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| **Name:** | **Ms. MEN Phors** |
| **Apply for:** | Assistant Manager, Agile Quality Assurance |
| **Date:** | **04-Nov-2023** |

**Question and Answer**

**1,Mobile Automation: Could you please recommend at least two tools or framework we can automate mobile UI functionalities? Please tell us why you recommend those tools to us?**

Answer:

**Appium**: It used mostly in the field of software test automation, to help determine whether the functionality of a given app is working as expected. UI automation allows testers to write code that walks through user scenarios in the actual UI of an application.

**Tenjhin / Yethi**: are digital enables seamless test automation of enterprise mobility applications and covers native as well as hybrid applications across multiple platforms.

The most used tool is Appium, and Tenjhin needs to invest. They also need to have a vendor to support these tools.

**2.Web Automation: Could you please recommend at least two tools or framework we can automate web UI functionalities? Please tell us why you recommend those tools to us?**

Answer:

**Selenium**: an open-source, automated testing tool used to test web applications across various browsers. Selenium can only test web applications.

**Cypress**: is test automation tools used for functional testing of web applications by automating browser actions.

**3.API Automation: Could you please recommend at least two tools or framework we can automate API functionalities? Please tell us why you recommend those tools to us?**

Answer:

**Postman**: it creates and automate test suites: Postman's code snippet library enables users to write tests for every request in a collection, which can be chained together to create test suites that validate complex workflows.

Rest Assured: it used to verify the REST APIs with the help of the Java library. Java library acts like a headless client to act upon the Rest web services. The libraries based on the Rest Assured library are also capable of validating the HTTP responses from the server.

**Recommend**: Postman

**4.Test Management: Could you provide at least 3 software testing methodologies that we need for testing in bank sector?**

Answer:

1. **Unit Testing**: this testing is performed by Software Developer.

Unit testing involves breaking down the software's source code into small units to be tested individually. It is to allow individual parts of the software to be tested, rather than focusing on the performance of the software.

1. **System Integration testing**:

It involves testing the entire system to ensure that it performs as expected. The system is tested after each individual unit has been successfully tested and integrated into the system. The main purpose of this testing is to test the operation of the entire system and identify previously unnoticed bugs and problems so that they can be corrected before production. System testing is usually done by a separate testing team instead of the development team or SIT team.

1. **User Acceptance Testing:**

This phase involves testing the final software product to ensure that it complies with all business requirements and meets the needs of the end-user while performing as expected.

To make sure the software product is ready for delivery to the end user. Testing during this stage is usually done both internally by a quality assurance team and externally through beta-testing with a sample of end-users.

**5.Test Case: Could you provide a sample template of writing a good test case?**

Answer:

**Test Case ID**: A unique identifier for the test case.

**Test Case title**: A descriptive title for the test case.

**Test Objective**: The objective of the test case.

**Pre-conditions**: Any necessary conditions that must be met before the test case can be executed.

**Test Steps/test Scenario**: A step-by-step sequence of actions to perform during the test.

**Expected Results**: The anticipated outcomes or behaviors after executing the test steps.

**Actual Results**: The actual outcomes result of test case observed when executing the test steps. It can detail about result.

**Status**: The pass/fail status of the test case.

**Remark**: The comment of the case

**Test Data**: The summary of the test data

**6.Jira: Could you tell us something about how Quality Assurance Use the Jira?**

Answer:

**Issue tracking, Workflow management, Release management and Reporting. issues, projects, and workflow.**

**The following we can track issue through JIRA feature:**

**- Helps Detect Issues with Ease: it is easy to identify and treat software bugs/defects, issues related to project management, issue helpdesk and enhancement requests.**

**- Categorizes and Links Issues: This feature assists the testers to differentiate between issues that appear similar and also track these issues accurately.**

**- Cloning of Original Issues:** **They can use this feature to their advantage by providing access to multiple users while managing a single issue on their own.**

**7.Gitlab: Could you tell us something about Quality Assurance using Gitlab source code control?**

Answer:

- **Version control**: is used to track revisions, solve integration conflicts in code, and manage different artifacts involved in software projects (release version or release candidate).

- **Branching and merging**: QA teams to create branches of the codebase for testing purposes. (merging branch with others branch)

- **Code reviews**: review source code

allows QA teams to review code changes before they are merged into the main codebase with specific bugs or issue.

- **CI/CD**: It is helped for deployment testing

**8. SCRUM: Could you tell us what is the QA role in Agile Scrum Framework?**

Answer:

Write and execute test cases, Report and track bugs, Automate testing, Collaborate with the development team, Provide feedback to the product owner

QA must be involved in the entire development process, from planning to release, to ensure that quality is built into the product from the beginning. By working closely with the Development Team, Product Owner, and Scrum Master, QA teams play a crucial role in ensuring the success of the Scrum framework.

**9. Project: Please create a small project using Playwright Test Automation Framework. Visit "playwright.dev" for guideline. Please use Github public repo to share with us in your answer.**

**Answer**: **https://github.com/menphors/answer\_am\_agile\_qa**

10.About yourself: Could you describe about your personal strength and weaknesses? How do you contribute your skills to Agile QA team and Woori Bank for improvement?

Answer:

* **My Strength**: I can work under pressure. I can run the project at the same time even at the tiny time. I can be flexible with the requirements.
* **My weaknesses**: I am attentive to detail. I need to take some time to get more understanding.
* I can contribute my skills to Woori Bank with my talent skills such QA improvement process with agile scrum framework using Agile methodology, Project Management and dedicate my technical skills to apply with the current position that I used to have experience.