Estimation

Work Breakdown Structure (WBS) for Test Activities

1. Requirement Analysis (2 hours)

- Review and understand the provided requirements.
- Identify potential ambiguities or gaps in the requirements.

2. Test Planning (4 hours)

- Develop a high-level test strategy based on the requirements.
- Identify test scenarios and test cases corresponding to each requirement.
- Define test data and environment requirements.

3. Test Design (8 hours)

- Create detailed test cases for each identified scenario.
- Design test data that covers various situations, including edge cases.
- Develop reusable test scripts where applicable.

4. Environment Setup (3 hours)

- Set up the testing environment with necessary configurations.
- Ensure compatibility with multiple browsers and operating systems.

5. Automation Framework Setup (5 hours)

- Set up the automation testing environment using selenium with testng framework

6. Manual Test Execution (12 hours)

- Execute test cases according to the test plan.
- Record test results and identify defects.
- Perform exploratory testing to uncover additional issues.

7. Automation Script Execution (10 hours):

- Executing automated test scripts.
- Analyzing automated test results.

6. Defect Reporting (2 hours)

- Document and report any defects found during testing.
- Provide clear and detailed information to developers for issue resolution.

7. Test Data Management (2 hours)

- Ensure the availability and accuracy of test data.
- Manage and refresh test data as needed.

8. Performance Testing (6 hours)

- Conduct performance testing to ensure search results are provided without delay.
- Evaluate system response times under various conditions.

9. Usability Testing (4 hours)

- Assess the user-friendliness of the interface.
- Gather feedback on the system's navigational aspects.

10. Documentation (5 hours)

- Prepare test documentation, including test plan, test cases, and summary reports.
- Provide documentation for future reference.

Assumptions:

- Developers are available for prompt defect resolution.
- The testing environment is stable and reflects the production environment.
- Test data is available and covers a wide range of scenarios.

Expected Quality Level:

- The testing activities aim to ensure a high level of quality, covering functional correctness, performance, and usability aspects. The goal is to identify and address any issues that may impact the user experience or system reliability.

Bonuses:

- The estimation includes time for continuous improvement based on feedback.
- The process emphasizes collaboration between testing and development teams for efficient issue resolution.