

Routine App Tutorial Stage 1: Initial Prototype (Monolithic)

This document outlines the structure and implementation of the dev.algo.routine full-stack application. Specifically, this document is a tutorial on how to build the initial monolithic application.

Backend Setup

1.1 Set up Spring Boot project

Create an initial project

1. Configure from web <https://start.spring.io/>.
2. Specifically, use this [predefined configuration](#) using java 17 and maven, adding web, data-jpa, postgresql, security, and lombok dependencies.
3. Generate, download, unzip
4. Import the project in your IDEA Import: Project properties > Import module

1.2 Configure PostgreSQL database

Setting up a robust database is crucial for the application. Set up PostgreSQL, a powerful open-source relational database system.

1. Install PostgreSQL if not already installed
2. Create a new database named `routine_db`
3. Open the `src/main/resources/application.properties` and add the db connection details

```
# DB connection
spring.datasource.url=jdbc:postgresql://localhost:5432/routine_db
spring.datasource.driver-class-name=org.postgresql.Driver
spring.jpa.hibernate.ddl-auto=update
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.PostgreSQLDialect
spring.jpa.show-sql=true
# The following line is for using Spring Profiles
spring.profiles.active=dev
```

4. Create a file `application-dev.properties` to store db user and password

```
spring.datasource.username=your_username
```

```
spring.datasource.password=your_password
```

Note:

- You should gitignore the `dev.properties`.
- In a production environment, consider using environment variables or a secure vault for sensitive information.