

Appendix A: Glossary

1. Attendance Record:

- A digital or physical record documenting the presence or absence of a user (student or employee) during a specific class or work session.

2. Biometric Authentication:

- Definition: A security measure that uses unique biological characteristics, such as fingerprints or facial recognition, to verify the identity of individuals accessing the system.

3. QR Code:

- A two-dimensional barcode that stores information, which can be scanned and interpreted by devices equipped with QR code readers. In the context of the Smart Attendance System, QR codes are generated for attendance tracking purposes.

4. Dashboard:

- A graphical user interface that provides an overview of important information and functionalities, allowing users (professors, teaching assistants, or students) to access relevant data and features at a glance.

5. Facial Recognition:

- Definition: A technology that identifies and verifies individuals by analyzing unique facial features captured through images or video. In the context of the Smart Attendance System, facial recognition is used for user authentication.

6. Fingerprint Scanner:

- A biometric device that captures and analyzes fingerprint patterns for user identification. In the Smart Attendance System, fingerprint scanners are used as a means of biometric verification.

7. Cloud Storage:

- Online storage services that allow data to be stored and accessed over the internet. In the Smart Attendance System, attendance data may be stored securely in cloud storage.

8. Visualization:

- The presentation of data in graphical or visual formats, such as charts, graphs, or dashboards, to facilitate better understanding and analysis. In the Smart Attendance System, attendance data is visualized to provide insights.

9. Scalability:

- The system's ability to handle a growing number of users, courses, and attendance records without a significant decrease in performance. Scalability ensures the system remains efficient as the user base expands.

10. Notification Preferences:

- User-configurable settings that allow individuals to customize the types and frequency of notifications they receive from the Smart Attendance System. Examples include attendance updates and system notifications.

11. User Manual:

- A document providing step-by-step instructions and guidance on how to use the Smart Attendance System effectively. The user manual assists users in navigating and utilizing various features.