GENERATING ACCESS TOKEN THEN USING IT WITH API

1

REQUEST

POST → https://library2.cybertekschool.com/rest/v1/login

	KEY	VALUE
☑	email	teacher30@library
☑	password	Sdet2022*

RESPONSE

```
{
    "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9
    .eyJ1c2VyIjp7ImlkIjoiMTYwIiwiZnVsbF9uYW1lIjoiVGVzdCBTdHVkZW50IDMwIiwiZW1haWwiOiJzdHVkZW50MzBAbGlicmFyeSISInVzZXJfZ3JvdXBfaWQiOiIzIn0sImlhdCI
    6MTYzNTk4MTAyMiwiZXhwIjoxNjM4NTczMDIyfQ.yNsv1Lj3bDcAZO5rO4YLc2PbS-BvphNMMMa-xPTzZt0",
    "redirect_uri": "//library2.cybertekschool.com/redirect.html?t=eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9
    .eyJ1c2VyIjp7ImlkIjoiMTYwIiwiZnVsbF9uYW1lIjoiVGVzdCBTdHVkZW50IDMwIiwiZW1haWwiOiJzdHVkZW50MzBAbGlicmFyeSISInVzZXJfZ3JvdXBfaWQiOiIzIn0sImlhdCI
    6MTYzNTk4MTAyMiwiZXhwIjoxNjM4NTczMDIyfQ.yNsv1Lj3bDcAZO5rO4YLc2PbS-BvphNMMMa-xPTzZt0"
}
```

I send post request to /login endpoint with Username and password. Then response will contain access_token.

