

Software Requirements Specification (Phase-1)

1. Introduction

This Software Requirements Specification (SRS) defines Phase-1 of the QR-Based Attendance System.

Phase-1 focuses on building a working base model using React, Node.js, Express, and Google Sheets.

The design ensures smooth extensibility toward Phase-2 (authentication, roles, MongoDB).

2. Scope (Phase-1)

Included features:

- Faculty can generate QR codes for sessions.
- Students can scan QR codes and mark attendance.
- Location-based validation is enforced.
- Attendance is stored in Google Sheets.
- Attendance export in CSV format.

Excluded (Phase-2): Authentication, OTP, Admin, Enrollment.

3. Functional Requirements

FR1: Create attendance sessions.

FR2: Generate QR code for each session.

FR3: Validate student location.

FR4: Store attendance with timestamp.

FR5: Prevent duplicate attendance.