

# Software Development Documentation

## 1. Project Overview

### 1.1. Project Name

### 1.2. Description

Provide a brief summary of the purpose and scope of the software.

Example:

### 1.3. Goals and Objectives

<Outline the main goals the software aims to achieve.>

## 2. System Architecture

### 2.1. Architecture Diagram

Include a diagram representing the system's architecture (e.g., client-server, microservices, etc.).

### 2.2. Components

Describe the key components/modules of the system.

- **Frontend:**
- **Backend:**
- **Database:**
- **APIs:**

## 3. Functional Requirements

### 3.1. User Features

<List features available to users.>

### 3.2. System Features

## 4. Non-Functional Requirements

### 4.1. Performance

Define system performance metrics (e.g., response time under 200ms).

### 4.2. Security

Outline security measures like encryption, secure API endpoints, and compliance with GDPR.

### 4.3. Scalability

Describe how the software will handle growth in users or data volume.

## 5. Design Details

### 5.1 Database Design

Include an entity-relationship diagram (ERD) and details of key tables and relationships.

## 5.2. User Interface (UI) Design

## 6. Development Process

### 6.1. Methodology

State the development methodology (e.g., Agile, Scrum, Waterfall).

### 6.2. Tools and Technologies

- **Programming Languages.**
- **Frameworks**
- **Version Control**

### 6.3. Testing

Explain the testing strategy (unit tests, integration tests, etc.)

## 7. Deployment

### 7.1. Environment Setup

Detail the software, hardware, and configurations required for deployment.

### 7.2. Deployment Process

Provide step-by-step instructions for deploying the software.

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## 8. Appendix

### 8.1. Glossary

Define terms and acronyms used in the documentation.

### 8.2. References

List references or resources used during development.

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Note: Include in the following details:

- a. Names of Team Leader and the Group members.
- b. Presentation Date