Now I can use this access token for other API endpoints

2

REQUEST

GET → https://library2.cybertekschool.com/rest/v1/get_book_list_for_borrowing

Params Authorization **Headers (2)** Body Pre-request Script Tests

	KEY	VALUE
☑	Accept	application/json
☑	x-library-token	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyIjp7ImlkIjoiMTYwIiwiZnVsbF9uYW1lIjoiVGVzdC...

RESPONSE

```
[
    {
        "id": "2892",
        "name": " (noname) - 1989",
        "disabled": "1"
    },
    {
        "id": "2892",
        "name": " (noname) - 1989",
        "disabled": "1"
    },
```

Once I have the Access token, now I send that access token To other Api endpoints/URIs as a part of the HEADER.

Token represents data about the user that it was created from. We can read or convert the token into json using https://jwt.io Or using java libraries.
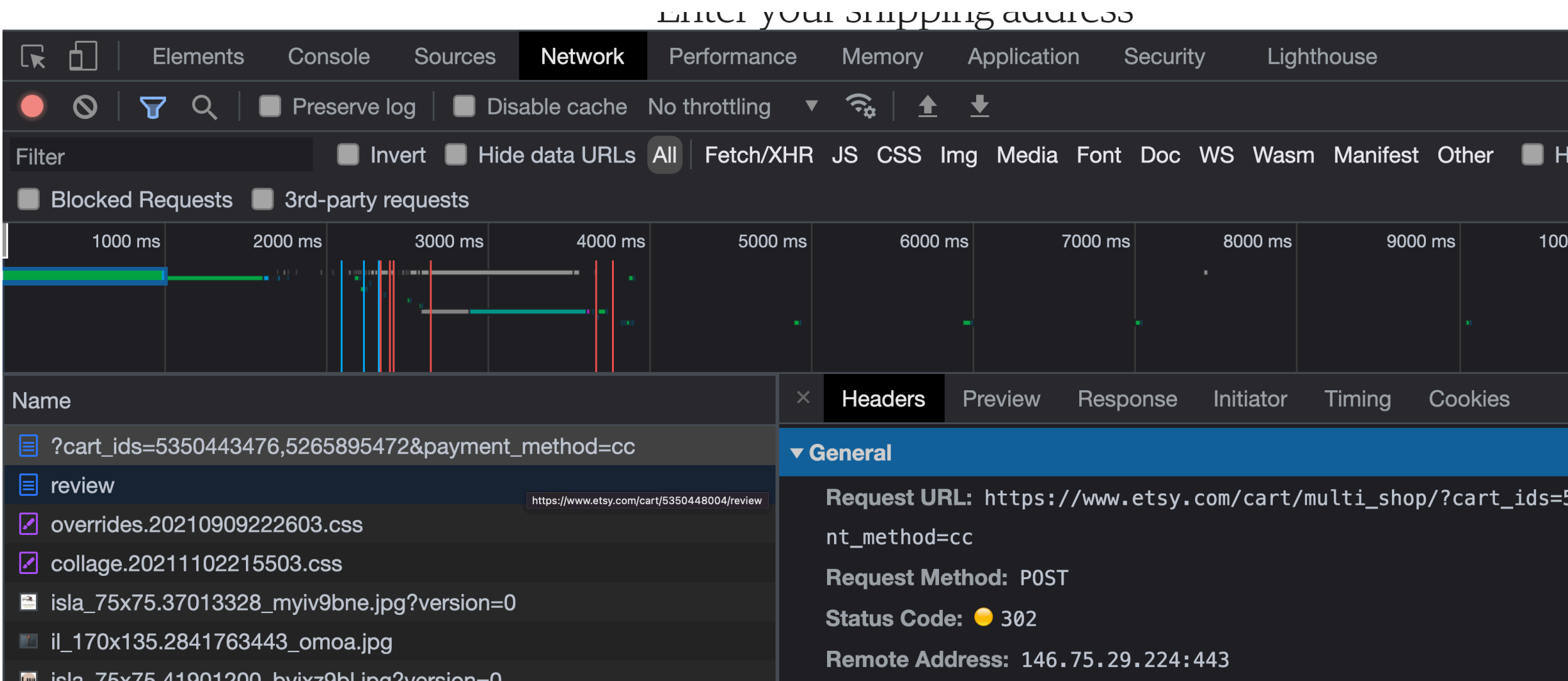
It is recommended to do your investigation before logging the defect:

