# **Master Test Plan**

## **1. Introduction**

### **1.2. Purpose**

The purpose of this plan is to guarantee all the functionalities of the application, to make tests in a modular way and to guarantee that the proposed acceptance criteria are met.

### **1.3. Intended Audience**

Potential audience groups would include:

* Test team
* Development team
* Project Management / PMO
* Stakeholders
* Quality Assurance
* Qa Lead
* Qa Automation

### **1.4. Test Phase Objectives**

-         Stabilize the test environment

-         Creation / Execution of Smoke tests in each delivery

-         Creation / Execution of test cases

-         Create / Run Regression Tests

-         Report / Tracking of Bugs found

-         Ensuring that all developed functions work to specification

-         Review with the Product Owner of the new functionalities

-         Run all UAT scripts to make sure they run correctly

-         Stable functionality testing automation

* Scripts / Framework Delivery

### **1.5. References**

#### **Requirements specifications**

Chatter: the Best Chat App

Epic: User Management

1. As a user, I would like to login into my account, so that I may browse my chats
   1. If i enter my credentials incorrectly, I am told `no account found`
   2. Once I enter my credentials, I am taken to the Home Page
2. As a new user, I would like to create an account so that I can chat with my friends
   1. Validate that my chosen username hasn't been used before
   2. Use a valid email
   3. Enter and confirm my password, by re-entering it i. Ensure my password is at least 16 characters
3. As a user who has forgotten her password, I would like to reset my password, so that I may log in again
   1. Enter my email, which is associated with my account
   2. Receive an email with a password reset link to my email
   3. Enter a new password for my account and be logged in
4. As a Chatter Admin, I would like to ensure that no foul language is used as a username
   1. All curse words are forbidden
5. As a user who would like to change my password
   1. Enter my current password to ensure it is me
   2. Enter and confirm my new password
   3. Email a confirmation that my password was changed
6. As a user, I would like a safe and secure experience while providing personally identifiable information to the chat application
   1. Enter a nick name, this nick name should be unic
      1. Validate that my chosen nick name hasn't been used before
   2. Enter my first name
      1. Validate that the name does not contain numbers
      2. Validate that the name does not contain special chars
      3. Validate that the name have unless 3 letters and max 10 letters
   3. Enter my last names
      1. Validate that the last name does not contain numbers
      2. Validate that the last name does not contain special chars
      3. Validate that the last name have unless 3 letters and max 10 letters
   4. Enter my phone number
      1. Validate that my phone number hasn't been used before
      2. Validate that the phone name have unless 7 numbers max 10 numbers
      3. Validate that this field only allows numeric values

Epic: User Chat System

1. As a user, I would like to start a message thread with a friend so that we may converse
   1. Select a user to chat with by
      1. browsing my existing list of friends using the app so that I may select one to start chatting with
      2. clicking on a pre-existing thread to resume that chat
   2. Allow me to type a message to my friend
      1. Allow emojis and current location to be sent
2. As a user, I would like to quick look at the history of my chat with my friend
   1. Show messages between us in chronological order
3. As a user, I would like to delete / correct a message in case I have sent something that needs to be corrected
   1. Allow inline message editing
4. As a user, when a friend sends me a message I would like to receive a notification alerting me to the new content
   1. Clicking on the notification would take me to that message and thread
5. As a Chatter Admin, I would like to ensure no offensive content makes it to thread
   1. All messages containing offensive words will be rejected from being sent
   2. Users may flag messages for offensive content to be moderate

### **1.6. Revision History**

Revision Author Date Comments

|  |  |  |
| --- | --- | --- |
| Author | Comments | Date |
| Edwin parra | Test plan creation | 10/19/2021 |

### **1.7. Test Plan Approvals**

* Project Management / PMO
* Stakeholders
* Quality Assurance

## **2. Scope and Test Approach**

### **2.1. Scope Inclusions**

The tests will be executed in:

-         The latest version of Google Chrome

-         Samsung Galaxy s20 FE

The test artifact has 2 roles, each role has its functionalities which will be tested and are described below:

1. Role: User management
   1. Login
   2. home
   3. User creation
   4. Recover password
   5. Password change
   6. Control foul language as a username
   7. Control offensive content to be moderate
2. Role: User chat system
   1. Search friends to chat
   2. Chat with users
   3. Chat history
   4. Edit messages
   5. Delete messages
   6. Message notifications
      1. Redirection Link to the current chat
   7. Notify messages offensive

### **2.2. Scope Exclusions**

1. The application will not be validated in all available browsers
2. The application will not be validated on all available mobile devices
3. Only tests will be done on the aforementioned functionalities
4. The scope of the test will be seen in the design of the test cases created

### **2.3. Test Phase Approach**

-         The test cases will be created in Testlink, they will be reviewed by the test team and executed by the same team

-         The execution of the test cases will be carried out in each regression or in the delivery of a new functionality

## **3. Quality Risks**

-         Feature A is being implemented with new technology

-         User adoption is critical and several UI screens were not prototyped during requirements or design

-         Requirements for feature M changed significantly during the design phase

## **4. Schedule and Resources**

### **4.1. Planned Schedule**

-         Sprint 1: Approval of test plan

-         Sprint 1-2-3-4: Development of test cases

-         Sprint 2-3-4: Development of automated test scripts

-         Sprint 1-3: Preparation of test environment

-         Sprint 1-2-3-4: Test execution dates

### **4.2. Required Resources**

-         stakeholders to sign off on the test case list

-         IT operations who need to maintain the test environment (s)

-         requirements analysts who may need to clarify documentation during test case development).

