Requirements ID

1.1

1.2 1.3 1.4 1.5 2.1.1

2.1.2 2.1.3 2.2 2.3 3.1 3.2 3.3 3.4 4.1

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| Requirements Description  Automated attendance tracking for university lecturers  Support multiple registered devices (smartphones, tablets, computers) Restrict attendance recording to registered devices  Store attendance records in a cloud-hosted MySQL database Provide REST API endpoints for data access and modification  Lecturers can register devices, record attendance, manage students, and generate reports Administrators can manage lecturers, students, courses, and attendance records  Students are identified in the system and associated with attendance records  Only registered devices can record attendance  Persist user-related data (lecturers, students, courses)  Lecturers can record attendance using a registered device Attendance records are stored in a database  Prevent unauthorized devices from recording attendance Generate attendance reports  Lecturers can register one or more devices Functionality to locate a registered device Store student profiles (name, university ID)  Capture and store passport-style photos for students  Store and manage courses  Associate students with courses  Associate lecturers with courses  Generate attendance records reports Generate student lists  Generate lecturer lists Generate course lists  Generate student enrollments in courses  Support adding new records Support modifying records Support deleting records  Support viewing records  Use a cloud-hosted MySQL database  Provide database access via a REST API Conduct User Acceptance Testing (UAT) Conduct System Testing  Conduct Unit Testing (where applicable) | UC1 | UC2 | UC3 | UC4 | UC5 | Check |