Technical Documentation

[Project Name]

1. Introduction

* Purpose of the document.
* Overview of the software system being documented.
* Scope of the technical documentation.

2. System Overview

* Brief description of the system architecture.
* High-level components and their interactions.
* Deployment architecture.

3. Installation Guide

* System requirements (hardware, software, dependencies).
* Step-by-step instructions for installing the software.
* Configuration settings and options.

4. Configuration Guide

* Detailed instructions for configuring the software.
* Configuration file formats and parameters.
* Best practices for customization.

5. API Documentation

* List of APIs exposed by the system.
* Endpoint URLs, request/response formats, and parameters.
* Authentication and authorization requirements.

6. Database Documentation

* Entity-relationship diagram (ERD) depicting the database schema.
* Description of database tables, fields, and relationships.
* Data migration and backup procedures.

7. User Manual

* Instructions for using the software.
* User interface descriptions and navigation guidelines.
* Common tasks and workflows.

8. Troubleshooting Guide

* Common issues and error messages.
* Troubleshooting steps and resolutions.
* Contact information for technical support.

9. Code Documentation

* Code structure and organization.
* Inline comments explaining key functions and logic.
* Coding standards and conventions.

10. Testing Documentation

* Test plan outlining testing objectives and strategies.
* Test cases covering functional and non-functional requirements.
* Test results and defect reports.

11. Maintenance Guide

* Procedures for maintaining and updating the software.
* Version control and release management practices.
* Guidelines for handling bug fixes and enhancements.

12. Revision History

* Log of changes made to the document, including dates and descriptions of changes.

13. Approval

* Signature lines for key stakeholders to approve the technical documentation.

14. Appendix

* Any additional supporting documentation (e.g., diagrams, reference materials).