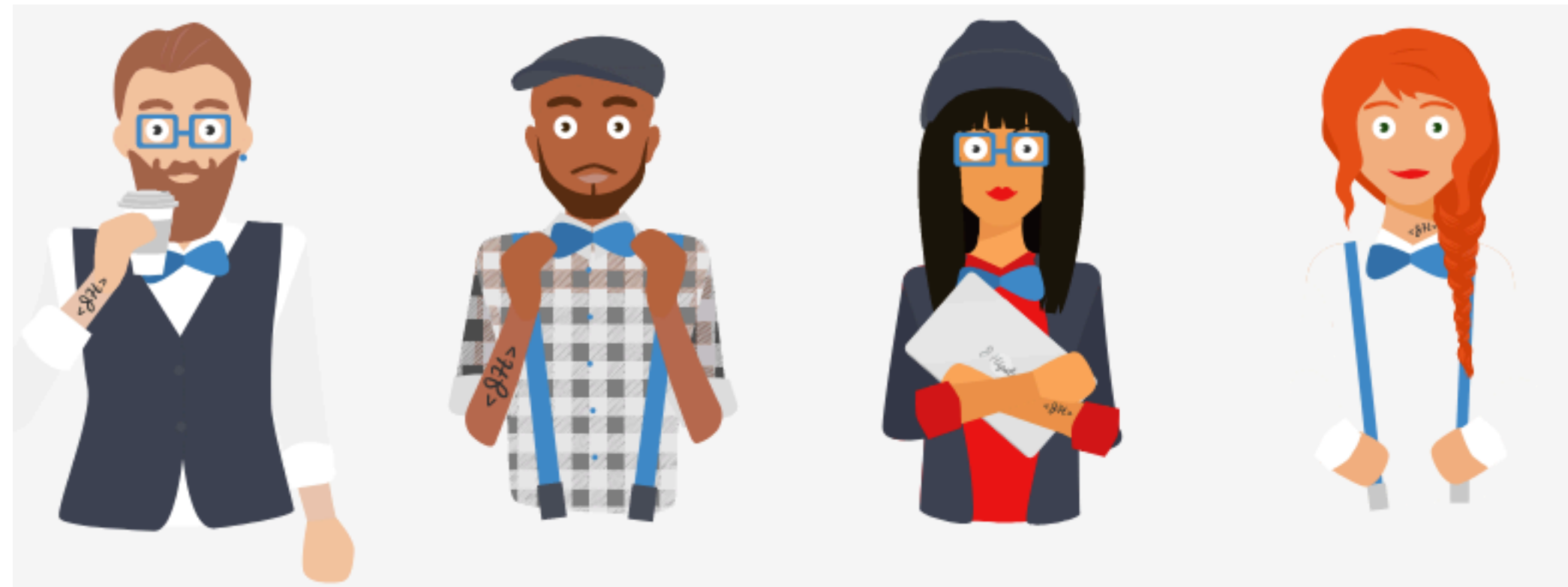


Agile Team Project

Week 4 Part 4 :
Introduction to JHipster

From: <https://www.jhipster.tech/>

What is JHipster



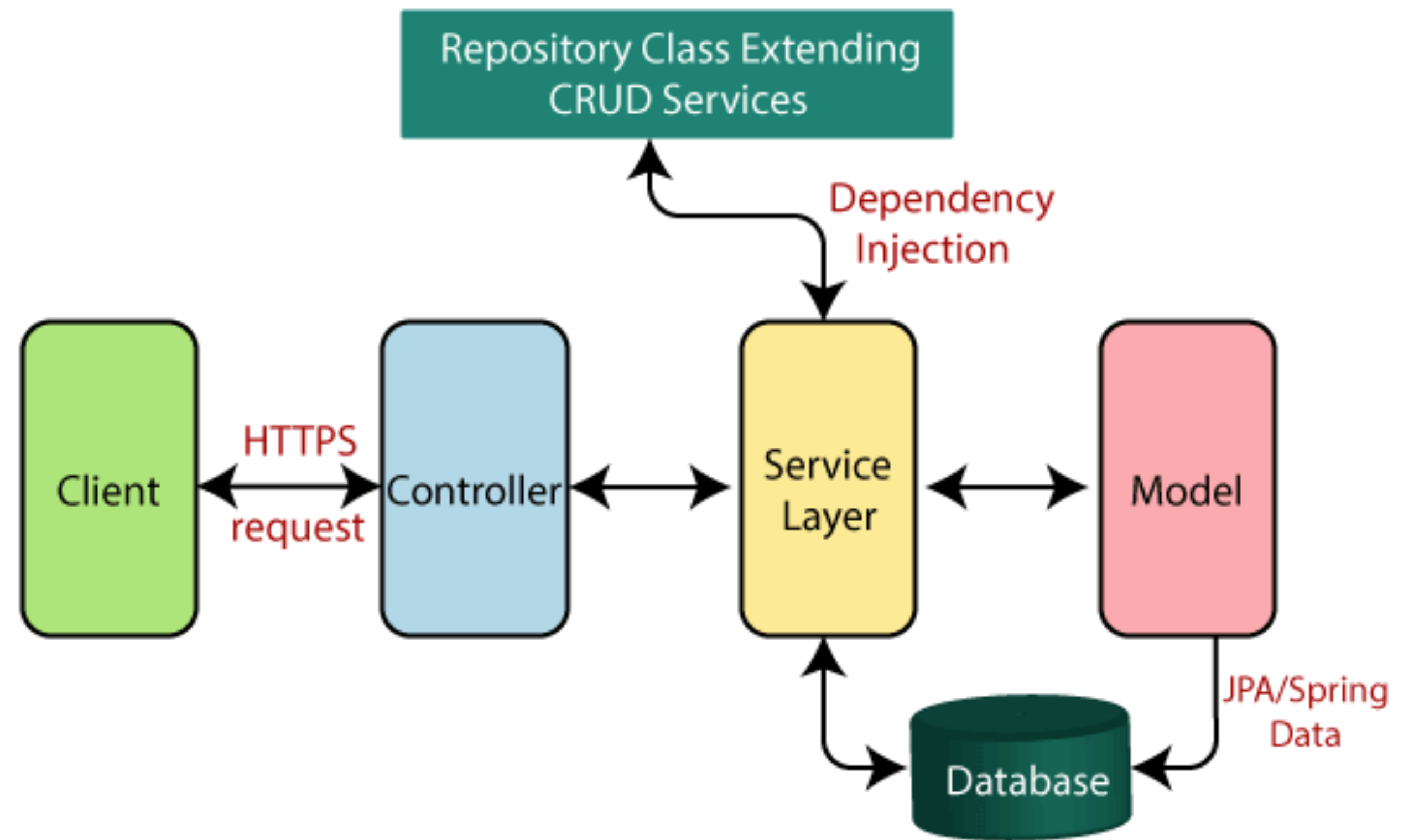
- Web application generator
- Modern, production ready, infrastructure
- Combination of industry standard tools
- code generator: JDL
- `jhipster` command line interface



JHipster is a tech-stack generator

- Backend: Springboot (others possible)
- Frontends: Angular or React or Vue
- Databases: PostgreSQL, MySQL, noSQL
- Questions asked when generating an application :
<https://www.jhipster.tech/creating-an-app/#2>
- `.yo-rc.json` : contains options used to generate app

**n.b. you can re-generate the template app or
use a completely different tech-stack**