## **5. Test Phase Transition Criteria**

The following describe required criteria in order for testing to move from one state to another.

### **5.1. Entry Criteria**

-         Test plan approved

-         Test environment stable and ready

-         Test cases written and approved

-         Test tools ready

-         Previous test phase's exit criteria met

-         Test resources available

### **5.2. Exit Criteria**

-         Test case completion

-         Number and severity of open defects

### **5.3. Suspension Criteria**

-         Software is not ready for testing.

## **6. Test Environment and Configurations**

### **6.1. Test Environment**

We must have 3 environments:

-         Dev environment: This environment will be for the development team to ensure that your changes work correctly with the rest of your team

-         Qa environment: This environment will be for the tests of the test team to guarantee the new functionalities and solution of defects

-         Stage environment: A pre-production environment where automated test cases will be created since it is a pre-production environment

### **6.2. Test Configurations**

-         Browser: Google Chrome

-         Connection type (connected)

-         Mobile: Samsung S20 FE

## **7. Test Phase Execution**

### **7.1. Roles and Responsibilities**

-         Devops - Test environment support

-         Dev Team - Development

-         Qa lead - Test manager

-         PO - Project manager

-         Qa Team - Person producing test metrics

-         Qa Team - Approver (s) of test plan

-         Qa Team - Approver (s) of test scripts

-         Qa Lead - Approver (s) of test phase deliverables

### **7.2. Test Defect Tracking**

-         For reporting incidents, the Jira tool will be used

-         The states that will be used in the defects will be:

* All - Indicating that the defect is ready to start development for its solution
* In Progress - The developer is already working on their solution
* Ready to Qa - The developer integrated the new changes in the test environment
* In Qa - The test team is in charge by validating the changes
* Returned - The development does not comply with the solution and is returned to the developer for validation
* Done - The defect was fixed correctly

-         Classification:

* Minor - A cosmetic defect that can be prioritized once the main functionalities are integrated
* Middle - A defect that affects some process, but can be ignored or does not affect a point-to-point process
* High - A defect that affects operation and needs to be fixed soon
* Blocker - A defect that must be fixed immediately as it blocks part or all of the operation

### **7.3. Release Management**

-         The development team will be in charge of making peer reviews to deploy the code to the test environment.

-         Each developer will be in charge of uploading the developed code once it has been approved.

-         The notification of this deployment will be in charge of the development team and the Devops

-         The developer who owns your development will notify the test team to inform them of the updates

### **7.4. Planned Test Iterations**

The planned attempt is 4 sprints of 1 week each.

-         Sprint 1:

* Delivery of test cases and start of execution
  + Incident report
* Creation of the automation framework

-         Sprint 2:

* Start automation of initial test cases
* Review of incidents found
* Execution of the first Regression
* Deployment to previous environments

-         Sprint 3:

* Previous validations for a deployment to production
* Integration of automated testing into continuous deployment

-         Sprint 4:

* Deployment to production
* Validation and control of any incident that occurs in production
* Review of incidents found
* Regression tests
* Delivery of all automated test cases

### **7.5. Planned Test Hours**

This plan is planned to start on October 25, 2021 with a total of 20 business days, a total of 180 hours.

## **8. Test Phase Deliverables and Metrics**

### **8.1. Deliverables**

-         Qa team: Creating test cases in TestLink

-         Qa Lead: Test Execution Statistics Document

-         Qa Automation: Creation of the Automation Framework

List all deliverables for this test phase, along with who is responsible for producing each one.

### **8.2. Metrics**

-         The execution of the tests will be monitored to know the speed, number of reported errors and daily progress, which will be delivered via email to all those involved in the project.

-         The progress of the execution of the tests will be carried out in the TestLink tool

-         The person in charge of sending this email will be the Qa Lead

* The report will be sent at 6pm

-         The test team will send the execution status before 6pm

## **9. Risks and Contingencies**

-         Loss of key test personnel

* Acquisition of the new one

-         Inexperienced personnel

* Trainning and mentoring

-         Possibility of catastrophic failure to the test environment

* Information Backups

-         Overly demanding test Schedule

* Review the speed of the team and any blockers

-         New / un-proven testing tools

* Proud of concepts