**ASTANA IT UNIVERSITY**

**SOFTWARE QUALITY ASSURANCE**

**Test Reporting and Documentation**

**CHAT APP TESTING**

**Project:** Chat App Testing

**Test Phase:** Quality Assurance

**Version:** 1.0

**Date Prepared:** 12.06.2023

**Prepared By:** Aruzhan Amangeldi, Beibaryssultan Aitbay

**Reviewed By:** Tleubayeva A.O.

**Last Updated:** 14.06.2023

**Last Updated By:** Aruzhan Amangeldi

**Link from Roadmap:** [link](https://alie164.atlassian.net/jira/software/c/projects/CAT/boards/5/roadmap?shared=&atlOrigin=eyJpIjoiNTlkODBkMzZhY2QxNDM4ODlkYzRkZTM3MDdmNzRjNmQiLCJwIjoiaiJ9)

**Link to the Github repository:** [link](https://github.com/whyne164/chatapp_sqa)

**Astana, 2023**

**Test Execution Summary:**

* Date: June 14, 2023
* Testing Duration: 3 days
* Test Environment:
  + App: Android Studio, Appium, WebdriverIO
  + Operating System: Windows 10
  + Hardware: AMD RYZEN5, 16GB RAM
* **Test Requirements Executed:**

| **Requirement ID** | **Requirement Description** | **Test Cases Executed** | **Test Case Status** |
| --- | --- | --- | --- |
| CAT-REQ-001 | Users should be able to registrate or login using valid data | CAT-1, CAT-3, CAT-24, CAT-26 | Passed |
| CAT-REQ-002 | App should has adaptive, UX/UI design | CAT-10, CAT-20, CAT-27, CAT-28 | Passed |
| CAT-REQ-003 | Chat app should support one-on-one messaging | CAT-11, CAT-19, CAT-23, CAT-26 | Passed |
| CAT-REQ-004 | Chat app should support group messaging | CAT-19, CAT-21, CAT-23, CAT-26 | Passed |
| CAT-REQ-005 | Users should be able to make calls | CAT-22 | Passed with restrictions |
| CAT-REQ-006 | Chat app should be able to handle errors | CAT-25 | Passed |
| CAT-REQ-007 | App should support localization | CAT-26 | Passed |

* **Test Cases Executed:**

| **Test Case ID** | **Description** | **Status** |
| --- | --- | --- |
| CAT-1 | User login with provided account | Pass |
| CAT-3 | User login using UID | Pass |
| CAT-10 | Checking card component | Pass |
| CAT-11 | Checking conversation component | Pass |
| CAT-19 | Checking messages component | Pass |
| CAT-20 | Checking Users component | Pass |
| CAT-21 | Checking Groups component | Pass |
| CAT-22 | Checking Calls component | Passed with restrictions |
| CAT-23 | Checking Shared component | Pass |
| CAT-24 | Checking Logout button | Pass |
| CAT-25 | No Internet error handling | Pass |
| CAT-26 | Using the Russian in registration and messaging | Pass |
| CAT-27 | Checking adaptive design | Pass |
| CAT-28 | The UX/UI design | Pass |

**Test Execution Results:**

* Total Test Cases Executed: 14
* Passed: 13
* Failed: 1
* Test Coverage: 92.8%

**Test Findings:**

| **Defect ID** | **Description** | **Severity** | **Steps to Reproduce** | **Actual Results** | **Expected Results** | **Status** | **Assigned To** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| DEF001 | Unable to call other users except one | High | Change the code details | User can call only user named Cyclops | User can call anyone | Open | Beibaryssultan |

**Recommendations:**

1. Enhance Call Functionality: Since we identified that the app only supports calling one user, a recommendation would be to expand the calling functionality.

2. Enable Message Moderation and Filtering: Introduce moderation and filtering capabilities to the Chat app, allowing users to manage and control the content they receive. This feature can include options for blocking or reporting inappropriate messages, filtering out spam or offensive content, and giving users more control over their messaging experience.

3. Improve User Story Implementation: User stories play a crucial role in capturing and communicating user requirements, guiding the development process, and ensuring that the final product meets user expectations.

**Test Summary:**

The test execution of the Chat app was mostly successful, achieving a high test coverage of 92.8%.

One defect was identified during testing: one medium-severity data inconsistency. This issue requires further investigation and resolution to ensure the functionality of the application.

Recommendations have been provided to address the identified issues and improve the overall quality and performance of the application.

**Test Documentation Organization:**

All test documentation is stored in the designated "Chat App" folder within the GitHub project repository. The documentation is organized as follows:

- Test Plans: Contains the detailed plans and strategies for testing the Chat app.

- Test Requirements: Specifies the functional and non-functional requirements that the Chat app must fulfill.

- Test Cases: Includes the individual test cases with their steps, expected results, and actual results.

- Test Reports: Documents the outcomes of the test execution, including any issues, defects, and test coverage.

**Test Completion and Evaluation:**

Upon completion of the test cases for the CometChat Kitchen Sink Sample App, it is essential to conduct a thorough review of the test execution outcomes and evaluate the testing process. The following steps should be followed:

1. Review the Test Execution Results: Compare the actual test results with the expected outcomes specified in the test cases. Validate that all test cases have been executed and determine if any failures or discrepancies occurred during the testing phase.

2. Analyze Issues and Defects: Evaluate the issues and defects identified during testing, considering their severity and impact on the Chat app. Prioritize them based on their potential risks and the criticality of their effect on the system.

3. Assess the Effectiveness of Testing: Reflect on the overall effectiveness of the testing process, taking into account factors such as test coverage, stability of the test environment, adherence to test plans, and the efficiency of defect tracking and resolution. Identify areas that could be improved or potential bottlenecks in the testing workflow.

4. Generate the Final Test Report: Summarize the testing activities, findings, and recommendations in a comprehensive test report. Include details about the test execution results, identified defects, test coverage, and an overall assessment of the testing process. Provide actionable recommendations for addressing the identified issues and enhancing the quality and performance of the Chat app.

By following these steps, you can gain insights into the test execution outcomes, identify areas for improvement, and generate a comprehensive report that outlines the testing activities and recommendations for further enhancement.

**Test Completion Summary:**

* - Total Test Cases Executed: 14
* - Passed: 13
* - Failed: 1
* - Defects Identified: 1
* - Test Coverage: 92.8%
* - Testing Duration: 3 days

**Test Reporting and Documentation Sign-off:**

Tester: Aruzhan Amangeldi, Beibaryssultan Aitbay Date: 13.06.2023

Project Manager: Amangeldi Aruzhan Date: 13.06.2023

**Test Documentation Organization:**

1. Test Plans: [link](https://docs.google.com/document/d/1t8SNcHTW-vnKQUVv_yjJLrmpljM662yMZ7_AvIUmEZA/edit?usp=sharing)

2. Test Requirements: [link](https://docs.google.com/document/d/1Ctn2RHS4qL0FxZZwRf8Od8zKglc1E2D0RRXEDpVbQS0/edit?usp=sharing)

3.Test Cases: [link](https://docs.google.com/document/d/11IyqcwmoMCjmoXK5I7ndwSJGcz_ab3YDMO5k_IctpkY/edit?usp=sharing)