

## Task 1

Imagine the following situation. You need to establish a QA process in a cross-functional team. The team builds a front-end application using REST APIs.

### 1. Where would you start? What would be your first steps?

My strategy:-

- I. We should start with understanding of functionality of Rest APIs and the behavior of the application.
- II. Select Tools to be used and testing approaches to be followed
- III. Next design the high level scenarios and low level test cases and get it approved from business/stakeholder.
- IV. Connect with business or respective person to get the realistic data set or create our own databases on experience.
- V. Now we can test all REST APIs with different inputs and resources and can validate expected and actual results
- VI. After these steps, we would conduct performance testing (load testing, Stress testing, Volume Testing) to see if the performance matches the requisite KPIs.

### 2. Which process would you establish around testing new functionality? How would you want the features to be tested?

My strategy:-

- i. First we'll perform Build Acceptance Testing to make sure that given build is stable.
- ii. Now we'll create test suite and send valid inputs to each test cases which would verify the behavior of new functionality and check the if outputs are matching with our expected responses.
- iii. After this we'll run our regression suit pack to check whether or not the new functionality are causing any side-effects.
- iv. After this steps, we'd conduct performance testing (load testing, Stress testing, Volume Testing) to see if the performance matches our requisite KPIs.

3. If you would do a test automation which techniques or best practices would you use the application?

My strategy:-

- i. Decide what Test Cases to Automate
- ii. Test Early and Test Often
- iii. Select the Right Automated Testing Tool
- iv. Divide your Automated Testing Efforts
- v. Implement auto tests once development parts of CI/CD pipeline.