Group 7 Project: Habit tracker

1. Architecture (Zachary)

Infrastructure will be hosted on <u>Coolify</u> on a personal Hetzner node. The main API will be hosted behind an NGINX reverse proxy to access the backend service.

2. Database (Joe)

The database of choice for this particular project is <u>Postgresql</u> given its fast speed, compatibility with our data models previously done, and general simplicity for deployment.

3. Frontend (Trung)

The frontend will be using Dart as a language and <u>Flutter</u> as a framework. This allows us to prototype a mobile application very fast with little to no difficulty, and provides us with a rich and well documented dev ecosystem, friendly for unfamiliar app developers like ourselves.

4. Backend (Thibaut)

The backend will be using Java as a language and <u>Spring Boot MVC</u> as a framework. This allows us to easily create a compatible backend service without needing to write any CRUD sql queries as JPA handles all of said logic for us.

Generate a URL request	Determine who/what responds to it	Respond	Get/put data	Send results back
Flutter App	Flutter (Internal)	The requested mobile display view	Local storage	Flutter themed native pages
Flutter App	Spring Boot	API queries	CRUD models (json)	Flutter ingestible data (json)