

Attendance Tracker

System Architecture Documentation

1. System Overview

A high-level description of the system architecture, including its purpose and main components.

1.1 Purpose

Describe the primary objectives and goals of the system.

1.2 Scope

Define the boundaries and limitations of the system.

2. Architecture Components

2.1 Frontend Architecture

- User Interface Design
- Client-side Technologies
- User Experience Considerations

2.2 Backend Architecture

- Server Infrastructure
- Database Design
- API Architecture

2.3 Integration Points

- Third-party Services
- External APIs
- System Interfaces

3. Technical Specifications

3.1 Technology Stack

Detail the technologies, frameworks, and tools used in the system.

3.2 Data Flow

Describe how data moves through the system.

4. Security Architecture

- Authentication Methods
- Authorization Mechanisms
- Data Protection Measures

5. Deployment Architecture

5.1 Infrastructure

Document the hosting environment and deployment configuration.

5.2 Scalability

Describe scaling strategies and mechanisms.

6. Monitoring and Maintenance

- Monitoring Tools
- Logging Strategy

- Backup Procedures

7. Performance Considerations

- Performance Requirements
- Optimization Strategies
- Benchmarks

8. Disaster Recovery

Document the disaster recovery plan and procedures.

Note: This template should be customized based on your specific system requirements and organizational needs.