Medium	Verify if the user can't login using invalid email	I set the endpoint on the login page	1. I enter invalid email 2. I enter valid password 3. I tap login button	Environment: https://alta-shop.vercel.app/auth/login Email: miaaprilia28@gmail.com Password: test	1. I see error message appear "record not found"	1. I see error message appear "record not found"	Passed
6	Login Feature	ASAI-6	As a user I can't login with an invalid password	Negative	Medium	Verify if the user can't login using invalid password	I set the endpoint on the login page	1. I enter valid email 2. I enter invalid password 3. I tap login button	Environment: https://alta-shop.vercel.app/auth/login Email: miaaprilia2803@gmail.com Password: 123	1. I see error message appear "email or password is invalid" 1. I see error message appear "email or password is invalid"	1. I see error message appear "email or password is invalid"	Passed

**ASA-NN
ASW-NN
ASM-NN**

Test Case & Test Scenario Formatting



Test Case & Test Scenario Formating

API PLATFORM

```

1 package starter.stepdefinitions.authentication;
2
3 import ...
4
5 public class LoginSteps {
6     @Steps
7     Login login;
8
9     @Given("I set API endpoint valid for login user")
10    public void setAPIEndpointValidLoginUser() { login.setAPIEndpointValidLoginUser(); }
11
12    @When("I enter a valid email")
13    public void enterValidEmail() { login.enterValidEmail(); }
14
15    @And("I enter a valid password")
16    public void enterValidPassword() { login.enterValidPassword(); }
17
18    @And("I send request to login user with valid {string} and valid {string}")
19    public void sendRequestValidLoginUser(String email, String password) { login.sendRequestValidLoginUser(email, password); }
20
21    @Then("I received status code 200 OK login user")
22    public void receivedStatusCode200OKLoginUser() { login.receivedStatusCode200OKLoginUser(); }
23
24    @And("I received token login user data response")
25    public void receivedTokenLoginUserDataResponse() { login.receivedTokenLoginUserDataResponse(); }
26
27    @Given("I set API endpoint invalid for login user without the path")
28    public void setAPIEndpointInvalidLoginUser() { login.setAPIEndpointInvalidLoginUser(); }
29
30    @When("I send request to login user no path")
31    public void sendRequestLoginUserNoPath() { login.sendRequestLoginUserNoPath(); }
32
33    @Then("I received status code 404 Not Found in request to login user")
34    public void receivedStatusCode404NotFoundInRequestLoginUser() { login.receivedStatusCode404NotFoundInRequestLoginUser(); }
35
36    @And("I received error message \"not found\" response Login")
37    public void receivedErrorMessageNotFoundLogin() { login.receivedErrorMessageNotFoundLogin(); }
38
39
40
41
42
43
44
45
46
47
48
49
50
51

```

WEB PLATFORM

“openUrl” digunakan untuk membuka (mengakses) suatu URL (Uniform Resource Locator) di dalam sebuah program.

Nilai Parameter

Pernyataan
“Assertions.assertTrue()“ sebuah pernyataan assertion yang digunakan untuk memeriksa apakah ekspresi di dalamnya menghasilkan nilai true atau false

```

11
12 public class LoginSteps {
13     16 usages
14     @Steps
15     LoginPage loginPage;
16
17     1 usage
18     @Steps
19     ProductPage productPage;
20
21     @Given("I set the endpoint on the login page")
22     public void setEndpointOnTheLoginPage() {
23         loginPage.openUrl(absoluteUrl: "https://alta-shop.vercel.app/auth/login");
24         loginPage.validateOnLoginPage();
25     }
26
27     // Scenario Positive
28     @When("I enter valid email")
29     public void enterValidEmail() { loginPage.inputEmail("miaaprilia2803@gmail.com"); }
30
31     @And("I enter valid password")
32     public void enterValidPassword() { loginPage.inputPassword("test"); }
33
34     @And("I tap login button")
35     public void tapLoginButton() { loginPage.tapLoginButton(); }
36
37     @Then("User redirect to home page")
38     public void userRedirectHomepage() {
39         Assertions.assertTrue(productPage.validateOnLoginPage());
40     }
41
42     // Scenario Negative
43     @When("I blank form login")
44     public void blankFormLogin() { loginPage.inputEmail(""); }
45
46     @Then("I see error message appear 'email is required'")
47     public void seeErrorMessageAppearEmailIsRequiredInLoginPage() {
48         Assertions.assertTrue(loginPage.validateOnLoginPage());
49     }
50
51     @When("I blank email in login page")
52     public void blankEmailInLoginPage() { loginPage.inputEmail(""); }
53
54     @When("I blank password in login")
55     public void blankPasswordInLoginPage() { loginPage.inputPassword(""); }
56
57
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99

```

Test Case & Test Scenario Formating

API PLATFORM

The screenshot shows a Java code editor with a file named `Login.java`. The code is annotated with several callouts:

- Class Name**: Points to the class definition `public class Login {`.
- Deklarasi variable url**: Points to the declaration of a static final string `private static final String url = "https://altashop-api.fly.dev/api";`.
- A large red box highlights the entire body of the class, containing steps like `@Step("I set API endpoint valid for login user")` and `public String setAPIEndpointValidLoginUser() { return url + "/auth/login"; }`.
- Another red box highlights the `restAssuredThat(response -> response.statusCode(200));` assertion at the bottom.
- At the very bottom, another red box highlights the `JsonSchemaHelper helper = new JsonSchemaHelper();` and schema validation code.

