BlinkID

Software Test Document (STD)

Version 1.0

Document Preparation

|  |  |  |  |
| --- | --- | --- | --- |
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| Dheeraj Chiguripati | Test Engineer | Dheeraj Chiguripati | 04/08/2024 |
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Revision History

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Version** | **Description** | **Author** |
| 03/29/2024 | 1.0 | The first draft. | Dheeraj Chigurupati03 |
| 04/08/2024 | 2.0 | Added test new cases | Chethan Reddy Mallu |

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Software Test Documentation

# Introduction

## Purpose of the Document

This document aims to provide a thorough overview of the software design elements of the Blink ID project. It serves as a detailed guide to understanding the architecture, features, and technical implementation of the Blink ID application.

## Scope of the Document

The Software Test Document (STD) describes the strategy and goals of software testing for the BlinkId application. It covers the scope of testing, including product scope, test planning responsibilities and schedule, test preparation and environment setup, and test cases, among other aspects.

## References

1. Android Developers: Official documentation for Android app development, available at https://developer.android.com/docs.

2. Java SE: Official documentation for Java Standard Edition development, accessible at https://docs.oracle.com/en/java/javase/.

3. Spring Framework: Java-based framework for building web applications, detailed at https://spring.io/.

4. Stripe: Payment processing platform for accepting donations, documentation provided at https://stripe.com/docs/api.

5. Firebase: Backend platform for mobile and web applications, resources available at https://firebase.google.com/docs.

6. JavaServer Pages (JSP): Java technology for building dynamic web pages, information provided by Oracle at https://www.oracle.com/java/technologies/jsptech.html.

7. Java Database Connectivity (JDBC): Java API for connecting to databases, documentation available at https://docs.oracle.com/javase/tutorial/jdbc/.

8. JUnit: Java testing framework, information accessible at https://junit.org/junit5/.

9. Apache Maven: Build automation tool for Java projects, detailed documentation at https://maven.apache.org/.

10. Gradle: Build automation tool for Java projects, resources provided at https://gradle.org/.

## Definitions, Acronyms, and Abbreviations

See Appendix A.

# Product Scope

The product scope for Blink ID encompasses the development of a user-friendly application tailored for efficient biometric authentication and recognition within a university or college campus environment. It aims to provide seamless functionalities for verifying student identities, enhancing campus security, and regulating access to various facilities.

# Test Planning

## Responsibilities

|  |  |  |
| --- | --- | --- |
| **Role** | **Name** | **Responsibilities** |
| Test Engineer | Dheeraj Chigurupati | Prepares the test cases under the direction of the test manager. |
| Developer | Sriharsha Lanka | Supports the test engineers during the tests. Fixes the defects/bugs if identified during tests. Stay in the loop for the testing process. |
| Test Manager | Shiva Kumar Goud Shankaragari | Plans and coordinates all testing activities. Manages the testing team and test engineers. Take corrective action related to the testing activities if needed. Informs the project manager and technical manager regarding the test progress. |
| Customer/ User Representative | Varun Vanaparthi | Approves software test document, reviews test cases, and supports the testing process if possible. |
| Requirements Manager | Himaadithi Lethakula | Approves software test document, reviews test cases, and support the testing process if possible. |
| Technical Manager | Venkata Sai Ramya Padmasri Boggaram | Ensures that all teams (project team members) work in tandem to achieve a successful testing process. |

## Test Schedule

|  |  |  |
| --- | --- | --- |
| **Test Case** | **Scheduled Date** | **Actual Date / Duration** |
| TC-1 | 03/20/2024 | 03/05/2024 – 1 hour |
| TC-2 | 03/20/2024 | 03/07/2024 - 3 hours |
| TC-3 | 03/21/2024 | 03/07/2024 - 3 hours |
| TC-4 | 03/21/2024 | 03/08/2024 - 2 hours |
| TC-5 | 03/24/2024 | 03/07/2024 - 2 hour |
| TC-6 | 03/20/2024 | 03/05/2024 – 1 hour |
| TC-7 | 03/20/2024 | 03/07/2024 - 3 hours |
| TC-8 | 03/20/2024 | 03/05/2024 – 1 hour |
| TC-9 | 03/20/2024 | 03/07/2024 - 3 hours |
| TC-10 | 04/21/2024 | 04/07/2024 - 3 hours |
| TC-11 | 04/21/2024 | 04/08/2024 - 2 hours |
| TC-12 | 04/24/2024 | 04/07/2024 - 2 hour |
| TC-13 | 04/20/2024 | 04/05/2024 – 1 hour |
| TC-14 | 04/20/2024 | 04/07/2024 - 3 hours |
| TC-15 | 04/20/2024 | 04/05/2024 – 1 hour |
| TC-16 | 04/20/2024 | 04/07/2024 - 3 hours |
| TC-17 | 04/21/2024 | 04/07/2024 - 3 hours |
| TC-18 | 04/21/2024 | 04/08/2024 - 2 hours |

