



Department app

Java project

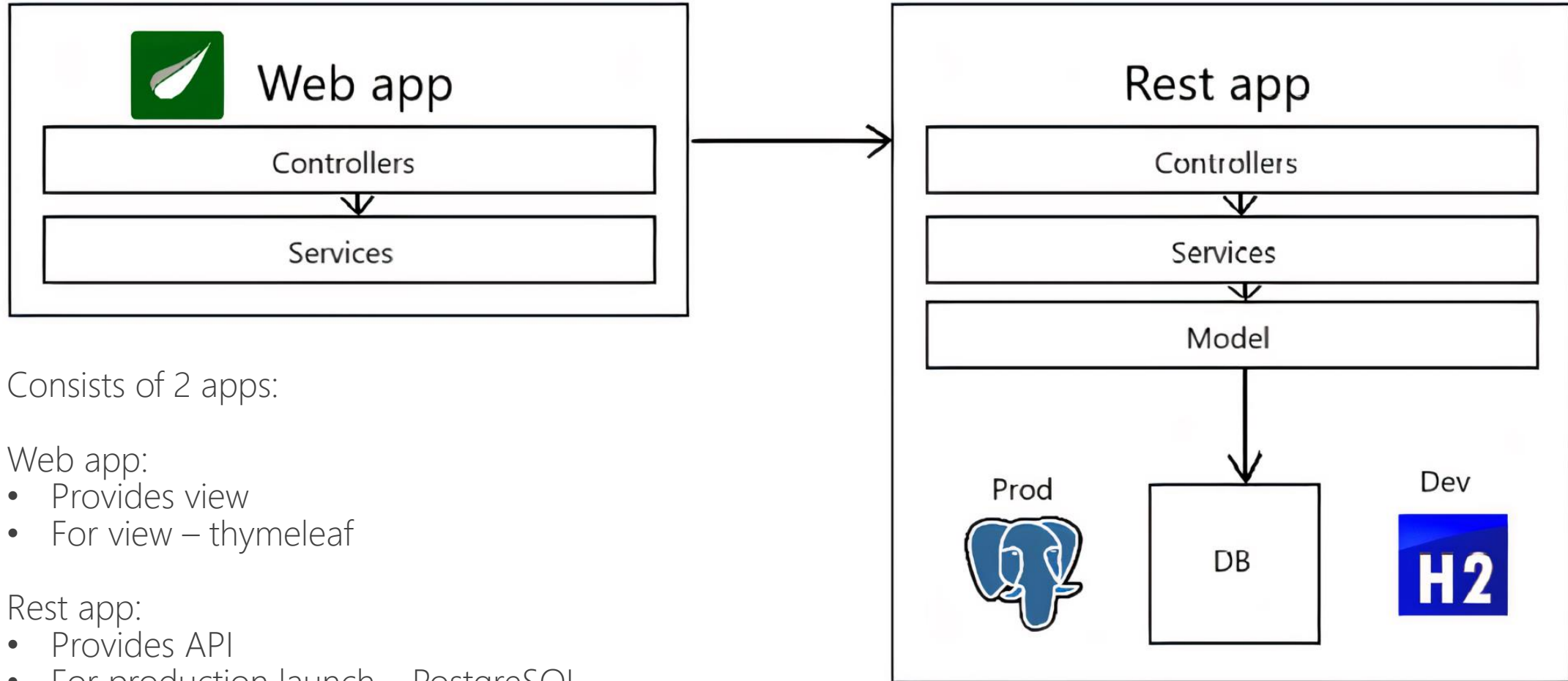
Project overview

Department app is an application for managing employees and departments by managers of the company.