WEB PLATFORM

The screenshot shows a Java code editor with a file named `LoginPage.java`. The code is annotated with several callouts:

- "XPath" berguna untuk memberikan alamat lengkap dari elemen tersebut dalam struktur dokumen HTML.**: Points to the `By.xpath(xpathExpression: "/html/body/div/div/main/div/div[2]/form/div[1]/div/div/input");` locator.
- "Public Boolean"**: Points to the `public boolean validateOnLoginPage() { return $(loginButton()).isDisplayed(); }` method.
- "isDisplayed()"**: Points to the `$(loginButton()).isDisplayed();` call within the `validateOnLoginPage()` method.
- "Public Void"**: Points to the `public void inputForm(String email, String password) { $(emailField()).type(email); $(passwordField()).type(password); }` method.
- "Public Void"**: Points to the `public void inputEmail(String email) { $(emailField()).type(email); }` method.
- "Public Void"**: Points to the `public void inputPassword(String password) { $(passwordField()).type(password); }` method.



Test Management Tools



Google Sheets

Tracking Management Tools



Tools For Web UI Testing



Tools For RESTful API Testing



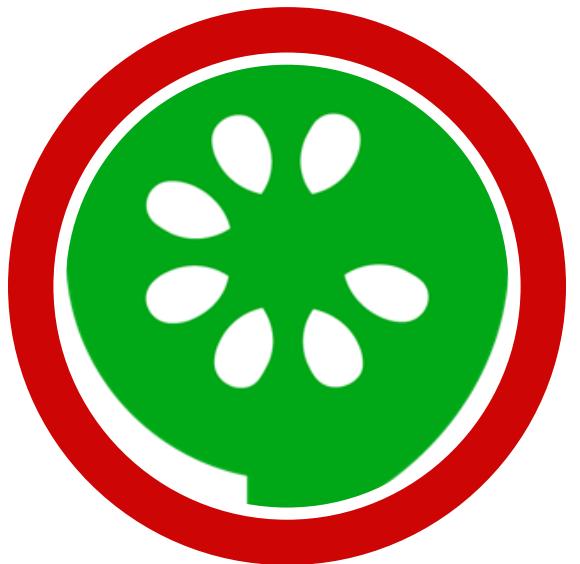
REST-Assured
GET, POST, PUT, PATCH, DELETE

