**Employee Management Application**

**Overview**

The **Employee Management Application** is a web-based solution designed to streamline the management of employee records and operations. Built with **Spring Boot** and **Thymeleaf**, this application provides a user-friendly interface for CRUD (Create, Read, Update, Delete) operations on employee data.

**Features**

1. **Employee Management**:
   * Add new employees.
   * View detailed information of employees.
   * Update existing employee details.
   * Delete employees from the system.
2. **Search and Filter**:
   * Search employees by name, ID, or department.
   * Filter employees by roles or departments.
3. **Responsive Interface**:
   * The application is optimized for desktop and mobile usage with responsive design.
4. **Robust Backend**:
   * Built with **Spring Boot**, leveraging its powerful dependency injection and modularity.
   * Thymeleaf is used for rendering dynamic web pages.

**Technologies Used**

1. **Backend**:
   * Spring Boot 3.x
   * Spring MVC
   * Spring Data JPA
   * Hibernate
2. **Frontend**:
   * Thymeleaf (HTML templating)
   * CSS for styling
   * Bootstrap for responsive design
3. **Database**:
   * H2 (in-memory database for development)
   * MySQL or PostgreSQL (for production)
4. **Build Tools**:
   * Maven or Gradle (choose based on your preference)

**Prerequisites**

1. **Java**: JDK 17 or higher
2. **Maven**: 3.6+ or **Gradle**: 7.x+
3. **Database**: MySQL/PostgreSQL or H2 (for testing)
4. **Browser**: Latest version of Chrome/Firefox