This app must provide:

- CRUD for employees
- CRUD for departments
- Employees by department

Project structure



Consists of 2 apps:

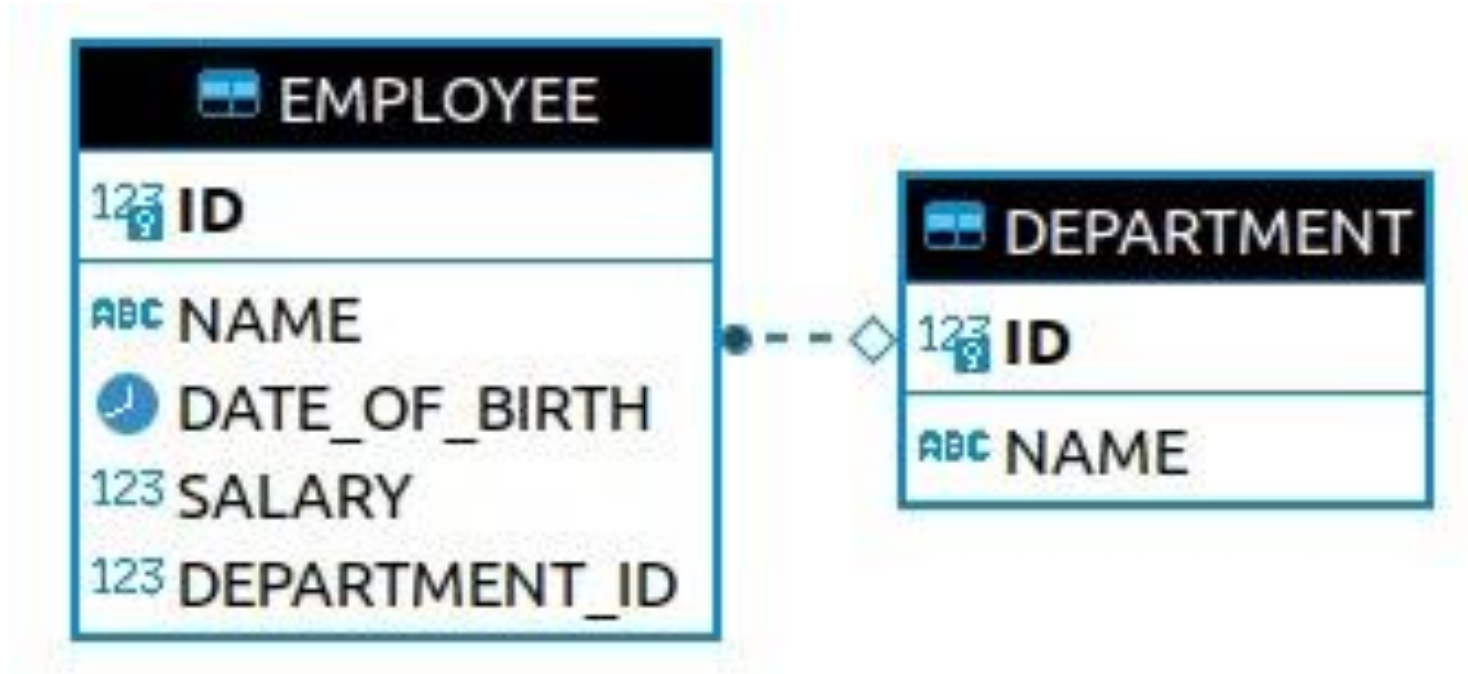
Web app:

- Provides view
- For view – thymeleaf

Rest app:

- Provides API
- For production launch – PostgreSQL
- For tests – h2 embedded

Database structure



Foreign key: employee department id to department id

Web app

Features:

- Adaptive design
- Controller advice to handle exceptions

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Department

Id: 4

Name

Can't be deleted, still related employees remain

- Related employee deleted ->

Department's dedicated employees:

Id Name Birthdate

4 YES 12-08-2021 [Edit](#) [Delete](#)

Picture 1 - before

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Department

Id: 4

Name

Picture 2 - after

Rest app

Features:

- High code coverage – every layer tested
- Postgres database by default, h2 for testing
- API documented by Swagger



Picture 1 – swagger UI

Application life

Used technologies:

- Spring boot
- Thymeleaf
- Log4j2
- Jupiter
- Mock MVC
- Apache Maven

To build and run app:

- Building tool – apache maven
- 2 jars are generated that can be ran separately