Term	Definition and Purpose
Authorized User	An admin-level user with permission to manage students, instructors, and system settings. Ensures proper access control.
Student	A registered learner whose attendance is monitored and recorded by the system.
Instructor	A faculty member responsible for marking student attendance and managing course data.
Registration	The process of entering a user (student or instructor) into the system, including details and ID photo.
Unregistration	Removing a user from the system, deleting their data and revoking access.
Registered Device	A phone or laptop assigned to an instructor, approved for taking attendance.
Barcode Scanning	Using a device's camera to read student ID barcodes for attendance tracking.
Attendance Report	A document or summary showing student attendance, viewable by authorized users.
Role-Based Access Control (RBAC)	A system that restricts access based on user roles, ensuring only the right users perform sensitive actions.
Multi-Factor Authentication (MFA)	A login process requiring multiple verification steps (e.g., password + code) for extra security.
HTTPS / SSL Security	Internet protocols that encrypt data to protect it during online transmission.
Cloud-Based System	A system hosted on the internet instead of local servers, allowing remote access and easier scaling.
MongoDB Atlas / MySQL	Cloud databases used to store system data. MongoDB is document-based, MySQL is table-based.
Device Location Feature	Allows authorized users to find lost registered devices using location tracking tools.
Scalability	The system's ability to grow in capacity (users, data) without reducing performance.
Deployment Timeline	The planned dates for system testing and going live (e.g., May 15: check; May 22: full launch).
Flask	A lightweight Python-based web framework used to build the backend of the system. Purpose: Handling server logic and APIs.

Term	Definition and Purpose
Backend	The server-side logic of the application that handles data storage, security, and application logic. Often built using Flask or similar frameworks.
Frontend	The part of the system that users interact with (UI). It communicates with the backend to display or send data.
React Native	A mobile app framework by Meta used to build native apps for iOS and Android. Purpose: Delivering a cross-platform user interface for instructors or students.