Tools For Mobile Testing

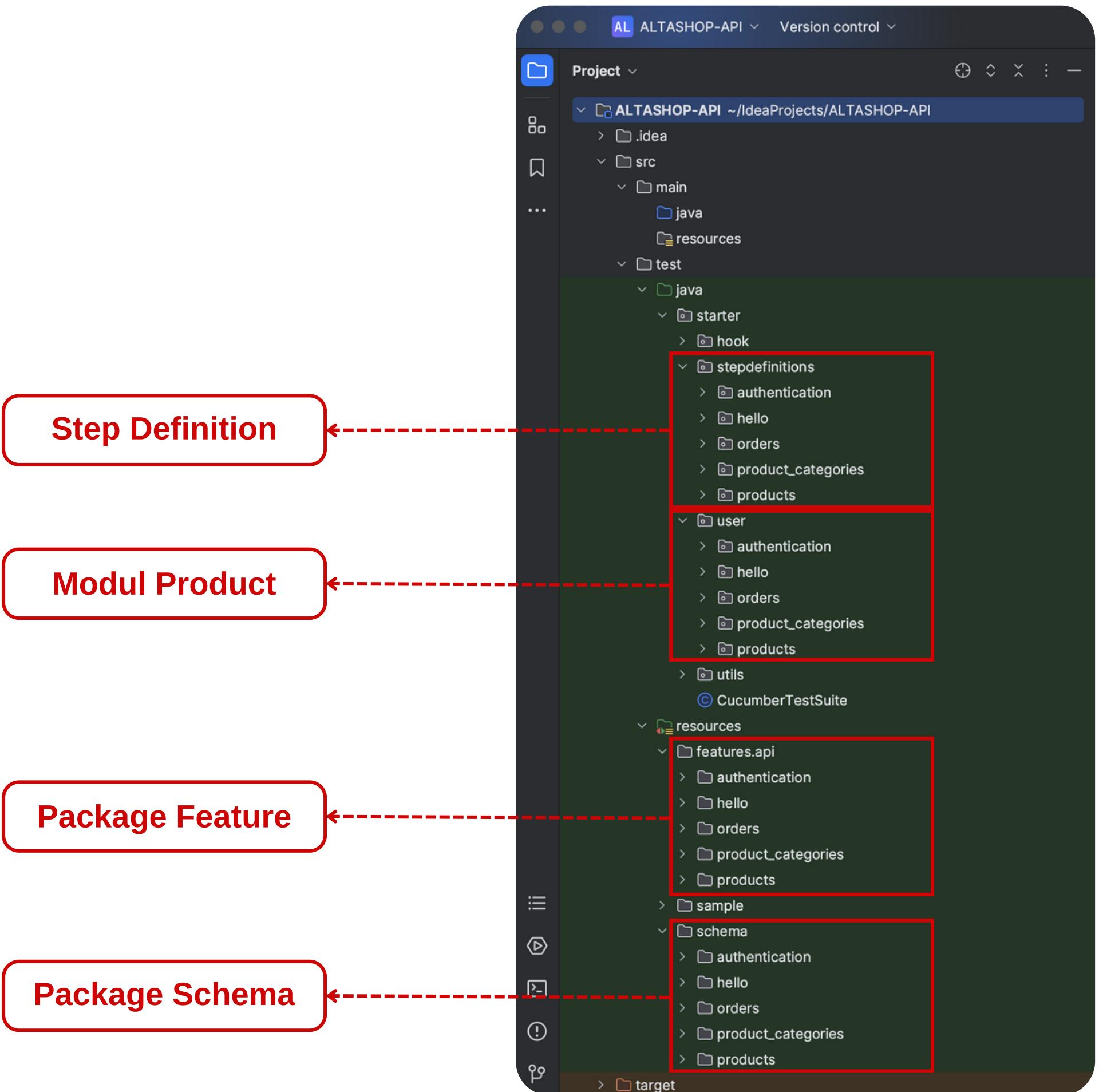


TOOLS USED

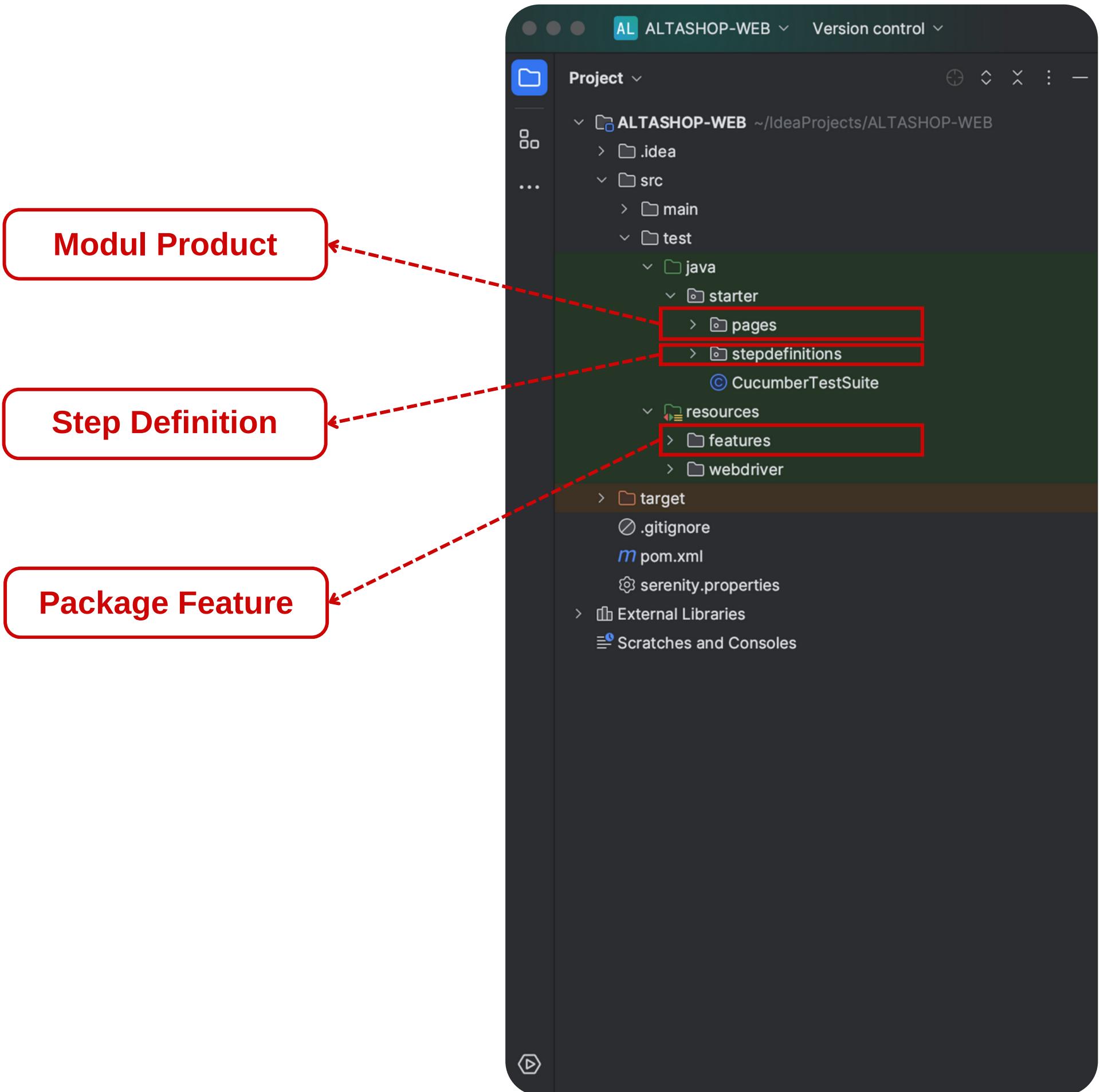
OTHER TOOLS USED



PROGRAM STRUCTURE

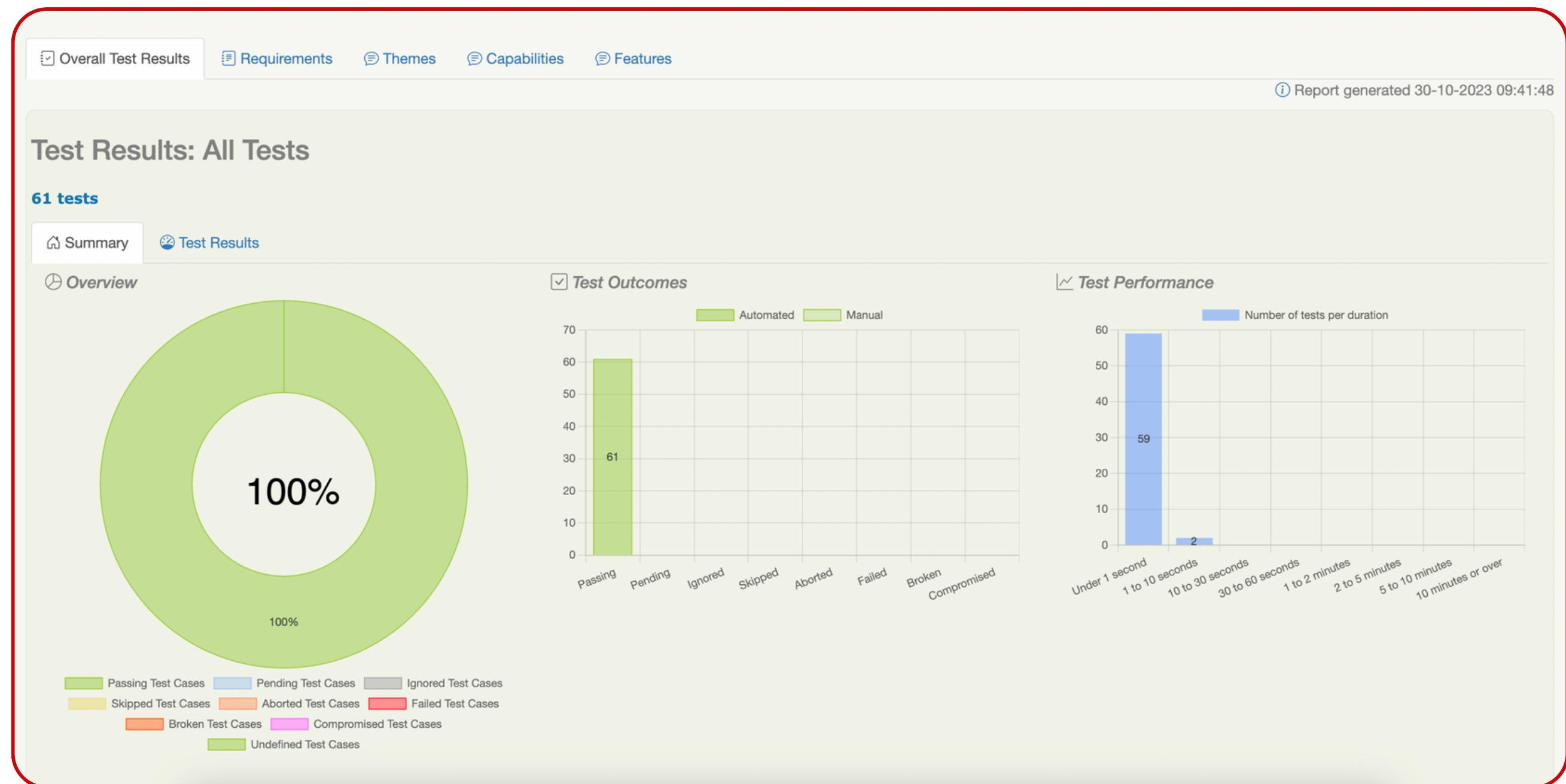


