**Test Plan for WhatsApp**

**Introduction:**

The Test Plan specifies the scope, strategy, resources, and timing for entire Project WhatsApp testing operations.

The plan identifies the things to be tested, the features to be tested, the kinds of testing to be done, the persons responsible for testing, the resources and timetable needed to accomplish testing, and the plan's risks.

**Purpose:**

The purpose of testing WhatsApp application is to improve performance and to overcome bugs which makes the application easy and simple and secure to use and it will be system friendly application.

**Scope:**

These features are to be tested because they are included in the software requirement specs

* User Interface
* Communication Interface
* Website Security and Performance
* Functional and Non-functional Requirements
* Bug Identifications

**Objective:**

The Test goals are to validate WhatsApp functionality. The Project should concentrate on testing operations Such as message deliverability, Account Security, Performance etc., to ensure that all these operations can function correctly in a real-world business context.

**Responsibilities and Roles:**

|  |  |  |
| --- | --- | --- |
| **Sr. No** | **Name** | **Responsibility** |
| **1** | **Sai Surya Teja** | To find and describe the Functional requirements for the WhatsApp Application. |
| **2** | **Lakshman** | To find the Non-functional requirements for the Application. |
| **3** | **Harshitha** | To develop an appropriate Test plan which makes the project complete perfectly within the time. |
| **4** | **Ayushi** | To develop ECP of WhatsApp |
| **5** | **Vishakha** | To develop Boundary Value Analysis (BVA) of WhatsApp. |
| **6** | **Sneha** | To create state transitions. |
| **7** | **Dipti** | To create test scenario to describe functionality of App |
| **8** | **Sanmati** | To create test cases to check functionality of WhatsApp. |
| **9** | **Aman** | TO create test cases document |
| **10** | **Arjun** | TO create execution log |
| **11** | **Simran** | To create a defect report. |

**Methodology of Testing:**

**General Information**: The Methodology used in WhatsApp is Agile which helps to check and test at each step of Tasks so that there will be no confusion.

1. **Levels of Testing:**

In the project, there are 3 types of testing that should be conducted.

* **Integration** Testing (Individual software modules are combined and tested as a group)
* **System** **Testing:** Conducted on a complete, integrated system to evaluate the system’s compliance with its specified requirements
* **API (Application Program Interface) testing:**Test all the APIs (Application Program Interfaces) created for the software under tested

1. **Triage of Bugs:**

* **Suspension Requirements and Suspension Criteria**:

If team members indicate that 30% of test cases have failed, testing should be halted until the development team has fixed all the failed instances.

* **Completeness of the test:**
  + Specifies the requirements for completing a test phase successfully.
  + Unless a valid justification is provided, the run rate must be 100 percent.
  + The pass rate is set at 80% and passing is required.

**Test Deliverables:**

Test deliverables are provided as below

**Before testing phase**

* Test plan document.
* Test cases document.
* Test Design specifications.

**During the testing**

* Tool Simulators.
* Test Data
* Test Trace-ability Matrix – Error logs and execution logs.

**After the testing cycle is over**

* Test Reports
* Defect Report
* Installation/ Test procedures guidelines
* Release notes

**Requirements and Environment:**

The following elements are required to support the overall testing

* Access to the XMPP.
* At least one person must have a PC (Personal Computers).
* Access to the Backup process.
* The team must at least know basic operations involved in testing.

**Schedule:**

* Firstly, Team should have an exact plan to complete all the operations in order and perfect.
* They should have a list of required documents that completes the project
* Different systems to check whether all scenarios are implemented correctly in each system.
* Review each step before granting the project has completed
* Every Task in the project should be allotted with some time limit to complete the task
* The project should be completed within the given time and should be approved by the manager.

**Planning Risks:**

* The team should have backup members so that if any of the team members are not available the backup personnel can replace the place so there will be no delay in the completion of the project.
* Teams should work together and help each other to avoid disturbances.
* Team leaders should encourage team members in a way that they should complete their work within time.

**Approvals:**

* Firstly, All the team members should accept all the things need to be done.
* Project Sponsor
* Development Management
* Test Manager
* Team Manager