# 

# Test Preparation

## Test Environment

The test will run on an Android phone with the latest operating system version. The application is installed on the phone. The testing location includes a controlled testing environment to avoid external interferences, and an internet connection to test the application's online features. No special equipment is needed. No additional testing software will be used.

# Test Cases

## Test Cases

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Test Case Name** | **Description** |
| TC-1 | Login Test | This test case verifies various successful and unsuccessful login scenarios. |
| TC-2 | User Interface Test | This test case verifies that dashboard user interface elements work as intended. |
| TC-3 | Student Creation Test | This test case verifies various successful and unsuccessful student creation scenarios. |
| TC-4 | Exam Creation Test | This test case verifies various successful and unsuccessful exam creation scenarios. |
| TC-5 | Group Creation Test | This test case verifies various successful and unsuccessful group creation scenarios. |
| TC-6 | Add student to Exam | This test case verifies various successful and unsuccessful student creation scenarios. |
| TC-7 | Delete entire exam | This test case verifies various successful and unsuccessful student creation scenarios. |
| TC-8 | Group creation test | This test case verifies various successful and unsuccessful group creation scenarios. |
| TC-9 | Group deletion test | This test case verifies various successful and unsuccessful group deletion scenarios. |
| TC-10 | Add students to group | This test case verifies various successful and unsuccessful student addition scenarios. |
| TC-11 | Successful Authentication of students in exams | This test case verifies various successful student Authentication scenarios in exams |
| TC-12 | Successful Authentication of students in groups | This test case verifies various successful student Authentication scenarios in Groups. |
| TC-13 | Unsuccessful authentication of students in exams | This test case verifies various unsuccessful student Authentication scenarios in exams. |
| TC-14 | Unsuccessful authentication of student in groups | This test case verifies various unsuccessful student Authentication scenarios in Groups. |
| TC-15 | Student creation in Teacher Dashboard | This test case for list of students list in teacher dashboard. |
| TC-16 | Student creation in Staff Dashboard | This test case for list of students list in Staff dashboard. |
| TC-17 | Logout test in teacher dashboard | This test case verifies various successful and unsuccessful logout scenarios. |
| TC-18 | Logout test in staff dashboard | This test case verifies various successful and unsuccessful logout scenarios. |

# Appendix A – Test Case to Requirements Traceability

|  |  |
| --- | --- |
| **Test Case ID** | **Requirement ID** |
| TC-1 | Req-Func-BID-1  Req-Func-Hw-2  Req-Qual-4  Req-Qual-5 |
| TC-2 | Req-Func-BID-2  Req-Func-BID-3  Req-Func-BID-1  Req-Func-BID-2  Req-Qual-Hw-5  Req-Qual-1  Req-Qual-4 |
| TC-3 | Req-Func-BID-9  Req-Func-BID-10  Req-Func-Hw-3  Req-Func-Hw-5  Req-Qual-2  Req-Qual-3 |
| TC-4 | Req-Func-BID-4  Req-Func-Hw-5  Req-Qual-1 |
| TC-5 | Req-Func-BID-6  Req-Func-BID-7  Req-Qual-Hw-5  Req-Qual-3 |
| TC-6 | Req-Func-BID-2  Req-Func-BID-12  Req-Qual-Hw-3  Req-Qual-2 |
| TC-7 | Req-Func-BID-5  Req-Func-BID-11  Req-Qual-Hw-3  Req-Qual-3 |
| TC-8 | Req-Func-BID-4  Req-Func-BID-10  Req-Qual-Hw-1  Req-Qual-4 |
| TC-9 | Req-Func-BID-8  Req-Func-BID-3  Req-Qual-Hw-4  Req-Qual-3 |
| TC-10 | Req-Func-BID-9  Req-Func-BID-4  Req-Qual-Hw-2  Req-Qual-1 |
| TC-11 | Req-Func-BID-2  Req-Func-BID-7  Req-Qual-Hw-1  Req-Qual-3 |
| TC-12 | Req-Func-BID-6  Req-Func-BID-3  Req-Qual-Hw-4  Req-Qual-2 |
| TC-13 | Req-Func-BID-4  Req-Func-BID-1  Req-Qual-Hw-1  Req-Qual-5 |
| TC-14 | Req-Func-BID-3  Req-Func-BID-9  Req-Qual-Hw-3  Req-Qual-4 |
| TC-15 | Req-Func-BID-5  Req-Func-BID-8  Req-Qual-Hw-2  Req-Qual-2 |
| TC-16 | Req-Func-BID-6  Req-Func-BID-2  Req-Qual-Hw-1  Req-Qual-1 |
| TC-17 | Req-Func-BID-5  Req-Func-BID-1  Req-Qual-Hw-4  Req-Qual-5 |
| TC-18 | Req-Func-BID-3  Req-Func-BID-11  Req-Qual-Hw-1  Req-Qual-2 |