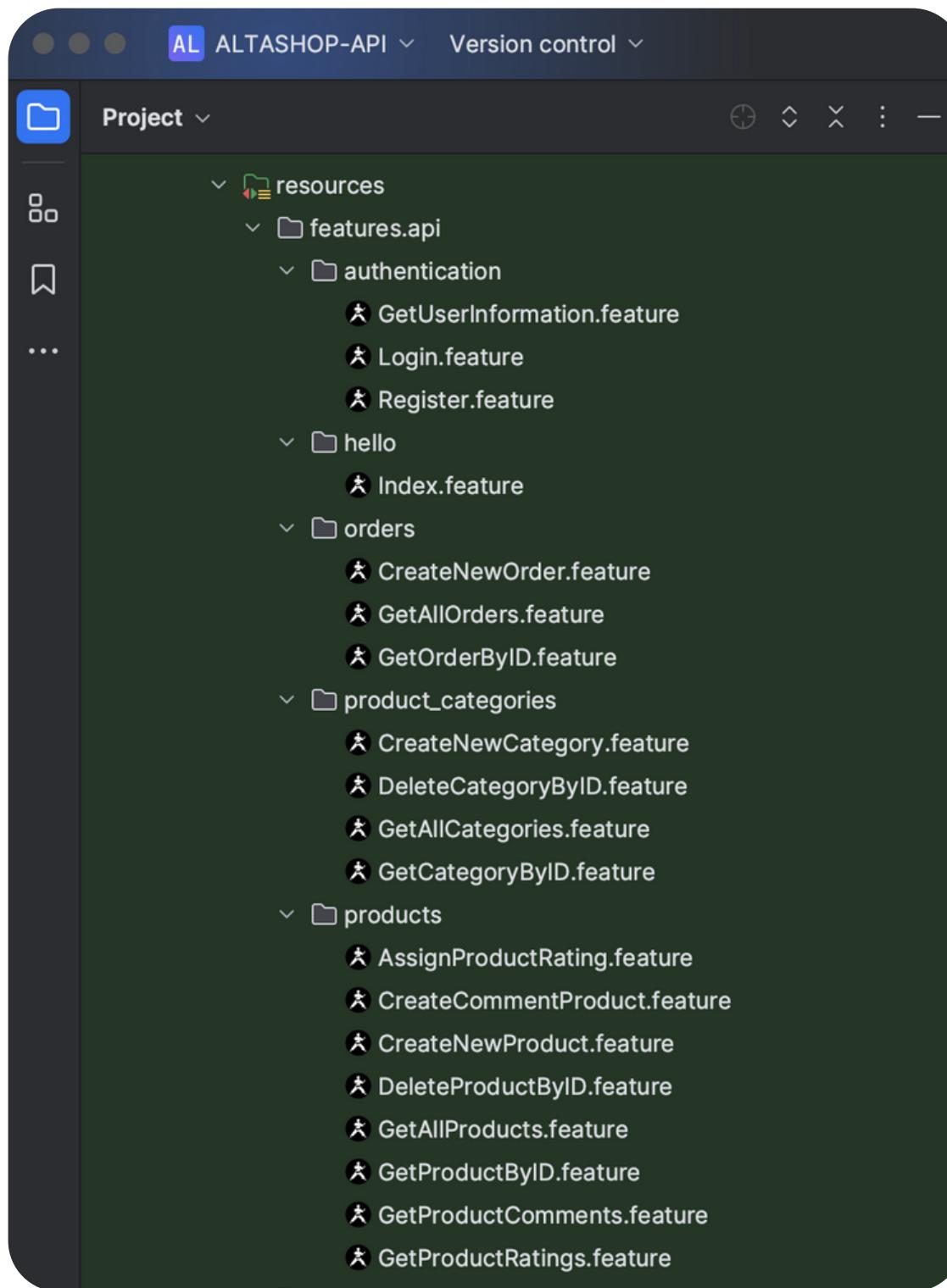
API AUTOMATION TESTING



WEB AUTOMATION TESTING

PRODUCT SUCCESS





AUTHENTICATION FEATURE

GET - Get User Information
POST - Register
POST - Login

HELLO FEATURE

GET - Index

ORDERS FEATURE

GET - Get All Orders
GET - Get Orders By ID
POST - Create New Order

PRODUCT CATEGORIES FEATURE

GET - Get Category By ID
GET - Get All Categories
POST - Create New Category
DEL - Delete Category By ID

