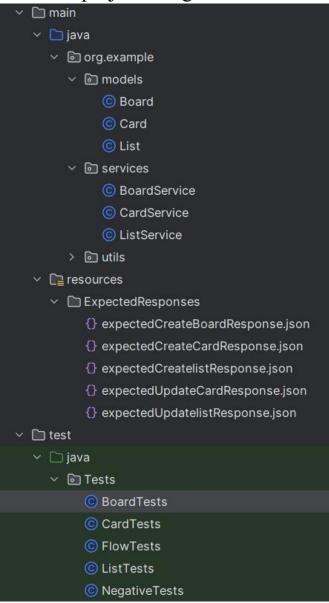
Automated API Testing of Trello API using Rest Assured

This project aims to design, execute, and automate comprehensive API tests for Trello using Rest Assured. By setting up a structured Java-based testing framework and utilizing TestNG for automation, we ensure the reliability and functionality of Trello's API endpoints.

Environment Setup:

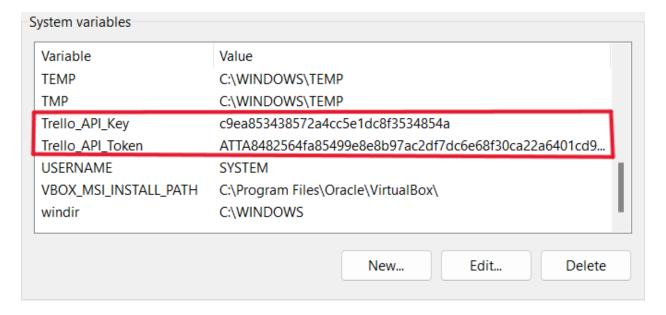
- We used Java project using maven as a build tool



- Added the necessary dependencies for rest assured, TestNG, Hamcrest and Allure in pom.xml file.

> Framework Setup:

- We configured our system environment variables and put our API_key and API_token so anyone who has its own api key and token configured in his system environment variables can run the project successfully.
- Here is a screenshot for our API key and token.



- Here is a screenshot of how we implemented this in our code.

```
public class BoardService { 6 usages

private final RequestSpecification reqSpec; 5 usages
private static final String API_Token = System.getenv( name: "Trello_API_Token"); 2 usages
private static final String API_KEY = System.getenv( name: "Trello_API_Key"); 2 usages

public BoardService() { 2 usages

if (API_Token == null || API_KEY == null) {
    throw new IllegalArgumentException("Environment variables API_Token or API_KEY are not set");
}
this.reqSpec = given()
    .baseUri(s: "https://api.trello.com/1")
    .queryParam(s: "key", API_KEY)
    .queryParam(s: "token", API_Token)
    .contentType(ContentType.JSON);
}
```

Test Case Design:

We have done different test scenarios to cover

• Board management:

• Card management:

• Lists management:

• Negative tests with invalid inputs:

```
@Test
public void createBoardWithoutName() {
    Board board = new Board();
    Response response = boardService.createBoard(board);
    response.then().statusCode( i: 400);}
@Test
public void deleteNonExistingCardTest() {...}
@Test(priority = 6)
public void deleteNonExistingListTest() {...}
@Test
public void updateNonExistentBoard() {...}
@Test
public void createCardWithInvalidListIdTest() {...}
@Test
public void createListWithInvalidListIdTest() {...}
```

> Automation Testing:

We have made a testng.xml file to use as a Test Runner so we can run the test as configured in the file.

► Generating Reports:

We used allure to generate an HTML report to see the test results in details.

