**Technical Issues and Resolutions**

* Authorization

We faced challenges regarding authorization with JWT Bearer Token in Swagger API as well as POSTMAN.

We were unable to login in the Swagger link.

Resolution:

In Swagger Link first we went to User Login link and from there we generated Bearer Token and Put the Token with ‘Bearer’ key word in the value text box in the Authorize tab and close.In Postman we generated Bearer Token running the user login request and copy and put the Bearer Token in the in the Token text box of Authorization tab in the collection after selecting Authorization Type Bearer Token.

* End to end testing (Chaining )

We Faced Difficulty to implement End to End testing i.e. data chaining.

Resolution:

We stored dependencies like IDs, names and other information that is required to process next requests in Collection Variables, Environment Variables and Global Variables.That variable values we used in various requests.

Request Chaining we did using postman.setNextRequest(<RequestName>)

* Data Driven Tests for Negative test cases with iteration

We were not able to understand how to perform data driven tests with negative scenarios.

Resolutions:

We learned how to provide Negative Scenario data in a csv file for Data driven testing.We created columns for every negative scenario and put values for every iteration.

* JSON Schema Validation

We did not know how to validate JSON Schema. So we found it a little challenging.

Resolutions:

We generated JSON Schema for every JSON Response body to get Test Scenarios.There are a lot of JSON schema generator in the internet.We used one of them.In the JSON schema we need to remove the first line and copy the whole schema body to validate in the Postman “<https://jsonformatter.org/json-to-jsonschema>”.

We did JSON Schema validation using TV4 and AJV both.

* Run collections in command line with Newman HTMLExtra Report, global variables and environmental variables

Report generation was a bit challenging for us.

Resolution:

We installed NodeJS and Newman. Also Installed HTMLExtra package of Newman.Then we ran the report using “Newman run” command in the command line along with postman collection.json, environment.json,global.json and .csv file.

* Challenges using common workspace

We faced challenges in using a common workspace. When one person runs one folder, the variables stored by others are getting removed.

Resolutions:

We explored storing variables in different levels.

Global variables are for things that don’t change across collections.Environment variables are for environment-specific configurations, and collection variables are for values shared within a specific collection.We used the above three variables in our hackathon.