**QA World Cup – Round 3**

Problem Statements

# Problem type: Test Automation

Application (URL) to use: <https://www.makemytrip.com/>

Automation tool: Any

Test Steps:

|  |  |
| --- | --- |
| Sr. No. | Step description/instruction |
| 1 | Launch **MakeMyTrip** website |
| 2 | Select From & To and search flights |
| 3 | Sorting, Filter should be used while performing below Scenario:  1) Find the flight with lowest & highest fare price.  2) Find the First & last flight of the day  3) Find the flights with Non-Stop, 1 Stop or 2 Stop & store them in different lists.  4) Create a HashMap with Key as Airline name and value as Price of all the flights available.  Eg:  {"Indigo": ["7308", "1234", "4321"],  "Airasia": ["7308", "1234", "4321"],  "Vistara": ["7308", "1234", "4321"], etc} |

# Problem type: Performance testing

Automation tool: Any

|  |  |
| --- | --- |
| Sr. No. | Step description/instruction |
| 1 | Create a script with the following specifications:   1. A thread group which is run multiple times for single user. 2. Contains 2 Samplers A and B 3. An integer variable X is read from CSV 4. When X is odd A is executed. 5. When X is even B is executed. |

# Problem type: Test Automation

Application (URL) to use: <https://www.covid19india.org/>

Automation tool: Any

Test Steps:

|  |  |
| --- | --- |
| Sr. No. | Step description/instruction |
| 1 | Create a script to handle SVG Graphs and Shadow DOM elements using selenium 4.0.  Handle SVG Graph using selenium |
| 2 | Print the Confirmed and Active Text from graph for Delhi Location |
| 3 | Print all the graph points for Confirmed and Active Cases for Delhi Location |
| 4 | Create a script to handle Shadow DOM elements using Selenium 4.0 |
| 5 | Go to downloads from Chrome browser and identify the search bar and print Hello in search bar. |

# Problem type: Programming

Programming Language: Any

Problem Statement:

JSON Operations- Create a solution where you need to perform following tasks on given JSON file as input

1. Data type validation
2. Value validation based on key name (Few example for valid input keys– firstname, address.city, department[0].id)
3. Schema validation (JSON validation if JSON valid or not, non-blank object)
4. Key Existence (Method should take input as key and return true/false based on its existence. Few example for Valid input – firstname, address.city, department[0].id)

Additional Information:

* Separate methods should be created for different tasks.
* Methods should be generic so it can be used for any JSON schema (Schema file can vary).
* Handle negative scenarios. Exceptions should be handled properly
* Sample JSON schema and example can be found attached here.



# Problem type: Designing Test Approach

**Context and problem statement:**

ABC is a very large global bank providing services linked to retail banking, private banking, investment banking, insurance, leasing, loan and card related services. This bank has a single platform, a website for consumers to provide these services. The website supports two languages, English and Arabic and has many webpages, close to 300 with integration to many other back-end systems at the bank.

The business of ABC bank is not happy with the design and layout of this website. The business thinks that the design is old, not user friendly and intuitive. There is no ‘wow’ effect on the website to delight the customer while using it. In general, the business thinks that the user experience is bad, directly impacting the business of the bank and customer experience.

The business of ABC bank has asked the bank IT to initiate “website redesign” project. The objective of the project is to:

1. Create new layout, look & feel of the website
2. Make website more user friendly and enhance user experience
3. Redevelop/redesign all front-end web pages of website
4. The project does not include changes to back-end (database) and API layer
5. The project does not include changes to business workflows, there should absolutely be no change to website functionality.
6. There is no data migration involved.

**The ask:**

You are quality lead of the website redesign project. Kindly do following:

1. Write high level testing approach in 200-300 words
2. Which testing types would you like to perform?
3. Assuming scrum model of delivery, what are your testing KPIs?