Test Case							
Project Name	Student Biometrics Attendance						
Module Name	Attendance page						
Created By	M.Sameeksha Reddy						
Created Date	2/3/2025						
Peer Review By	S.Sri Akshitha Reddy						
Peer Reviewed Date	2/3/2025						

Scenario TID	Scenario Desciption	Test Case ID	Pre Condition	Steps to Execute	Expected Result	Actual Result	Status	Executed QA Name	Misc (Comments)
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1	Successful Biometric Authentication and Attendance Marking	TC_BIO_001	Student biometric data is pre-registered in the system.	Student places their finger on the biometric scanner. System scans the fingerprint. The system matches the fingerprint with the registered data. If matched, the system marks attendance.	The system successfulty authenticates the student and displays a confirmation message that attendance is marked.	The system authenticated the student and displayed the message "Attendance Successfully Marked".	Pass	John Doe	Test performed on Device Model XYZ, Firmware Version 2.1
2	Biometric Authentication Failure - Unregistered Student	TC_BIO_002	Student biometric data is not registered in the system.	Unregistered student tries to scan their fragerprint.	The system displays an error message stating that the student is not registered, and attendance is not marked.	The system displayed "Biometric Data Not Found. Please Contact Admin."	Pass	Jane Smith	Tested with multiple unregistered fingerprints to ensure consistency.
3	Duplicate Attendance Attempt	TC, BIO_003	Student has already marked attendance for the day.	Student scans their fingerprint a second time on the same day. The system checks if attendance for the day is already market.	The system displays a message indicating that attendance is already recorded for the day.	The system displayed "Attendance Already Recorded for Today."	Pass	John Doe	Test repeated after 5 minutes and after system refresh to ensure consistency.
4	System Behavior with Partial Fingerprint Scan	TC_BIO_004	Student's biometric data is registered	Student places only part of their finger or an unclear print on the scanner. The system attempts to match the fingerprint	The system fails to authenticate and prompts the student to try again.	The system displayed "Fingerprint Not Recognized. Please Try Again."	Pass	_Alice Brown	Tested with wet and dry fingers to check sensitivity.
5	Biometric Device Disconnection/Error Handling	TC_BIO_005	Biometric scanner is disconnected or malfunctioning.	Student tries to scan their fingerprint. The system attempts to read from the scanner.	The system displays an error message indicating that the biometric device is not connected or not functioning.	The system displayed "Biometric Device Not Detected. Please Check Connection."	Pass	Jane Smith	Tested with both physical disconnection and software-induced malfunction.
6	Multiple Students Attempting Attendance Simultaneously	TC_BIO_006	Multiple students are present and attempting to scan fingerprints.	Multiple students place their fingers on different scanners (or sequentially if only one scanner is available). The system processes each fingerprint.	Each student's attendance is marked correctly without system lag or crashes.	The system processed each fingerprint without delay; attendance was marked correctly for all students.	Pass	Alice Brown	Test conducted with 10 students in quick succession.
7	Attendance Marking During Power Failure	TC_BIO_007	System is running, and attendance is being marked.	Student scans their fingerprint. Power goes out before confirmation.	The system should either save the last successful attendance mark or prompt the student to re-scan once the power is restored.	The system required the student to re-scan after power was restored. No partial data was saved.	Pass	John Doe	Test performed with UPS backup to simulate real-time recovery
8	Unauthorized User Trying to Access Attendance Data	TC_BIO_008	System is running with user authentication in place.	An unauthorized user attempts to access the attendance data through the system or backend.	The system denies access and logs the unauthorized attempt.	The system displayed "Access Denied" and logged the unauthorized attempt in the security logs.	Pass	Jane Smith	Attempted access through both front-end UI and direct database access.