***TEST PLAN OF TELEGRAM***

| **Document Name** | **Software Test Plan** |
| --- | --- |
| **Telegram Application** |
| **Version No** | **9.6.3 (33449)** |
| **Release Date** | **15th July 2023** |

**STP History**

| **Version**  **No.** | **Release**  **Date** | **Current**  **Project Phase** | **Created**  **by and Date** | **Reviewed**  **by and Date** | **Approved**  **by Date** | **Remarks and changes Made** |
| --- | --- | --- | --- | --- | --- | --- |
| 9.6.3 (33449) | 15/07/2023 | Software Testing | Ajaysingh  15/07/2023 | Bhagyashri Ma’am  15/07/2023 |  |  |

**Distribution List**

| **Sr. No** | **Name** | **Role** | **Organization Name** |
| --- | --- | --- | --- |
| 1 | Ajaysingh | Software Tester | STAD Solution |
| 2 | Krushna | Software Tester | STAD Solution |
| 3 | Jigar | Software Tester | STAD Solution |
| 4 | Bipin | Software Tester | STAD Solution |

1. **Introduction: -**
   1. **Purpose: -**

* Telegram is an instant messaging tool that allows you to send and receive messages from your contacts even without sharing your phone number.
* Telegram’s core functionality is the same as most other messaging apps: You can message other Telegram users, create group conversations, call contacts, make video calls, and send files and stickers. However, there are a few specific features that make it work differently from other chat application.
* Telegram’s enhanced use of the cloud. Essentially, it stores all of your messages and photos on a secure server. This means you can access them from any connected device, making Telegram much more multi-platform friendly than other chat application.
* If you want to send big files, Telegram has much of the competition beat with support for up to 2GB files.
* Telegram allows you to create groups, new channel can add up to 200,000 members in the group which is great for organizations.
* One feature that people love about Telegram is the ability to have secret chats that are encrypted.
* User can share maximum 100 images/ video at a time, 200 stickers at a time and Message size up to 4096 characters.
  1. **Scope: -**
* Telegram is an instant messaging app that allows you to stay connected with people worldwide.
* It allows you to share media, make voice and video calls, and chat with multiple people and groups instantly.
* It has made it easier for people to keep in touch with their family, friends, and colleagues around the world.
* It has made it easier for people to send large size files, media, and photos.
* It has made it easier for people to create groups, new channel.
* It has made it easier for people to create secrete chat with peoples around the world without sharing contact numbers.

1. **Test Item: -**
   1. **Project Module: -**

* Sign Up
* Home Page
* Add Account
* Profile
* New Group
* New Secret Chat
* New Channel
* People Nearby
* Saved Massages
* Settings
* Chat
* Telegram Features
* Help
* Notification
* Invite Friends

1. **Feature To be Tested: -**

| **Module** | **Description** |
| --- | --- |
| Sign Up | User can sign up with a mobile number. User can select country also. User can add first name and last name. |
| Home Page | User can redirect to the contact list by clicking on pencil icon. User can view the chat list. User can pin/ un pin the chat. User can archive the chat. |
| Add Account | User can sign up with a mobile number. User can select country also. User can add first name and last name. |
| Profile | User can select profile picture from gallery or click by phone camera. User can edit profile. User can write about in profile. |
| New Group | User can create new group. user can set group chat settings, send and delete messages. User can add members in group. User can do video call. User can add group to home screen. |
| New Secret Chat | User can invite people for secret chat. User can encrypt messages.  User can send / receive messages, images, files, location, contacts etc.  user can set chat settings. User can do video / audio call. |
| New Channel | User can create channels. User can set channel settings. User can delete channel. |
| People Nearby | User can search the people in nearby places. |
| Saved Massages | User can save the massage from chat as well as chat group |
| Settings | User can change the setting as per their requirement. |
| Chat | User can send / receive messages, images, files, location, contacts etc. User can set chat settings. User can search contact for chat. User can add new contact. User can do video / audio call. |
| Telegram Features | User can use telegram features. |
| Notification | User can turn on / off notification. |
| Invite Friends | User can invite friends. |

1. **Feature not to be Tested: -**

| **Module** | **Description** |
| --- | --- |
| **Help** | User can see help related content like Ask a question, Telegram FAQ& privacy policy. |
| **Security** | User can add the security using two step verification, passcode lock, blocked users, Devices etc |
| **Privacy** | User can set the privacy on interactions and connections. |

* 1. **Methodology: -**
* Spiral Model

1. **Approach:**

Whole Requirements are divided into small modules, errors or bugs found earlier. Client Requirements are changing frequently. Risk is also high.

* 1. **Types of Testing: -**
* Smoke Testing
* Re-testing
* Sanity Testing
* Regression testing
* Compatibility testing
* Portability testing
* Performance Testing
* Stress Testing
* Alpha Testing
* Load Testing
* Usability Testing
* Interrupt Testing
* Security Testing
* Installation Testing
  1. **Testing Tools: -**

1. Jmeter
2. Selenium
3. Jira
   1. **Entry/Exit Criteria: -**

* **Entry Criteria: -**
* All the Requirements are clear and understood.
* Documents are created and according to the requirements.
* Test cases are developmentally ready.
* Sign up, Login or profile module is created.
* Test Plan and Test cases are reviewed and signed off.
* Testable Code with Appropriate Test Environment.
* Access to sufficient and desired test data.
* **Exit Criteria: -**
* All the Test Cases are executed.
* All the requirements, functional coverage are achieved.
* Identify and fix high priority defects.
* The entire main module is tested like sign up, Home Page, Add Account, Profile, New Group, New Channel, chat and Settings then the project will be delivered.
* All the modules will test once.
* Payment method is tested correctly and no bugs will remain to fix.
* No major defects or bugs found in all main modules.
* The failure of a certain level of time and budget.