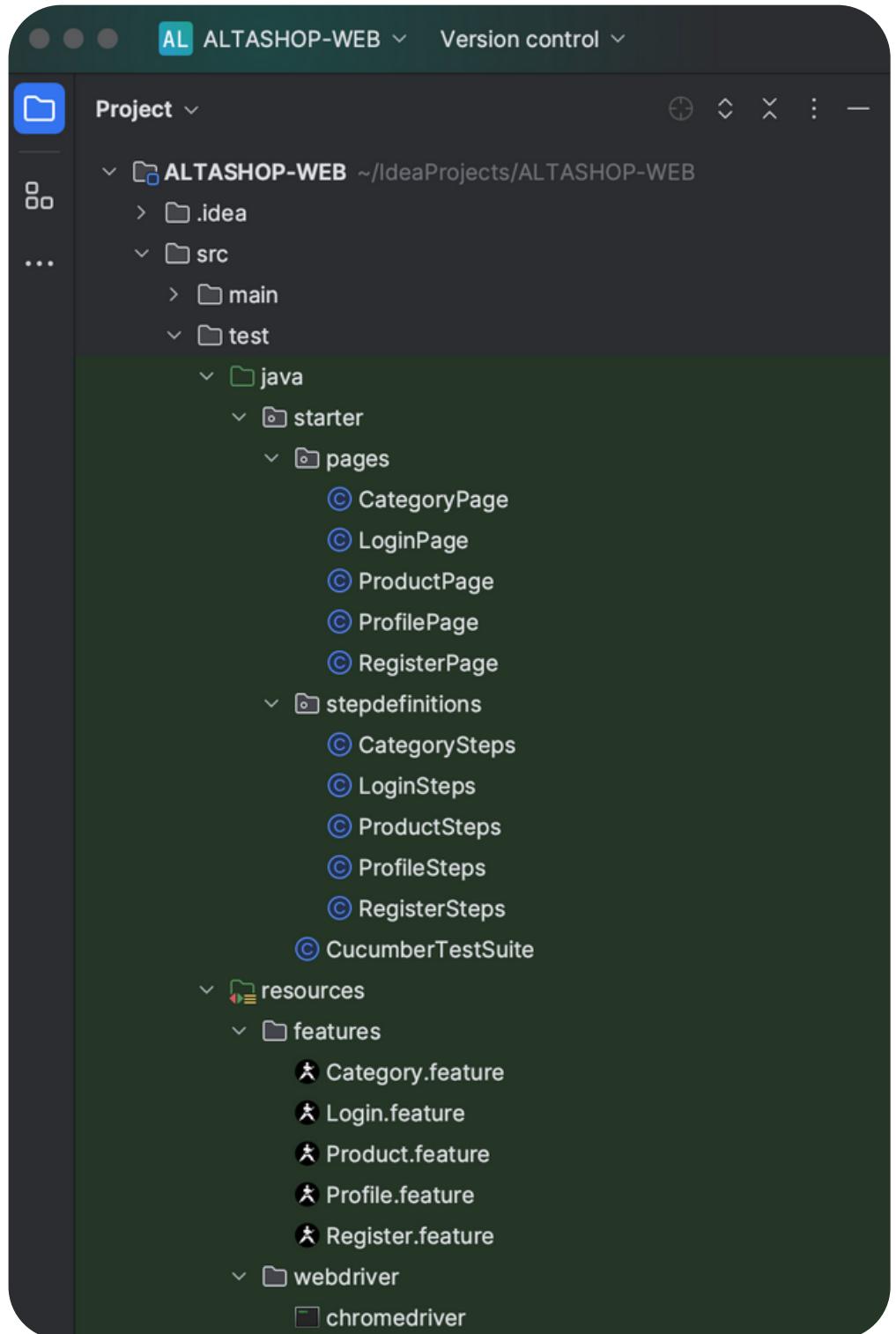
PRODUCT FEATURE

GET - Get Product By ID
GET - Get All Products
GET - Get Product Ratings
GET - Get Product Comments
POST - Create New Product
POST - Assign Product Rating
POST - Create Comment Product
DEL - Delete Product By ID

TESTING FEATURE







REGISTER FEATURE

Success Register
Failed Register

LOGIN FEATURE

Success Login
Failed Login

PRODUCT FEATURE

See Detail Product
Create Rating Product
Add Product to Cart

CATEGORY FEATURE

Success Select Category
Failed Select Category

PROFILE FEATURE

See Transactions
Logout



The screenshot shows a mobile application interface for 'ALTA SHOP MOBILE'. The main screen is titled 'Test runs' and displays a list of completed test runs. The table has columns for TITLE, AUTHOR, ENVIRONMENT, TIME, and STATUS.

TITLE	AUTHOR	ENVIRONMENT	TIME	STATUS
Test Run for Remove Item Features Started 4 days ago	Mia Aprilia Satya	Production	1s 418ms	1
Test Run for Add New Item Features Started 4 days ago	Mia Aprilia Satya	Production	6s 280ms	5

The sidebar on the left contains the following sections:

- TESTS**: Repository, Shared Steps, Review
- EXECUTION**: Test Plans, Test Runs, Configurations, Environments
- ISSUES**: Defects, Requirements, Milestones
- Settings

At the bottom of the sidebar, there is a link to 'Collapse submenu'.

TESTING FEATURE

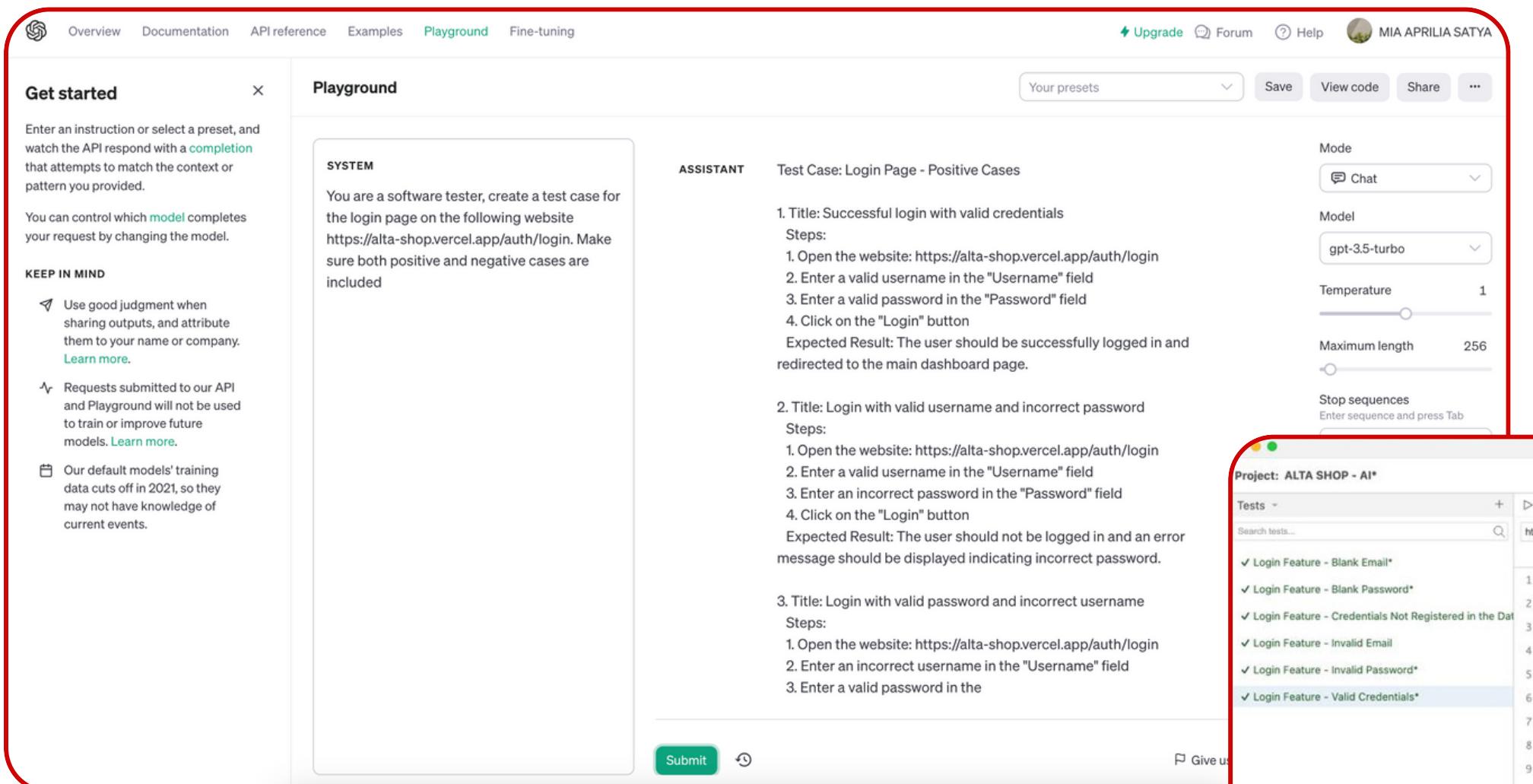
The screenshot shows the ALTA SHOP MOBILE testing interface. The top navigation bar includes 'Projects', 'Workspace', 'Dashboards', 'Queries', 'Apps', a notification bell (with 5 notifications), a message icon, and a user profile. The main title is 'ASM repository' with '6 cases (6) | 2 suites (2)'. On the left, a sidebar lists categories: TESTS (Repository, Shared Steps, Review), EXECUTION (Test Plans, Test Runs, Configurations, Environments), and ISSUES (Defects, Requirements, Milestones). A 'Settings' option is at the bottom. The main content area displays 'Suites' for 'Add New Item Feature' (5 cases) and 'Remove Item Feature' (1 case). The 'Add New Item Feature' section contains cases: ASM-1 (As a user I can add new item by inputting all field), ASM-2 (As a user I can't add new items if the name column is left blank), ASM-3 (As a user I want to make sure that I can't enter a name column longer than 50 characters), ASM-4 (As a user I can't add new items if the set quantity is 0), and ASM-5 (As a user I want to make sure that I can reset the input that I previously entered in the add item form). The 'Remove Item Feature' section contains case ASM-6 (As a user I want to make sure that I can remove item that has been added).

