

Introduction

System Architecture

The landing page consists of these parts:

- **Reverse Proxy (Nginx):** Acts as the entry point. It handles SSL termination and routes traffic to the Vue.js static files or the Spring Boot API.
- **Frontend (Vue.js):** A Single Page Application (SPA) that handles the UI and user interactions.
- **Backend (Spring Boot):** The RESTful API that handles business logic, database transactions, and security checks.
- **Database (PostgreSQL):** Persistent storage for news, team members, and configuration.
- **Containerization (Docker):** Everything is wrapped in Docker containers

Which is easier to understand with following diagram:

[image.png](#)

Admin Dashboard

Our system implements a two-tier auth system to log in.

1. **The Super User:** One hard-coded or environment-variable-based account used for initial setup or emergency access.
2. **Google OAuth 2.0:**
 - **The Whitelist:** Access isn't open to any Google account. Only emails ending with `@roboteamtwente.nl` are permitted.
 - **Logic:** When a user logs in, the backend checks if the returned Google email exists in the authorized list. If it's not there, the Spring Boot Security filter returns a `403 Forbidden`.

*Adding new users to authorized list: while everyone is technically allowed to login if they have a `@roboteamtwente.nl` email, you still have to add them to website's whitelist. It is done in "User Managing" tab on admin's dashboard. It is possible to have a user listed, though deactivated, for book keeping reasons.

[image.png](#)

Admin Panel & Content Management

The website isn't just a static landing page; it's a dynamic CMS. Almost all pages hold content that you are able to edit and manage through the admin panel.

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