* + 1. What will be essential point of your test strategy

Test strategy should contain

* Test scope
  + Valid requirement for Web based testing
  + Valid requirement for API testing
* Test Objective
* Out of scope
  + In this project ,Logging and reporting services will be out of scope
* Environment set up
* Assumption
* Entry criteria
* Exit criteria
* Risk Analysis
* Test Resources
* Testing process and methodology
  + Web base testing
    - Important Testing passed for this project
    - Sanity Testing
    - System Testing
    - System Integration testing
    - Regression testing
    - Security testing
    - Pre-production testing
    - Production Testing
  + ResAPI testing
    - Important Testing passed for this project
    - Sanity Testing
    - System Testing
    - System Integration testing
    - Regression testing
    - Security Testing
    - Pre-production testing
    - Production Testing
  + Automation testing (framework and script development)
* Test Schedule
* Data management
* Defect Management
* Contract with AWS cloud
  + Select and document the services which we want to use
* Plan for continuous Integration
* Communication approach

These are common point to develop the test strategy for this project.

As we are getting 60% profit from retailer (web based testing) and 40% profile from re-seller (40%) , we need to set the priority for web based testing (retailer) as profit than rest API testing

Again what AWS services which we are going to use it should be clearly document as it will impact our project or testing budget.

1.2 What will be main challenge for testing in this project.

Main challenge for this project is its duration and it is just 3months.

1. Getting skill resources
2. Continuous and working environment set up with good internet connection

1.3 how will you approach test automation strategy in this project

1. I will recommend developing Hybrid framework (which is combination of Keyword driven framework and data driven framework.

2. Framework should lead to void code duplication and low-cost maintenance

3.We need to identify the requirement or test scenarios which will be automated. Need to document in -scope and out of scope .

4. Identify the common function related application and categories those common function as per functionality

5. Identify the common function that support automation script development like access and update the test data, configuration properties , object properties ,framework constant variable, generate the reports and logging

6. Identify common function related to tools

6. Document the coding standard for script development

7. Set up the process for merging the code with master branch in Git hub

Automation test team should use folder structure like below

* Src/main.java
  + BrowserLib
  + Configuration
  + CommonLib
  + Constant
  + Global variable
  + ReportLib
  + TestDataLib
  + WebDriverLib
* Src/test/java
  + Testsuite
  + Ui function
* Report
* TestData
* Configuration
* Object Properperties

1.4 How would you approach the integration of automated test into the project CICD/pieline

We can achieve this by creating jobs in Jenkins by using following option

Build trigger -> build after project builds

Post build Action-> Build another project

2.1 Which methodologies would you recommend for this project development?

Answer: Actually we must live in 3 months.

So , I will recommend to use Agile methodology.

2.2 why

Because duration of project is only 3 months. Based on all user stories and their priority in product catalog, need to create different sprint.

Once particular sprint will be complete, it will be live the deliverable immediately. We will have sufficient time to fix the issue in test environment or production environment

There will be problem with water fall or V Modal as duration is short. If we adopt V Modal or Waterfall model, deliverable will not be continuous. And if we will get any issues during testing or production environment, we will have very limited period to fix it. And It is huge risk to deliver the project.

3.1 – How would you configure the test team for this project?

I will configure the test team based on their knowledge , attitude and his/ner welingness to learn new things as per project demands, his flexibility ,does matter if he will work remotely 0r locally

3.2 – which skills would you consider essential for your test team members to have

Test team must have knowledge or experience in following skills

* Manual and Automation knowledge / experience especially in Web and Rest API testing
* AWS Cloud
* Database knowledge
* Experience in Agile methodology

3.3 which mindset and attitudes would you look for in your test team member?

Test team should Look into details and test to break attitudes.

Self-organized and will discipline and frequent communication other resources in the team

4.1 How would you identify the test scenarios or test cases needed?

We will identify the test scenarios or requirement by referring requirement document or user stories if available.

Otherwise we can refer High level design or detail level design documents as well.

If needed or possible , we can discuss the requirement with business user or end user.

4.2 How would you keep tracebility between the test scenarios/test cases and requirement?

4.3 How would you split the testing responsibilities between developes and testers?

As I am recommending Agile methodology m so developer and tester will work together to accomplish the task.

But main developer will responsible for development activities and unit testing and Tester will responsible for test activities like sanity,system , system integreation and all activities

5.1 Which tools would you use for test management?

Jira

5.2 Which tools would you for performance testing?

Jmeter

5.3 Which tools/framework would you use for API testing and API automation

Hybrid framework (combination of keyword driven and and data driven framework)

5.4 Which tools/framework would you use for FE testing and FE automation

Selenium

5.5 Which other tools would you use?

Jenkins ,Github, AWS cloud and its services