**TEST PLAN**

**1. Overview:**

A test plan for the main test activities that will be conducted by the team for Ton Tasks project in the period from September 13 to September 27.

(All team members are required to read this document thoroughly).

|  |  |
| --- | --- |
| **Project Name:** | Ton Tasks |
| **Test Plan Version:** | 1.0 |
| **Created By:** | Sara Rashwan |
| **Date:** | 13-9-2024 |
| **Sprints:** | 2 Sprints |

**2. Objective:**

Ensuring that all features developed during Sprint 1 and Sprint 2 meet the acceptance criteria and are free from critical defects.

**3. Scope of Testing:**

**In-Scope:** Functional testing for features in Sprint 1 and Sprint 2.

**Out-of-Scope:** Features not included in these two sprints (e.g., future features, performance testing, or non-functional requirements that are not planned).

**4. Test Items:**

**Sprint 1:**

Feature A: User login and log out

Feature B: Create task

Feature C: Change account data

**Sprint 2:**

Feature D: Change app language

Feature E: Public task testing

Feature F: Follow other users

**5. Test Strategy and Approach:**

**Test Levels: System Testing**

Who: performed by Sara Rashwan .

When: After each sprint, once the integrated system is ready.

How:

System testing involves validating the entire application end-to-end, focusing on functional requirements.

Test cases will cover all features developed in the sprint.

Both automated tests (e.g., using JIRA XRAY) and manual test cases can be used to validate the project features.

Success Criteria:

The entire system should meet all defined requirements and work as expected in its operational environment.

**Testing Types:**

**A. Functional Testing:**

Who: Performed by Sara Rashwan.

When: After each sprint, during system testing.

How: Test cases will be based on the acceptance criteria of each user story.

Both manual and automated functional tests are executed to cover different scenarios

(e.g., valid inputs, invalid inputs, edge cases).

Success Criteria: Each feature works as intended, with no functional defects.

**B. Regression Testing:**

Who: Performed by Sara Rashwan.

When: After Sprint 2, or after any major code changes.

How: Regression testing ensures that new features introduced in Sprint 2 don’t break or negatively affect features developed in Sprint 1.

Done through automated tests, which are added to the continuous integration pipeline and triggered automatically after code changes.

Success Criteria: All previously working features continue to function correctly, without new bugs.

**6. Test Schedule:**

**Pre-testing Activities:**

|  |  |  |
| --- | --- | --- |
| **Duration** | **Activity** | **Assignee** |
| 13th of SEP | Review Figma Design | Sara Rashwan |
| 14th of SEP | Review SRS | Sara Rashwan |

**Sprint 1:**

|  |  |  |
| --- | --- | --- |
| **Duration** | **Activity** | **Assignee** |
| 15th of Sep & 16th of Sep | Test Case Design | Sara Rashwan |
| 17th of Sep to 19th of Sep | Test Execution | Sara Rashwan |

Defect Reporting: Continuous, until end of sprint

**Sprint 2:**

|  |  |  |
| --- | --- | --- |
| **Duration** | **Activity** | **Assignee** |
| 20th of Sep & 21th of Sep | Test Case Design | Sara Rashwan |
| 22th of Sep to 24th of Sep | Test Execution | Sara Rashwan |
| 25th of Sep & 26th of Sep | Regression Testing | Sara Rashwan |

Defect Reporting: Continuous, until end of sprint

**7. Test Environment:**

**Staging Environment:** staging Environment Link.

**Tools and frameworks to be used:** Jira for bug tracking, Xray for test management.

**8. Project Documents:**

**FOR Figma project:**

<https://www.figma.com/design/JZ3dDs20PPqnDwIFOhYPHI/ToN-Tasks?node-id=0-1&node-type=canvas&t=tqusoaXWz4KGZNCW-0> .

**For Acceptance Criteria:**

SRS pdf file.

**For Regression testing:**

Previous versions of the Application.

**9. Resources:**

**Testers:** Sara Rashwan.

**Developers:** [Developer names].

**Product Owner:** [Name].

**10. Entry and Exit Criteria:**

**Entry Criteria:**

User stories and acceptance criteria are defined and approved.

Test environments are ready.

Test data is prepared.

**Exit Criteria:**

All critical and high-severity defects are resolved.

95% of test cases pass.

Stakeholder sign-off for each sprint.

**11. Defect Management and Defect Lifecycle:**

**Tool:** Jira with Xray Plugin  
**Purpose:** Manage defects during Sprint 1 and Sprint 2 for effective tracking, reporting, and resolution.

**Defect Fields:**

* **Summary:** A short description of the defect.
* **Description**: Detailed information about the defect, including steps to reproduce, expected results, actual results, and any relevant attachments (e.g., screenshots).
* **Severity:** Blocker, Critical, Major, Minor.
* **Priority:** High, Medium, Low.
* **Status:** Open, In Progress, Resolved, Reopened, Closed.
* **Assignee:** The person responsible for resolving the defect.
* **Test Case Link (Xray):** Link to the specific test case that failed, leading to the defect.

**Reporting Defects will follow the following flow:**

1. **Open:**

* A tester logs a new defect in Jira, linking it to the associated test case in Xray.
* The defect is assigned to the developer for investigation.

1. **In Progress:**

* The developer is working on the defect, updating the Jira status to "In Progress."
* If necessary, the defect can be assigned back to the tester for more details or clarification.

1. **Resolved:**

* The developer resolves the defect and updates the status to "Resolved."
* Details about the resolution are logged (code changes, modules impacted).

1. **Confirmation Testing :**

* The tester re-executes the test case associated with the defect using Xray.
* If the test case passes, the defect is marked as "Closed."
* If the test case fails again, the defect is reopened, and the status is changed back to "Open."

1. **Closed:**

* If the retesting is successful, the defect is marked as "Closed" .

**12. Risk and Mitigation:**

**A. Risk:** Features may not be fully developed by the end of each sprint.

**Mitigation:** Focus on critical paths and conduct parallel testing for already completed features.

**B. Risk:** Test data may not be available in time.

**Mitigation:** Prepare test data well in advance and coordinate with developers.

**13. Test Deliverables:**

- The main work product that will be delivered to the client is defect reports

Test Plan Doc.

Test Cases and Test Scripts.

Defect Reports.

Test Summary Report after each sprint.