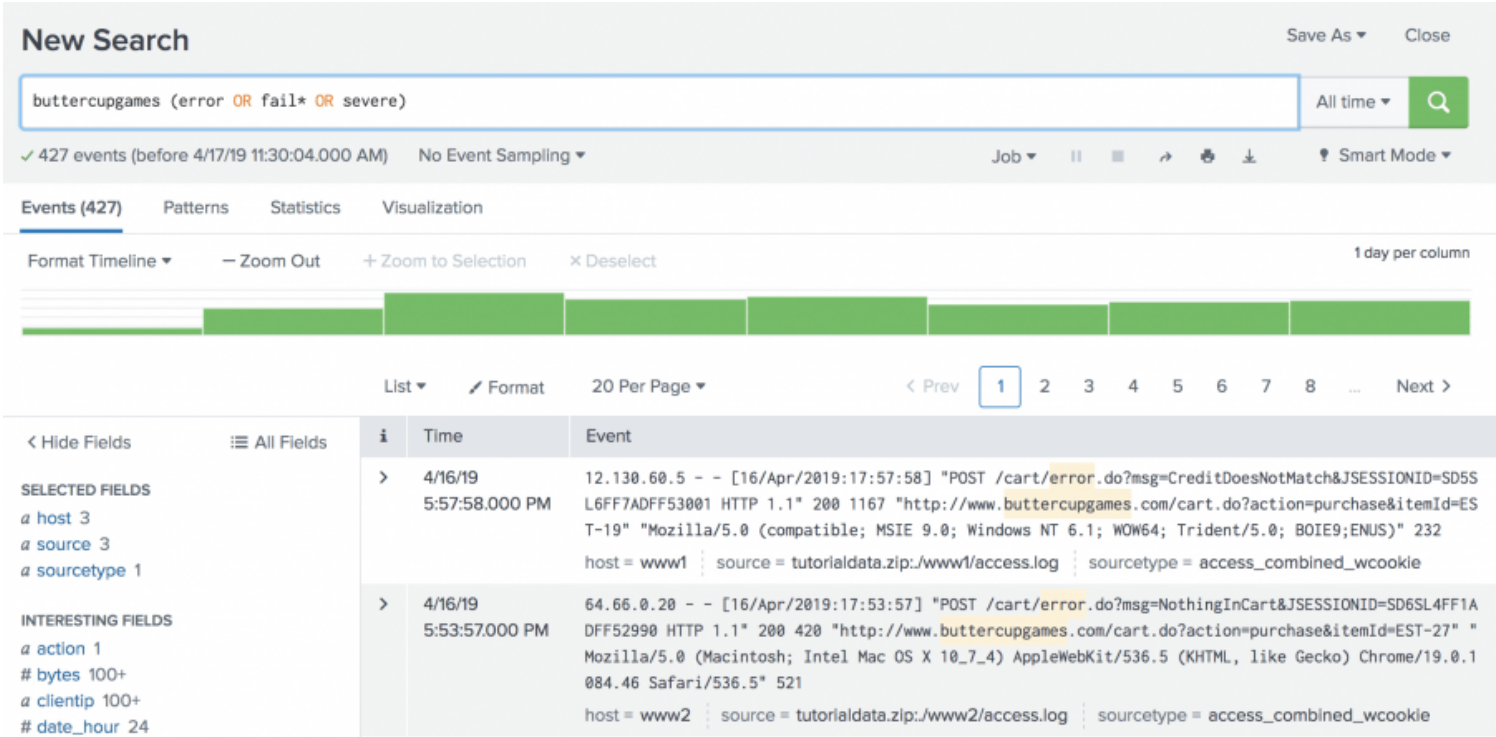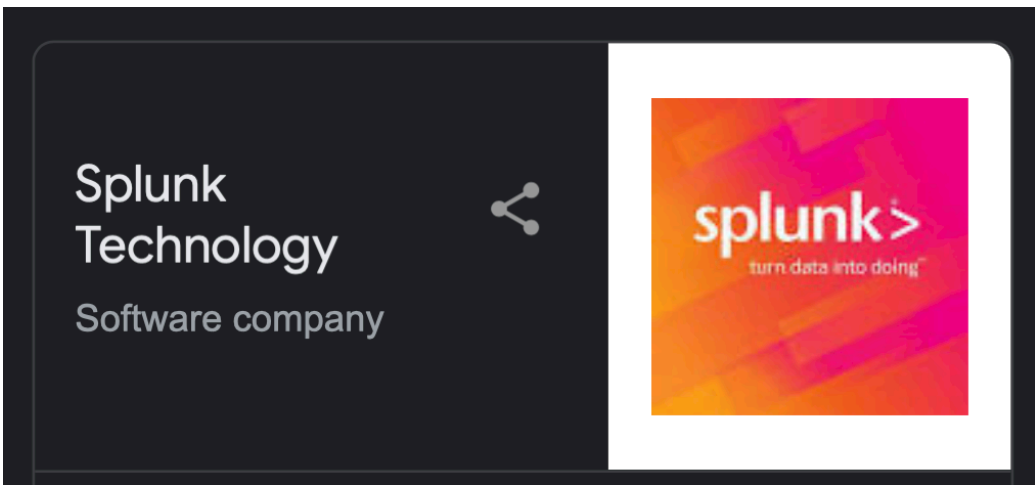Look at network tab in chrome developer tools