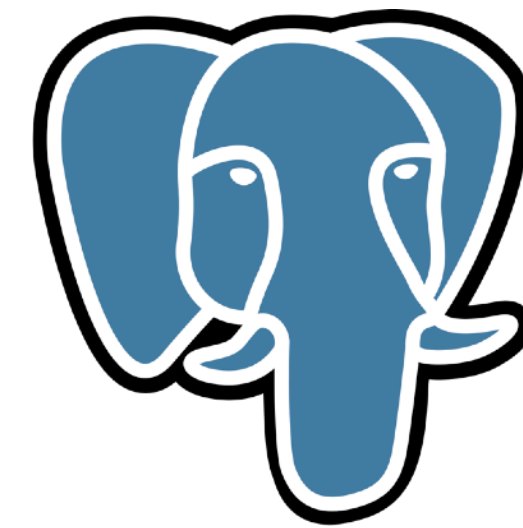
- Boot: “opinionated” framework for building Spring framework apps
 - Makes decisions, generates project files
- Java based: lots of library, tool support
- n.b. Generated by JHipster

Backend

- Backend:
 - business logic: programs, classes
 - persistence layer: ORM
 - Respond to user requests based on State
 - REST APIs
- Result: dynamic web applications

Supported Databases

- **PostgreSQL**



- MySQL

- MariaDB




- **H2 - dev mode**

Admin Interface / User Management

← → ↻ 138.68.150.235:8080 ☆ ⬇ T 📄 >> 📄 ☰

Teamproject v0.0.1-SNAPSHOT 🏠 Home 📄 Entities ▾ 👤 Administration ▾ 👤 Account ▾



Welcome, Java Hipster! (Teamproject)

This is your homepage

You are logged in as user "admin".

