

# BACKEND DESIGN

Firstly, we start by setting up our development environment with the necessary tools and dependencies. We install Java and Maven, and configure our IDE (e.g., IntelliJ IDEA) to work with Spring Boot.

Next, we create our database schema using MySQL. We design the database tables to represent the entities in our application, and define the necessary relationships between them. We then create a connection to the database using Spring's JDBC template, and configure it in our Spring Boot application.

We then set up Spring Security to secure our application. We define the security policies, such as which URLs are accessible to which users, and what types of authentications and authorization are required. We use Spring's built-in authentication providers or implement our own custom provider if needed.

After setting up security, we move on to implementing the MVC architecture. We define the models, which represent the data and business logic, and the views, which handle the presentation logic. We create the necessary controllers to manage the flow of data between the model and view, and map them to the appropriate URLs using Spring's annotation-based approach.