# 

# Appendix B – Test Case 1 – Login Test

|  |  |
| --- | --- |
| **Test Case ID** | TC-1 |
| **Test Case Name** | Login Test |
| **Brief Description** | This test case verifies various successful and unsuccessful login scenarios. |
| **Planned Test Duration** | 1 hour |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/20/2024 |
| **Created By** | Sai Charan Kammampally |
| **Last Update By** | Akash Rao Sudati |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 1 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application. | The application starts running. | Pass |
| 2 | Type a name in the login box that is not in the database and click on the login button | The system displays “ Login Failed: Please enter a valid email and password”. | Pass |
| 3 | Type a name in the login box along with password that is in the database and click on the login button | The system displays “ Login Successful”. | Pass |
| 4 | Type an incorrect password for this user and click on the login button | The system displays “Login Failed: Bad Credentials”. | Pass |
| 5 | Type the correct password for the user and click on the login button | The system accepts the login and opens the dashboard. | Pass |

# Appendix C – Test Case 2 – User Interface Test

|  |  |
| --- | --- |
| **Test Case ID** | TC-2 |
| **Test Case Name** | User Interface Test |
| **Brief Description** | This test case verifies that dashboard user interface elements work as intended. |
| **Planned Test Duration** | 3 hours |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/20/2024 |
| **Created By** | Sriharsha Lanka |
| **Last Update By** | Vyshnavi Balabhadruni |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 2 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the dashboard. | The system displays the dashboards. | Pass |
| 4 | Verify that the dashboard displays information. | The system displays with accurate information | Pass |
| 5 | For Student dashboard, student should see the exam details that he/she involved. | The search functionality should work correctly, allowing the user to quickly find a specific donation | Pass |
| 6 | For Teacher dashboard,  Teacher Should see the information of exams and student lists. | The "like" button change to indicate that the user has liked the donation, the like count increase by one | Pass |
| 7 | For staff dashboard, staff should see the groups and student lists and should be able to add students. | The system displays the comments on the fundraising campaigns | Pass |

# Appendix D – Test Case 3 – Student Creation Test in Teacher Dashboard

|  |  |
| --- | --- |
| **Test Case ID** | TC-3 |
| **Test Case Name** | Student Creation Test in teacher dashboard |
| **Brief Description** | This test case verifies various successful and unsuccessful student creation scenarios. |
| **Planned Test Duration** | 3 hours |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Ritheesh Reddy Gavva |
| **Last Update By** | Mounika Reddy Dubba |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 3 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid teacher user ID | The system accepts valid login credentials and logs the teacher in. | Pass |
| 3 | Teacher clicks on “Add student” button in the Dashboard | Teacher can see the list of all students enrolled in her course. | Pass |
| 4 | Teacher can add new student using Add student | The user can fill out the necessary fields to create a student. | Pass |
| 5 | Add a relevant image to the student profile. | The user can add a relevant image to the student profile | Pass |
| 6 | Add the student detail using Add student | The user can successfully add the new student. | Pass |
| 7 | Verify that the student is successfully created | The user can see the student information. | Pass |

