

GenXL

Documentation for the GenXL project

- [GenXL - Architecture Design](#)
- [Onboarding Document](#)

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

Onboarding Document

[Insert NPO name] Onboarding

| | |
|------------------|-----------------------------------------------------------------------------------------------------------------|
| NPO | [Insert NPO name, hyperlink to their website] |
| Primary Contacts | [Insert Tech Lead and PM contact (Name, role, position, email, discord handle)] |
| Repository Links | [List of repositories used for the project in the following format (repository name with hyperlink to gh repo)] |
| Issue Tracker | [Direct link to gh issue tracker] |

Overview

Provide a short description of the NPO [What do they do? Where are they located? Group of people their services are focused on?]

Provide a high-level description of what the project does, what problem does it solve, who will be using it?

Architecture

Include a short explanation of the system's main components:

- Core Services
- Frameworks. If you are using a niche framework (PayloadCMS, Glom) include a link to their documentation.
- Databases
- Authentication mechanisms

[Insert the architecture document created before project kickoff]

Challenges

Give a prioritized list of all main challenges your team is currently facing and a possible path to solve them. Encourage them to contribute to the problem solving brainstorm.

What are some of the features that will be worked on next semester?