Senior Design Project – Group 3 User Acceptance Testing (UAT) Report

1. Project Information

Project Name: Facial Recognition Attendance System (FRAS)

Team Name: Group 3
Client/Instructor: Professor Diana Rabah
Date: October 21, 2025

2. Summary of Testing Process

User Acceptance Testing (UAT) was conducted from October 13–19, 2025 using both in-person sessions at the UNT campuses in Denton and Frisco, and remote testing through Chrome and Safari browsers on Windows and Mac devices.

Our UAT focused on the end-user verification of the system. Participants in our tests included 8 users, two teaching assistants and six students, all of which played one of the following roles: instructor, student, or administrator.

Each tester was guided through pre-designed test cases that covered workflows respective to the role. At the end, testers were allowed to freely navigate the system in an attempt to discover any unseen bugs and to "break" the system.

Testing Environment:

- Windows 11, macOS, Chrome, Safari

Users following the student role tested the following processes:

- Login/Logout

- Attendance Recording

- View Attendance History

- View Notifications

- Dark/Light Mode

Users following the instructor role tested the following processes:

- Login/Logout

- View/Manage Student Attendance by Class

- Export Class Attendance Record

- View Notifications

- Dark/Light Mode

Users following the administrator role tested the following processes:

- Login/Logout

- Add User

- Edit User

- Delete User

- Add Class

- Edit Class

- Delete Class

- Dark/Light Mode

3. Test Results

Test Case ID	Description	Expected Result	Actual Result	Pass/Fail	Notes
TC-01	Valid Username and Password	Redirects to correct dashboard	Works as expected	Pass	Verified on Chrome/Safari browsers
TC-02	Invalid Login Credentials	Displays 'Invalid credentials'	Works as expected	Pass	Verified on Chrome/Safari browsers
TC-03	Logout	Returns to login screen	Works as expected	Pass	N/A
TC-04	Facial Recognition – Successful Match	Confirmation/Pending message shown	Works as expected	Pass	~4s recognition processing time
TC-05	Facial Recognition – Unrecognized Face	Displays "Face not recognized"	Works as expected	Pass	N/A
TC-06	Manual Attendance Modification	Record updated and logged	Works as expected	Pass	N/A

TC-07	Instructor – View Classes	Displays correct class list	Works as expected	Pass	N/A
TC-08	Instructor – View Class Attendance	Shows accurate table/chart	Works as expected	Pass	N/A
TC-09	Student – View Own Attendance	Displays own records only	Works as expected	Pass	N/A
TC-10	Reports – Generate by Date Range	Exports correct totals	Works as expected	Pass	N/A
TC-11	Geofencing – Outside Allowed Network	Submission blocked/logged	Works as expected	Pass	N/A
TC-12	Geofencing – Inside Allowed Network	Attendance recorded successfully	Works as expected	Pass	N/A
TC-13	AI Notification – Pre-Class Reminder	Reminder sent 5 mins before	Works as expected	Pass	Alignment issues on banner
TC-14	AI Notification – Absence Threshold Alert	Instructor alert generated	Notification wasn't sent	Fail	Look into issue
TC-15	30-Minute Pending Rule	Finalizes after 30 minutes	Works as expected	Pass	N/A
TC-16	Performance – Multiple Concurrent Scans	Stable under 5–8 scans	Works as expected	Pass	No noticeable performance issues
TC-17	Network Drop During Scan	Error handled, retry allowed	Works as expected	Pass	N/A
TC-18	Unauthorized Access Blocked	Access denied to restricted pages	Works as expected	Pass	N/A
TC-19	Facial Recognition – Multiple Faces	Error displayed, scan blocked	Works as expected	Pass	Attempt to prioritize closest face to remove error
TC-20	Camera Permission Denied	Scanning disabled until granted	Works as expected	Pass	N/A
TC-21	Duplicate Scan	Prevents duplicate records	Works as expected	Pass	Once a successful

					scan is recorded the user cannot submit another
TC-22	Finalize Window (30 Minutes)	Leaves at 29 minutes marked absent, stays for 31 minutes marked present	Works as expected	Pass	N/A
TC-23	Geofencing with IP Change	Logs network change accurately	Works as expected	Pass	Improve logging in database schema
TC-24	Large Class Report Export	Accurate for 50+ students	Works as expected	Pass	50 test students were created and assigned to a class; records were reflected in export document
TC-25	API Slow or Failure with Retry	Displays retry/error message	Works as expected	Pass	N/A
TC-26	Admin – Add User	User created successfully	Works as expected	Pass	N/A
TC-27	Admin – Edit User	User info saved correctly	Works as expected	Pass	N/A
TC-28	Admin – Delete User	User removed from list	Works as expected	Pass	N/A
TC-29	Admin – Add Class	Class created successfully	Works as expected	Pass	N/A
TC-30	Admin – Edit Class	Class info saved correctly	Works as expected	Pass	N/A
TC-31	Admin – Delete Class	Class deleted from system	Works as expected	Pass	N/A

4. Defect Log

Defect ID	Description	Status	Notes
D-01	Calendar stays in 2025	Fixed	Calendar now goes +/- 1 year from 2025
D-02	Modification reason text is hard to see when editing attendance	Fixed	Darkened text for readability
D-03	Unused "Message" tab in navigation bar	Fixed	Removed from user view

D-04	Visually plain login page	Open	Background image being added
D-05	Failed attendance scan/recording	Deferred	Testers reference image was not in database
D-06	Text Readability	Fixed	Improved text contrast around all user pages
D-07	Simultaneous logins for same user	Open	Original user should be logged out after the new login attempt
D-08	Record modification reason text box needs character limit	Open	Add character limit to text box to prevent large record file sizes

5. Client/Instructor Feedback

Through our UAT with Professor Rabah we received the following feedback:

- Liked

    o Simplicity and functionality of UI design

- Needs work/changes

    o Background image on login page

    o A required check box for student to acknowledge privacy policy before scanning face.

6. Final Approval Statement

The client/instructor confirms that UAT has been conducted and the system is accepted, with or without noted changes.

Signature: _____ Date: _____