If you have any question on JHipster:

- [JHipster homepage](#)
- [JHipster on Stack Overflow](#)
- [JHipster bug tracker](#)
- [JHipster public chat room](#)
- [follow @jhipster on Twitter](#)

If you like JHipster, don't forget to give us a star on [GitHub](#)!

This is your footer

← → ↻ 138.68.150.235:8080/admin/user-management ☆ ⬇ T 📄 >> 📄 ☰

Teamproject v0.0.1-SNAPSHOT 🏠 Home 📄 Entities ▾ 👤 Administration ▾ 👤 Account ▾

Users

🔄 Refresh list + Create a new user

ID ▲	Login ◆	Email ◆		Language ◆	Profiles	Created date ◆	Modified by ◆	Modified date ◆	
<u>1</u>	admin	admin@localhost	Activated	en	ROLE_USER ROLE_ADMIN		admin	17/02/23 15:12	View Edit Delete
<u>2</u>	user	user@localhost	Activated	en	ROLE_USER		system		View Edit Delete

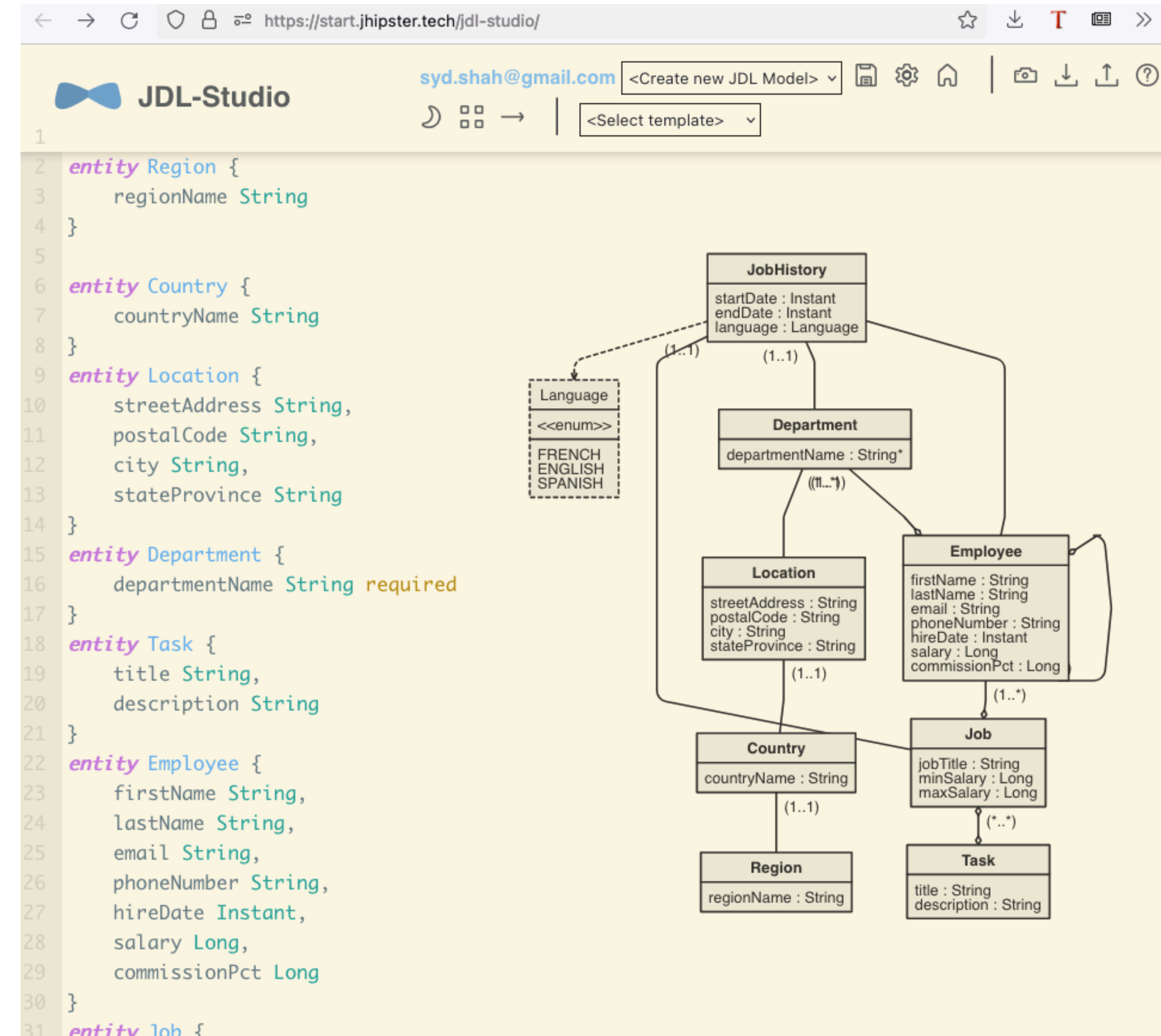
Showing 1 - 2 of 2 items.