# Appendix E – Test Case 4 – Student Creation Test in Staff Dashboard

|  |  |
| --- | --- |
| **Test Case ID** | TC-4 |
| **Test Case Name** | Student Creation Test in staff dashboard |
| **Brief Description** | This test case verifies various successful and unsuccessful student creation scenarios. |
| **Planned Test Duration** | 3 hours |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Ritheesh Reddy Gavva |
| **Last Update By** | Mounika Reddy Dubba |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 3 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid Staff user ID | The system accepts valid login credentials and logs the staff in. | Pass |
| 3 | Staff click on “student list” button in the Dashboard | Student can see the list of all students enrolled in her course. | Pass |
| 4 | Staff can add new student using Add student | The user can fill out the necessary fields to create a student. | Pass |
| 5 | Add a relevant image to the student profile. | The user can add a relevant image to the student profile | Pass |
| 6 | Add the student detail using Add student | The user is able to successfully add the new student. | Pass |
| 7 | Verify that the student is successfully created | The user is able to see the student information. | Pass |

# Appendix F – Test Case 5 – Exam Creation Test

|  |  |
| --- | --- |
| **Test Case ID** | TC-5 |
| **Test Case Name** | Exam Creation Test |
| **Brief Description** | This test case verifies various successful and unsuccessful student creation scenarios. |
| **Planned Test Duration** | 2 hour |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Chethan Reddy Mallu |
| **Last Update By** | Venkata Sai Ramya Padmasri Boggaram |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 5 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the user profile page. | The user profile appears | Pass |
| 4 | Add exam using Add exam in teacher dashboard | The system displays all the needed exam details to be filled to create new exam | Pass |
| 5 | Tap the "exams" button and select the students to be added to the created exam. | The user is able to add student to the exams | Pass |

# Appendix G – Test Case 6 – Add students to Exam

|  |  |
| --- | --- |
| **Test Case ID** | TC-6 |
| **Test Case Name** | Add students to Exam |
| **Brief Description** | This test case verifies various successful and unsuccessful student creation scenarios. |
| **Planned Test Duration** | 2 hour |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Chethan Reddy Mallu |
| **Last Update By** | Venkata Sai Ramya Padmasri Boggaram |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 6 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the user profile page. | The user profile appears | Pass |
| 4 | Tap the "exams" button and select the students to be added to the created exam. | The system displays all the exam details created. | Pass |
| 5 | Tap the + button and select the students to be added to the created exam. | The user is able to add student to the exams | Pass |

# Appendix H – Test Case 7 – Delete entire Exam

|  |  |
| --- | --- |
| **Test Case ID** | TC-7 |
| **Test Case Name** | Delete entire Exam |
| **Brief Description** | This test case verifies various successful and unsuccessful student creation scenarios. |
| **Planned Test Duration** | 2 hour |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Chethan Reddy Mallu |
| **Last Update By** | Venkata Sai Ramya Padmasri Boggaram |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 7 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the user profile page. | The user profile appears | Pass |
| 4 | Tap the "exams" button | The system displays all the exam details created. | Pass |
| 5 | Tap the trash button to delete created exam. | The Exam should be deleted and user goes back to page where all created exams are shown. | Pass |

# Appendix I – Test Case 8 – Group creation Test

|  |  |
| --- | --- |
| **Test Case ID** | TC-8 |
| **Test Case Name** | Group Creation Test |
| **Brief Description** | This test case verifies various successful and unsuccessful group creation scenarios. |
| **Planned Test Duration** | 2 hours |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/24/2024 |
| **Created By** | Shiva Kumar Goud Shankaragari |
| **Last Update By** | Himaadithi Lethakula |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 8 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the user profile page. | The user profile appears | Pass |
| 4 | Add groups using “Add group” in staff dashboard | The system displays all the needed group details to be filled to create new group | Pass |
| 5 | Tap the "groups" button and select the students to be added to the created group. | The user can add student to the groups | Pass |

# Appendix J – Test Case 9 – Group deletion Test

|  |  |
| --- | --- |
| **Test Case ID** | TC-9 |
| **Test Case Name** | Group deletion Test |
| **Brief Description** | This test case verifies various successful and unsuccessful group creation scenarios. |
| **Planned Test Duration** | 2 hours |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/24/2024 |
| **Created By** | Shiva Kumar Goud Shankaragari |
| **Last Update By** | Himaadithi Lethakula |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 9 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the user profile page. | The user profile appears | Pass |
| 4 | Tap the "groups" button | The user can see all the groups he created | Pass |
| 5 | Tap the "trash" button | The exam will be deleted and user will be redirected to groups page. | Pass |

