

# GenXL - Architecture Design

## 1. Introduction

Briefly explain the purpose of the system, its scope, and what this document covers.

- Overview
- Purpose
- Scope

## 2. System Overview

High-level description of the system and its main features, without going into technical details.

- High-level description
- Key features

## 3. Requirements

Summarizes the functional requirements (what the system should do) and non-functional requirements (performance, scalability, usability, etc.).

- Functional requirements
- Non-functional requirements

## 4. Architecture Overview

Describes the main components of the system, how they interact, and includes diagrams.

- Main components
- End-to-End workflow
- Interactions
- Diagrams

## 5. Data Design

Outlines how data is structured and stored, including data models or databases used.

- Data model
- Storage approach

## 6. Key Design Decisions

Highlights important technical choices, why they were made, and what alternatives were considered.

- Important choices
- Alternatives considered

## 7. Security

Explains how the system ensures security, covering authentication, authorization, and data protection.

- Authentication / authorization
- Data protection

## 8. Deployment

Describes where and how the system will be deployed (environments, servers, cloud, etc.) and how updates are delivered.

- Environments
- Deployments diagram
- CI/CD

## 9. Operations

Covers ongoing management: monitoring, logging, maintenance, and support processes.

- Monitoring
- Logging
- Maintenance

## 10. Risks

Lists potential risks, their impact, and mitigation strategies.

- Potential risks
- Mitigation strategies

# 11. Appendix

Extra material like glossary, references, or supporting diagrams.

- Glossary
- Reference

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