« « 1 » » » »

This is your footer

JHipster Domain Language

- JDL: Domain Specific Language
- Specify Entities and Relationships
- Editor: JDL Studio, IDE plugins
- UML Class-Diagram-like




<https://www.jhipster.tech/jdl/intro#-jhipster-domain-language-jdl>


CRUD


Using JDL we get a CRUD app for our entities







- Create
- Read
- Update
- Delete

Posts

 Refresh list

 Create a new Post

A new Post is created with identifier 1052 

ID ^	Title ⇅	Content ⇅	Date ⇅	Blog ⇅	
1051	Hello World	Hi!	28 Apr 2021 00:00:00	Admin's blog	 View  Edit  Delete
1052	JHipster is awesome!	I just love it!	28 Apr 2021 08:00:00	User's blog	 View  Edit  Delete

FakerJS for dev profile

- Automatically generates example entities
- Useful- avoid to manually creating dummy data
- In dev profile only; disable in:



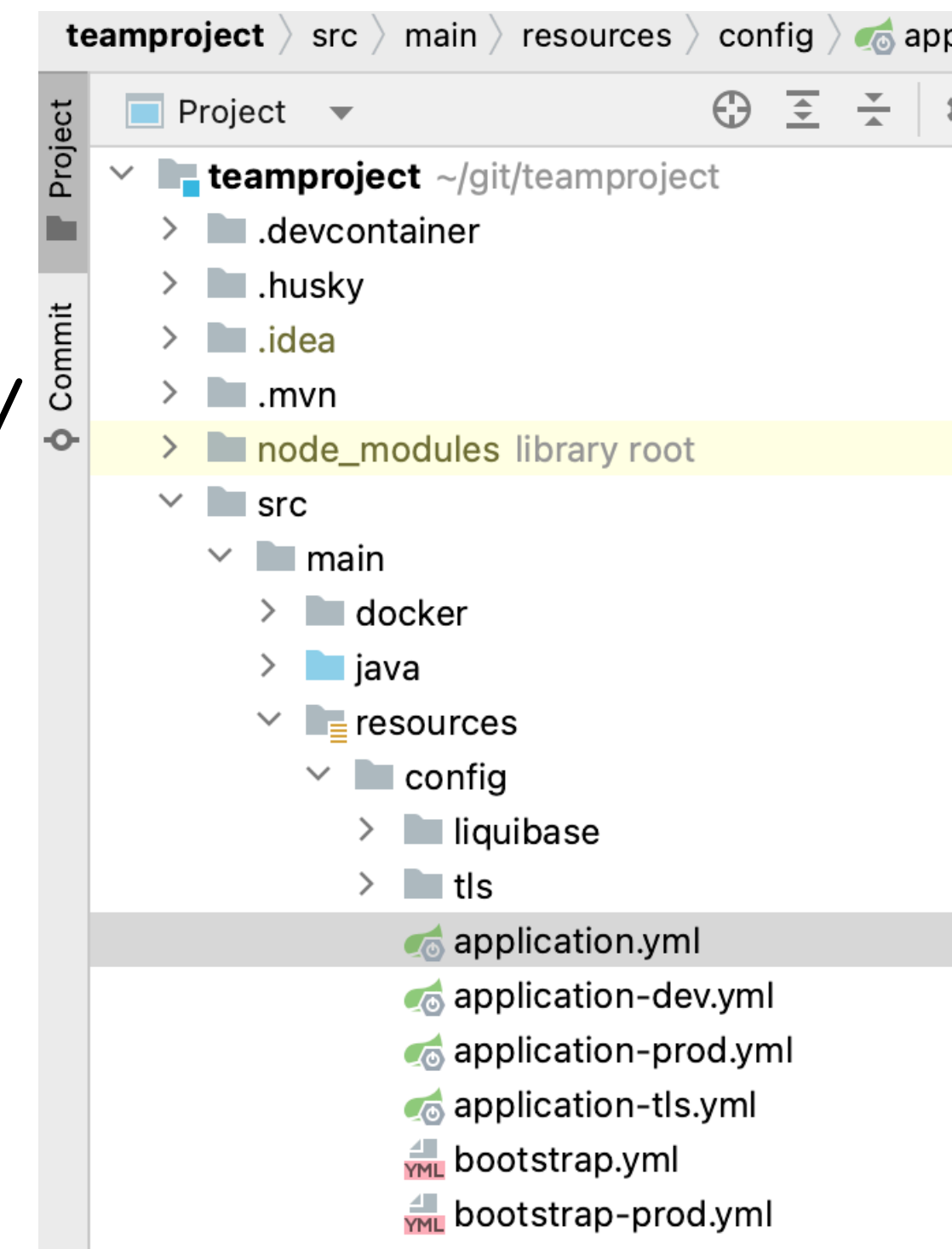
The screenshot shows an IDE with several tabs: UserRepository.java, MailService.java, UsernameAlreadyUsedException.java, UserService.java, and application-dev.yml. The application-dev.yml file is open, showing the following configuration:

```
39 poolName: Hikari
40 auto-commit: false
41 h2:
42   console:
43     # disable spring boot built-in h2-console since we start it manually with correct conf
44     enabled: false
45 jpa:
46 liquibase:
47   # Remove 'faker' if you do not want the sample data to be loaded automatically
48   contexts: dev, faker
49 mail:
50   host: localhost
```