# Appendix K – Test Case 10 – Add students to Groups

|  |  |
| --- | --- |
| **Test Case ID** | TC-10 |
| **Test Case Name** | Add students to Groups |
| **Brief Description** | This test case verifies various successful and unsuccessful student addition scenarios. |
| **Planned Test Duration** | 2 hour |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Chethan Reddy Mallu |
| **Last Update By** | Venkata Sai Ramya Padmasri Boggaram |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 10 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the user profile page. | The user profile appears | Pass |
| 4 | Tap the “groups" button | The system displays all the groups details created. | Pass |
| 5 | Select the group to which you want the student to add | The user should see exam details along with already added students | Pass |
| 6 | Tap the + button and select the students to be added to the created groups | The user can add student to the exams | Pass |

# Appendix L – Test Case 11 – Successful Authentication of students in Exams

|  |  |
| --- | --- |
| **Test Case ID** | TC-11 |
| **Test Case Name** | Successful Authentication of students in Exams |
| **Brief Description** | This test case verifies various successful student Authentication scenarios in exams. |
| **Planned Test Duration** | 2 hour |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Chethan Reddy Mallu |
| **Last Update By** | Venkata Sai Ramya Padmasri Boggaram |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 11 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the user profile page. | The user profile appears | Pass |
| 4 | Tap the "exams" button and select the students to be added to the created exam. | The system displays all the exam details created. | Pass |
| 5 | Tap the + button and select the students to be added to the created exam. | The user is able to add student to the exams | Pass |
| 6 | Tap the student you want to authenticate. | The user can see the student validation page along with student authentication history. | pass |
| 7. | Tap on “validate student” button | The user can see that camera opens. | Pass |
| 8. | Click a photo of the student | The user can see the students authentication is successful and result is updated in authentication history | Pass |

# Appendix M – Test Case 12 – Successful Authentication of students in Groups

|  |  |
| --- | --- |
| **Test Case ID** | TC-12 |
| **Test Case Name** | Successful Authentication of students in Groups |
| **Brief Description** | This test case verifies various successful student Authentication scenarios in Groups. |
| **Planned Test Duration** | 2 hour |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Chethan Reddy Mallu |
| **Last Update By** | Venkata Sai Ramya Padmasri Boggaram |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 12 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the user profile page. | The user profile appears | Pass |
| 4 | Tap the "Groups" button and select the students to be added to the created Groups. | The system displays all the group details created. | Pass |
| 5 | Tap the + button and select the students to be added to the created Groups. | The user is able to add student to the group. | Pass |
| 6 | Tap the student you want to authenticate | The user can see the student validation page | pass |
| 7 | Tap on “validate student” button | The user can see that camera opens. | Pass |
| 8 | Click a photo of the student | The user can see the students authentication is successful | Pass |

# Appendix N – Test Case 13 – Unsuccessful Authentication of students in Exams

|  |  |
| --- | --- |
| **Test Case ID** | TC-13 |
| **Test Case Name** | Unsuccessful Authentication of students in Exams |
| **Brief Description** | This test case verifies various Unsuccessful student Authentication scenarios in exams. |
| **Planned Test Duration** | 2 hour |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Chethan Reddy Mallu |
| **Last Update By** | Venkata Sai Ramya Padmasri Boggaram |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 13 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the user profile page. | The user profile appears | Pass |
| 4 | Tap the "exams" button and select the students to be added to the created exam. | The system displays all the exam details created. | Pass |
| 5 | Tap the + button and select the students to be added to the created exam. | The user is able to add student to the exams | Pass |
| 6 | Tap the student you want to authenticate. | The user can see the student validation page along with student authentication history. | pass |
| 7. | Tap on “validate student” button | The user can see that camera opens. | Pass |
| 8. | Click a photo of the student | The user can see the students authentication is successful and result is updated in authentication history | Pass |