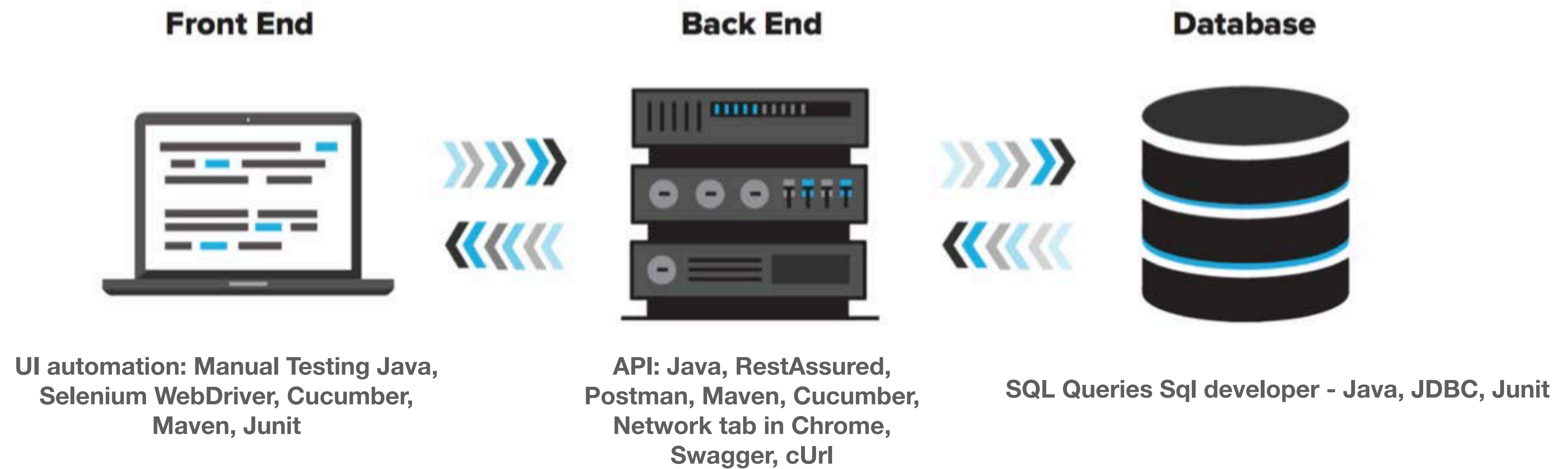See if any request or step shows error

API/APP NOT WORKING AS EXPECTED. WHAT YOU DO NEXT?

If there is no front end to check the network tab steps. I would go through the LOGS of the application.

We use Splunk for application log analysis and searching. I write splunk query to see all the logs for the user And try to find out what is the issue.

Front End

Back End

Database

UI automation: Manual Testing Java,
Selenium WebDriver, Cucumber,
Maven, Junit

API: Java, RestAssured,
Postman, Maven, Cucumber,
Network tab in Chrome,
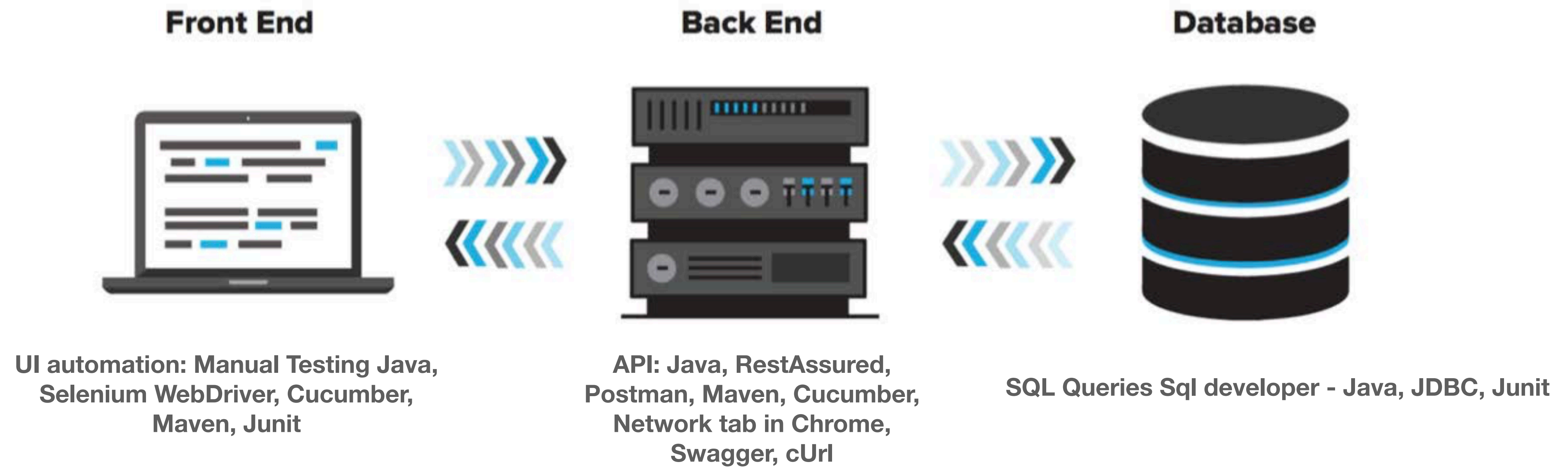Swagger, cUrl

SQL Queries Sql developer - Java, JDBC, Junit

I specialize in Full Stack Test Automation, for UI, I do manual testing and automation using Java,, Selenium WebDriver, Cucumber BDD ,
Maven, Unit etc.