A callout box points to line 48 with the text "Line 48 remover faker". The file path "src/main/resources/config/application-dev.yml" is also visible in the background.

SpringBoot: profiles

- configurations for production and development
- databases, DEBUG messages, dummy data etc
- Local DB in `/target/h2db`
(local machine only - “dummy data”)
- Remote DB: `~/volumes/jhipster/teamproject/postgresql/`
(VM only- “real data”)
- VM DB config: `src/main/docker/app.yml`



Angular Front End

- TypeScript
 - Microsoft, type-checked JS
- Angular
 - Google aka angular2
- Modular
- Event/property binding
- npm build environment

```
// src/app/app-routing.module.ts

import { NgModule } from '@angular/core'
import { Routes } from '@angular/router'
import { NativeScriptRouterModule } from '@nativescript/angular'

const routes: Routes = [
  // Update this 📌
  { path: '', redirectTo: '/home', pathMatch: 'full' },

  // Add this 📌
  {
    path: 'home',
    loadChildren: () => import('./features/home/home.module').then(m => m.HomeModule)
  }
]

@NgModule({
  imports: [NativeScriptRouterModule.forRoot(routes)],
  exports: [NativeScriptRouterModule]
})
```


JHipster Careers

What

Where

Date posted ▾

Posted By ▾

Remote ▾

Salary estimate ▾

Job type ▾

Education level ▾

Industry ▾

Location ▾

Post your resume and find your next job on Indeed

spring boot jobs

Sort by: **relevance** - [date](#)

Senior Software Engineer I

Pax8

Remote

£60,000 - £78,000 a year

Full-time

Additional job details

Remote

➤ Easily apply

◦ The Senior Software Engineer I designs, develops, tests, deploys, maintains, and improves software for end users, with a strong focus on technical leadership.

Posted 15 days ago

£45,000+ (751)

£50,000+ (666)

£60,000+ (459)

£70,000+ (302)

£95,000+ (161)

Senior Software Engineer I

Pax8

Remote • Remote

£60,000 - £78,000 a year - Full-time

Apply now

♥

Job details

Salary

£60,000 - £78,000 a year

Job type

Full-time

Remote

Benefits

Pulled from the full job description

Company pension

Cycle to work scheme

Full Job Description

new

Software Developer | Gloucester

CGI 3.6 ★

⋮

What

Where

Tip: Enter your city or postcode in the "where" box to show results in your area.

Date posted ▾

Posted By ▾

Remote ▾

Salary estimate ▾

Job type ▾

Programming language ▾

Education level ▾

Post your resume and find your next job on Indeed

angular jobs

Sort by: **relevance** - [date](#)

Developer

Next PLC

Enderby [+1 location](#)

£25,719 a year

Permanent +1

Monday to Friday

◦ Working across our whole warehouse estate, you'll help develop and support systems that ensure our Warehouse & Distribution operation continues to remain...

Posted 27 days ago

£40,000+ (3068)

£45,000+ (2583)

£50,000+ (2008)

£55,000+ (1442)

£70,000+ (586)

Developer

Next PLC

Enderby

£25,719 a year - Full-time, Permanent

You must create an Indeed account before continuing to

Apply on company site

♥

Job details

Salary

£25,719 a year

Job type

Full-time

Permanent

Benefits

Pulled from the full job description

Company pension

Employee discount

Free

Senior Frontend Developer

Talos360 5.0 ★

Remote

£45,000 - £55,000 a year

Full-time

Additional job details

Summary

- JHipster: modern web app generator
- SpringBoot: dynamic, Java backend
- Angular Front End