1. **Pass/Fail Criteria: -**

* **Pass Criteria: -**
* Actual requirements match with the expected requirements than the test cases will pass.
* Passing a criterion is dependent on the project scope, but achieving a high pass rate is the goal.
* End User can understand the application and use it easily.
* All Test Cases are completed.
* Completion of documentation
* **Fail Criteria: -**
* Actual Requirements don't match with expected requirements.
* Time and budget are high.
* Application will not accept user acceptance.
* After launch the application major fault will generate by end user
* If system crash
* If a deadline is missed so that the client will not accept the product even if testing is completed.
* Consume more time.

1. **Suspension criteria: -**

* Requirements changed by the customer.
* The developer or tester may leave.
* Bugs or defects from the main modules that contain more time to fix.
* If the payment method does not work properly.
* Unavailability of external dependent systems.
* If there are any Software, Hardware or Network problems.
* If interdependent modules are not working properly.
* When any defect is introduced that can’t allow for further testing.
* If test resources are not available.
* If large volumes of bugs are found.
* When automation tools are crashed.
* When automation tools are not available in the company or configuration problem is created.

1. **test Deliverables: -**

* Test Plan
* A Test Scenario
* Effort Estimation Report
* Test Cases
* Test Data
* Bug Report
* Test Execution Report
* Test Summary Report
* Test Closure Report
* Release Note
* Weekly Status Report

1. **Testing Task: -**

| **Testing Phase** | **31 Days** | | | **Duration**  **(Days)** |
| --- | --- | --- | --- | --- |
| **1June-10 June** | **11 June-22June** | **23 june-1 july** |
| Test plans & Controlling |  |  |  | 1-4 |
| Design and Analysis |  |  |  | 5-11 |
| Test Execution |  |  |  | 12-28 |
| Report |  |  |  | 29-31 |

| **Task Name** | **Module** | **Effort (Day Required)** | **Start Date** | **End Date** | **Assign To** |
| --- | --- | --- | --- | --- | --- |
| Test Plan |  | 4 | 1/06/2023 | 4/06/2023 | Ajaysingh |
| Test Scenario |  | 2 | 5/06/2023 | 6/06/2023 | Krushna |
| Review | Sign Up | 1 | 7/06/2023 | 7/06/2023 | Jigar |
| Home Page | 7/06/2023 | 7/06/2023 | Trushali |
| Add Account | 12/06/2023 | 12/06/2023 | Mansi |
| Profile | 13/06/2023 | 13/06/2023 | Tushar |
| New Group | 14/06/2023 | 14/06/2023 | Bipin |
| New Secret Chat | 15/06/2023 | 15/06/2023 | Zarana |
| New Channel | 16/06/2023 | 17/06/2023 | Kamal |
| People Nearby | 18/06/2023 | 18/06/2023 | Zalak |
| Saved Massages | 19/06/2023 | 20/06/2023 | Dharmendra |
| Settings | 21/06/2023 | 21/06/2023 | Reena |
| Chat | 22/06/2023 | 22/06/2023 | Zeel |
| Telegram Features | 23/06/2023 | 23/06/2023 | Mansi Gandhi |
| Notification | 24/06/2023 | 24/06/2023 | Avani |
| Invite Friends |  | 25/06/2023 | 25/06/2023 | Zeel |
|  | Help |  | 26/06/2023 | 26/06/2023 | Priyanka |
| Test Cases |  | 2 | 27/06/2023 | 28/06/2023 | Kamal,  Zalak |
| Review |  | 1 | 29/06/2023 | 29/06/2023 | Krushna |
| Test case Execution |  | 10 | 30/06/2023 | 09/07/2023 | Ajaysingh |
| Bug Report |  | 3 | 08/07/2023 | 10/07/2023 | Trushali |
| Review |  | 3 | 11/07/2023 | 13/07/2023 | Mansi |
| Test Report |  | 1 | 15/07/2023 | 15/07/2023 | Tushar |

1. **: -Environment**

* **Software: -**
* Android version 7,8,9,10
* Browsers - Chrome, Mozilla, Safari, Microsoft Edge, Opera
* Automation Tools
* **Hardware: -**
* Laptop
* Desktop
* Mobile
* Mac
* iPad
* Internet Connection

1. **Hardware and Training: -**

* It shows the number of testers needed.
* Provide training if needed.

1. **Scheduling: -**

* Employee and Project deadline.
* Project Estimation.
* Create Test scenarios and Test cases.
* **Order of Testing: -**
* Smoke Testing
* Re-Testing
* Data-driven Testing
* Regression Testing (if require)
* Sanity Testing
* Performance Testing
* Installation Testing
* Interruption Testing
* Compatibility Testing
* Portability Testing
* Soak Testing
* Load Testing
* Security Testing
* Usability Testing
* Alpha Testing
* Beta Testing

1. **Risk: -**

* **Project Risk: -**
* It occurs during the project launch.
* Delay in the test build by the developer team.
* Defects that take much time to fix.
* The developer or project manager left the job.
* Requirements continuously change by customer.
* Server crash issue.
* Unavailability of the test environment.
* Delay in fixing defects by the development team.
* No advanced technology available or the existing technology is in the initial stages.
* **Product Risk: -**
* It occurs after the project launch.
* The product does not match the customer’s requirement.
* The Customer/User is not satisfied with the product.
* The budget crosses the limit of the set budget amount.
* The product is not run properly.
* Time limit, that makes developers work in a rush and commit more mistakes.
* The payment method or post module will not be working properly after launching the product.

**Test Plan Approval**

Test Plan is a document describing the software testing scope and activities. It is the basis for testing any software/product in the project. If the project has any changes it will be done by the assigned tester.

**Sign \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**