ADD NEW ITEM FEATURE

Success Add New Item
Failed Add New item

REMOVE ITEM FEATURE

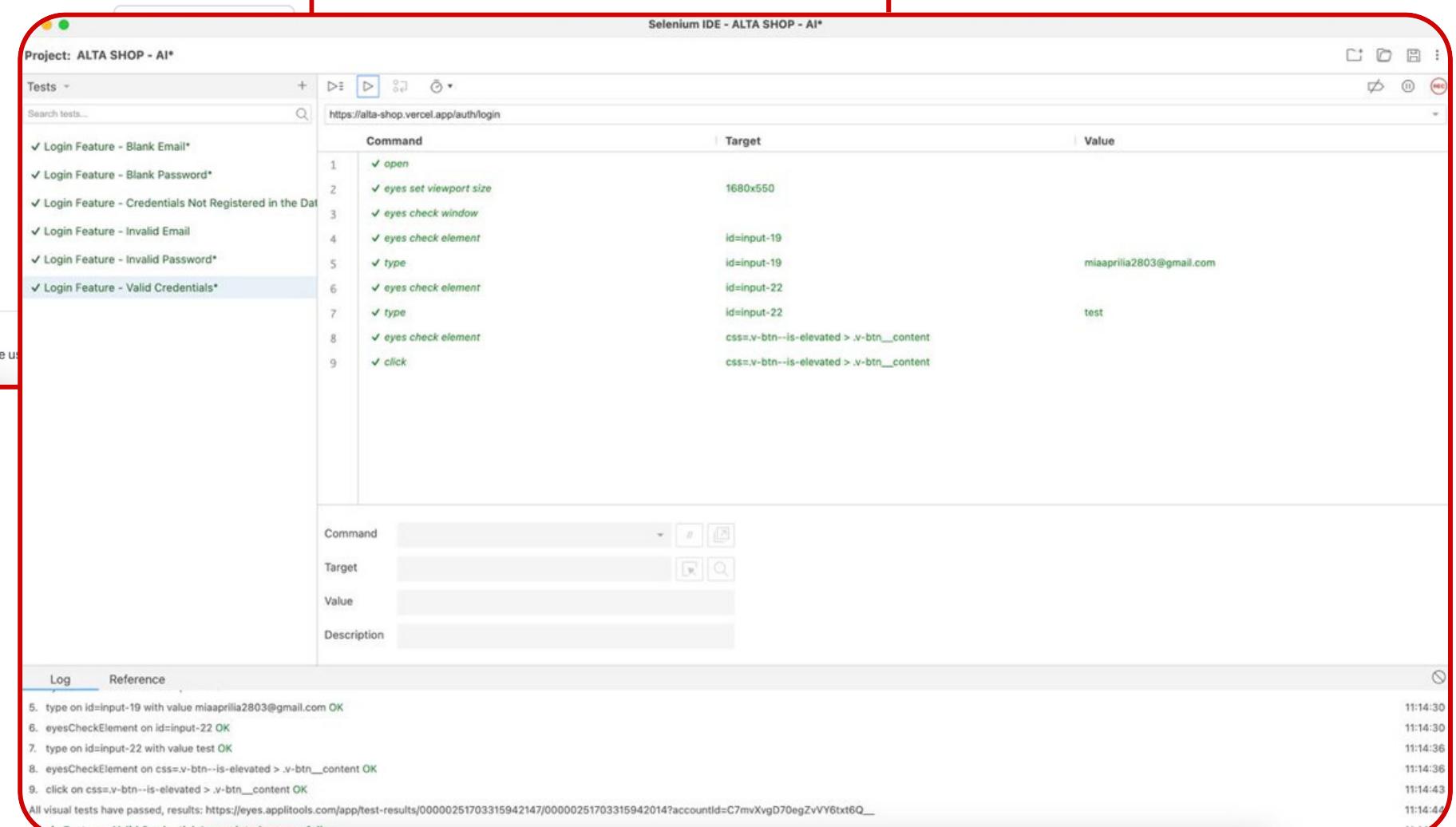
Success Remove Item



APPLITOOLS

APPLITOOLS FOR

SELENIUM IDE



OPENAI PLAYGROUND

TESTING FEATURE



Project: ALTA SHOP - AI

Tests ▾ +

Search tests...