# Appendix O – Test Case 14 – Unsuccessful Authentication of students in Groups

|  |  |
| --- | --- |
| **Test Case ID** | TC-14 |
| **Test Case Name** | UnSuccessful Authentication of students in Groups |
| **Brief Description** | This test case verifies various unsuccessful student Authentication scenarios in Groups. |
| **Planned Test Duration** | 2 hour |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Chethan Reddy Mallu |
| **Last Update By** | Venkata Sai Ramya Padmasri Boggaram |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 14 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid user ID | The system accepts valid login credentials and logs the user in. | Pass |
| 3 | Navigate to the user profile page. | The user profile appears | Pass |
| 4 | Tap the "Groups" button and select the students to be added to the created Groups. | The system displays all the group details created. | Pass |
| 5 | Tap the + button and select the students to be added to the created Groups. | The user is able to add student to the group. | Pass |
| 6 | Tap the student you want to authenticate | The user can see the student validation page | pass |
| 7 | Tap on “validate student” button | The user can see that camera opens. | Pass |
| 8 | Click a photo of the student | The user can see the students unsuccessful authentication and will be redirected to exam page. | Pass |

# Appendix P – Test Case 15 – Students list Test in Teacher Dashboard

|  |  |
| --- | --- |
| **Test Case ID** | TC-15 |
| **Test Case Name** | Student Creation Test in teacher dashboard |
| **Brief Description** | This test case for list of students list in teacher dashboard. |
| **Planned Test Duration** | 3 hours |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Ritheesh Reddy Gavva |
| **Last Update By** | Mounika Reddy Dubba |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 15 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid teacher user ID | The system accepts valid login credentials and logs the teacher in. | Pass |
| 3 | Teacher click on “student list” button in the Dashboard | Teacher can see the list of all students enrolled in her course. | Pass |

# Appendix Q – Test Case 16 – Student Creation Test in Staff Dashboard

|  |  |
| --- | --- |
| **Test Case ID** | TC-16 |
| **Test Case Name** | Student Creation Test in staff dashboard |
| **Brief Description** | This test is created for staff dashboard to test students creation. |
| **Planned Test Duration** | 3 hours |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Ritheesh Reddy Gavva |
| **Last Update By** | Mounika Reddy Dubba |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 16 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid Staff user ID | The system accepts valid login credentials and logs the staff in. | Pass |
| 3 | Staff click on “student list” button in the Dashboard | Student can see the list of all students enrolled in her course. | Pass |

# Appendix R – Test Case 17 – Logout Test in Teacher Dashboard

|  |  |
| --- | --- |
| **Test Case ID** | TC-17 |
| **Test Case Name** | Logout Test in teacher dashboard |
| **Brief Description** | This test case verifies various successful and unsuccessful logout scenarios. |
| **Planned Test Duration** | 3 hours |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Ritheesh Reddy Gavva |
| **Last Update By** | Mounika Reddy Dubba |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 17 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid teacher user ID | The system accepts valid login credentials and logs the teacher in. | Pass |
| 3 | Teacher click on “logout” button in the Dashboard | The user can see the confirmation popup for logging out. | Pass |
| 4 | Teacher click on “ok” in confirmation popup | The user can see him getting log out. | pass |
| 5 | Teacher click on “cancel” in confirmation popup | The user will be redirected to dashboard again. | pass |

# Appendix S – Test Case 18 – Logout Test in Staff Dashboard

|  |  |
| --- | --- |
| **Test Case ID** | TC-18 |
| **Test Case Name** | Logout Test in staff dashboard |
| **Brief Description** | This test case verifies various successful and unsuccessful logout scenarios. |
| **Planned Test Duration** | 3 hours |
| **Current Version** | 1.1 |
| **Date of Last Version** | 03/21/2024 |
| **Created By** | Ritheesh Reddy Gavva |
| **Last Update By** | Mounika Reddy Dubba |
| **Approved By** | Varun Vanaparthi |
| **The version of Software Under Test** | 1.1 |
| **Test Engineer to Conduct the Test** | Dheeraj Chigurupati |
| **List of Test Support Software** | N/A |
| **List of Test Support Hardware** | N/A |

**Test Case 18 Scenario**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Step Number | Input | Expected | Result (Pass/Fail) |
| 1 | Run the application | The application starts running. | Pass |
| 2 | Login using valid Staff user ID | The system accepts valid login credentials and logs the staff in. | Pass |
| 3 | Staff click on “logout” button in the Dashboard | The user can see the confirmation popup for logging out. | Pass |
| 4 | Staff click on “ok” in confirmation popup | The user will be logged out. | pass |
| 5 | Staff click on “cancel” in confirmation popup | The user will be redirected to dashboard again. | pass |