I do Rest Api Testing manually using Postman then automation using Rest-Assured library in Java. For documentation and learning
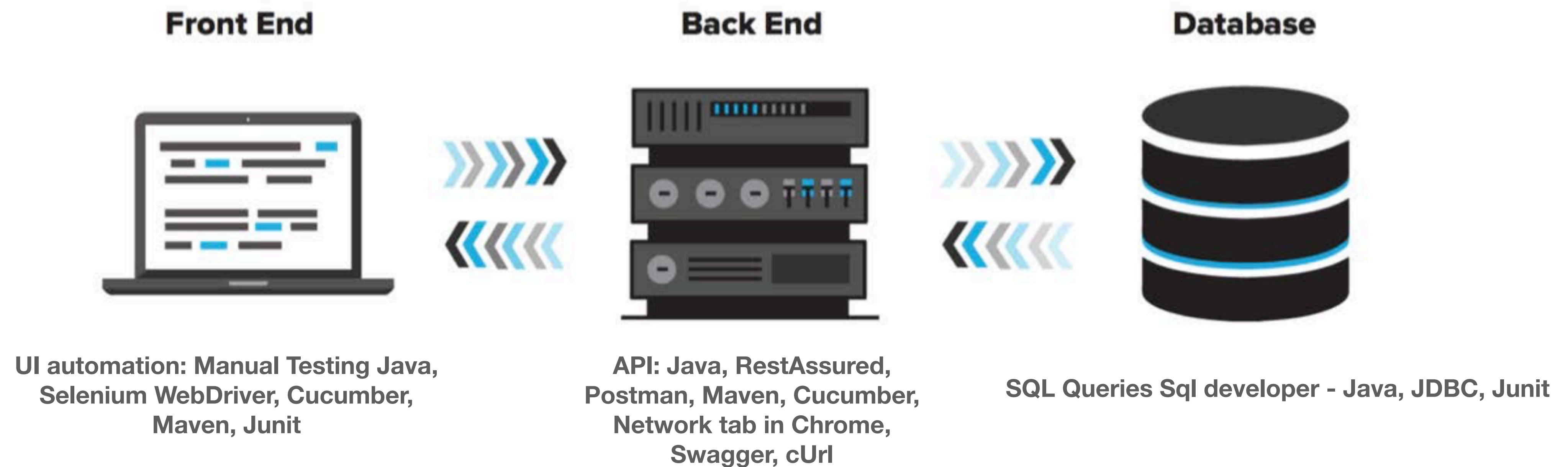About API endpoints I use Swagger or Network tab in Chrome.

For database testing, I have experience with working on Relational Databases like Oracle, MySlq,
And I am good writing SQL queries using DDL and DML commands and verifying the data.
For Automation of Database verifications I use java, JDBC library along with ofc JUNit for assertions

Front End

Back End

Database

UI automation: Manual Testing Java, Selenium WebDriver, Cucumber, Maven, Junit

API: Java, RestAssured, Postman, Maven, Cucumber, Network tab in Chrome, Swagger, cUrl

SQL Queries Sql developer - Java, JDBC, Junit

What are the main challenges faced in API testing?

- In My project, our application and and Rest API have several dependencies on external Rest APIs being up and running. So sometimes I have Challenge to properly execute and test my Rest Api and the Application end to end.
Did you do anything about it? Yes, I requested a MOCK environment where all external API calls are MOCKED using WireMock.

http://wiremock.org

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Back End

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UI automation: Manual Testing Java, Selenium WebDriver, Cucumber, Maven, Junit

API: Java, RestAssured, Postman, Maven, Cucumber, Network tab in Chrome, Swagger, cUrl

SQL Queries Sql developer - Java, JDBC, Junit

What are the main challenges faced in API testing?

- In My project, I have automation FullI End to End Automation Scenarios, where I have to test the application from all layers.
- My automation code goes to UI and posts some data and does some processing then Right away, I need to send request to API
To see if my changes from UI are in the API response

I have to compare and VALidate large amount of data between UI wettable and API Json and also SQL resultset.
So it was a challenge to be able to automate data validation because of volume and data formatting differences.
- I wrote many utility reusable methods with Java Data structures and collections to validate the data.

UI Webtable data -> Read using Selenium WebDriver —> Store the data into a List of Maps
Rest API Json data -> Read that using JsonPath or De-serialize it to another List of Maps
SQL Resultset object -> Read that using JDBC library -> Loop through and store into Another List Maps ->
List<Map<String, Object>> data = new ArrayList<> ();

Then I compare them and report any mismatches.

I also wrote many POJO classes to match data ON UI, API, and DATABASES and use extensively in my framework.