- ✓ Login Feature - Blank Email
- ✓ Login Feature - Blank Password
- ✓ Login Feature - Credentials Not Registered in the Da
- ✓ Login Feature - Invalid Email
- ✓ Login Feature - Invalid Password
- ✓ Login Feature - Valid Credentials

- Login Feature - Credentials Not Registered in the Database
3 Nov 2023 at 11:16 AM (1 passed)
Passed
- Login Feature - Blank Password
3 Nov 2023 at 11:15 AM (1 passed)
Passed
- Login Feature - Blank Email
3 Nov 2023 at 11:15 AM (1 passed)
Passed
- Login Feature - Valid Credentials
3 Nov 2023 at 11:14 AM (1 passed)
Passed
- Login Feature - Invalid Password
3 Nov 2023 at 11:13 AM (1 passed)
Passed
- Login Feature - Invalid Email
3 Nov 2023 at 11:12 AM (1 passed)
Passed

LOGIN FEATURE - WEB PLATFORM

Success Login
Failed Login

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

Pengujian fungsionalitas dari web dan api ditemukan 4 bugs dengan *priority 1 high* & 3 *medium* dari 2 *platform* yang diuji, sedangkan pengujian pada *platform mobile* tidak ditemukan bugs saat proses pengujian.

PLATFORM WEB TESTING

Test runs				
TITLE	AUTHOR	ENVIRONMENT	TIME	STATUS
Test Run for Profile Feature Started 1 hour ago	Mia Aprilia Satya	Profile Feature	5s 810ms	<div style="width: 400px;"><div style="width: 4px; background-color: green;"></div><div style="width: 396px; background-color: red;"></div></div> 4
Test Run for Category Feature Started 1 hour ago	Mia Aprilia Satya	Category Feature	12m 31s	<div style="width: 1200px;"><div style="width: 1px; background-color: green;"></div><div style="width: 1199px; background-color: red;"></div></div> 1
Test Run for Product Feature Started 2 hours ago	Mia Aprilia Satya	Product Feature	24s 523ms	<div style="width: 240px;"><div style="width: 5px; background-color: green;"></div><div style="width: 235px; background-color: red;"></div></div> 5
Test Run for Login Feature Started 2 hours ago	Mia Aprilia Satya	Login Feature	33s 58ms	<div style="width: 330px;"><div style="width: 7px; background-color: green;"></div><div style="width: 323px; background-color: red;"></div></div> 7
Test Run for Register Feature Started 2 hours ago	Mia Aprilia Satya	Register Feature	1m 3s	<div style="width: 60px;"><div style="width: 5px; background-color: green;"></div><div style="width: 55px; background-color: red;"></div></div> 5

Defects					
Create new defect		Search for defects	Status: Open	+ Add filter	Export
Defect					
As a user I can select products based on the categories that contain product items D-3 - created 1 hour ago	Mia Aprilia Satya	Mia Aprilia Satya	Normal	Category	...
As a user I can be rating product in details page D-2 - created 2 hours ago	Mia Aprilia Satya	Mia Aprilia Satya	Major	Product	...
As a new user I can't register if the email request format is not appropriate (e.g.: missing @) D-1 - created 2 hours ago	Mia Aprilia Satya	Mia Aprilia Satya	Normal	Register	...

PLATFORM API TESTING

Test runs				
TITLE	AUTHOR	ENVIRONMENT	TIME	STATUS
Test Run for Hello Features Started 5 days ago	Mia Aprilia Satya	Hello Features	2s 297ms	<div style="width: 20px;"><div style="width: 2px; background-color: green;"></div><div style="width: 18px; background-color: red;"></div></div> 2
Test Run for Order Features Started 5 days ago	Mia Aprilia Satya	Order Features	9s 456ms	<div style="width: 90px;"><div style="width: 8px; background-color: green;"></div><div style="width: 82px; background-color: red;"></div></div> 8
Test Run for Product Category Features Started 5 days ago	Mia Aprilia Satya	Product Category Feature	11s 638ms	<div style="width: 110px;"><div style="width: 10px; background-color: green;"></div><div style="width: 100px; background-color: red;"></div></div> 10
Test Run for Product Features Started 5 days ago	Mia Aprilia Satya	Product Features	26s 749ms	<div style="width: 260px;"><div style="width: 22px; background-color: green;"></div><div style="width: 238px; background-color: red;"></div></div> 22
Test Run for Authentication Features Started 5 days ago	Mia Aprilia Satya	Authentication Features	46s 707ms	<div style="width: 460px;"><div style="width: 18px; background-color: green;"></div><div style="width: 442px; background-color: red;"></div></div> 18

Defects					
Create new defect		Search for defects	Status: Open	+ Add filter	Export
Defect					
As a new user I can't register if the email request format is not appropriate (e.g.: missing @) D-1 - created 5 days ago	Mia Aprilia Satya	Mia Aprilia Satya	Normal	Authentication	...

MIA APRILIA SATYA



THANK YOU