Step 1: Creating a Spring Boot Project

Initialize a new Spring Boot project named EmployeeManagementSystem using your preferred IDE or by using the Spring Initializr tool.

Project Structure:

EmployeeManagementSystem

src

main

java

com

example

employeemanagementsystem

EmployeeManagementSystemApplication.java

resources

application.properties

test

java

com

example

employeemanagementsystem

...

target

...

pom.xml (if using Maven) or build.gradle (if using Gradle)

Add Dependencies:

Add the following dependencies to your pom.xml file (if using Maven) or build.gradle file (if using Gradle):

Maven (pom.xml):

<dependencies>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-jpa</artifactId>

</dependency>

<dependency>

<groupId>com.h2database</groupId>

<artifactId>h2</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

<groupId>org.projectlombok</groupId>

<artifactId>lombok</artifactId>

<optional>true</optional>

</dependency>

</dependencies>

Gradle (build.gradle):

dependencies {

implementation 'org.springframework.boot:spring-boot-starter-data-jpa'

implementation 'com.h2database:h2'

implementation 'org.springframework.boot:spring-boot-starter-web'

implementation 'org.projectlombok:lombok'

annotationProcessor 'org.projectlombok:lombok'

}

Step 2: Configuring Application Properties

Create an application.properties file in the src/main/resources directory and add the following configuration:

spring.datasource.url=jdbc:h2:mem:testdb

spring.datasource.driverClassName=org.h2.Driver

spring.datasource.username=sa

spring.datasource.password=password

spring.jpa.database-platform=org.hibernate.dialect.H2Dialect