SIT331- 5.1P

Setup instructions

Tech requirements

Back-end (Ruby on Rails with Grape API):

- Ruby 3.1.2
- Rails 7.0.4 or newer
- Grape (for building REST-like APIs)
- MySQL (as the database for Active Record)
- Puma (web server)
- rack-cors (for handling CORS)

Front-end (Angular):

- Angular 15.2.0
- Angular Material 15.2.8 (UI component library)
- Angular CDK 15.2.8 (Component Dev Kit)
- rxjs 7.8.0 (Reactive Extensions for JavaScript)
- tslib 2.3.0 (TypeScript runtime library)
- zone.js 0.12.0 (for Angular change detection)

Development tools and testing:

- Node.js 14.x or newer (for running the Angular application and managing npm packages)
- npm (for managing front-end dependencies)
- Angular CLI 15.2.1 (for development and building Angular applications)
- TypeScript 4.9.4 (for Angular development)
- Jasmine 4.3.0 (for testing Angular components)
- Karma 6.4.0 (test runner for Angular)

Fork the repository:

- Go to the repository URL: https://github.com/maddernd/art-gallery-331.git
- Click on the "Fork" button located in the top-right corner of the page.
- Choose your GitHub account where you'd like to create the fork.
- The repository will be forked to your account, and you'll be redirected to the new forked repository.

Clone the forked repository:

- Open a terminal or command prompt on your local machine.
- Navigate to the directory where you want to clone the repository.
- Run the following command, replacing YOUR_USERNAME with your GitHub username:

  git clone https://github.com/YOUR_USERNAME/art-gallery-331.git

Add the original repository as an upstream remote:

- Change the working directory to the cloned repository:

    cd art-gallery-331

- Add the original repository as an upstream remote:
    git remote add upstream https://github.com/maddernd/art-gallery-331.git

Sync your fork with the upstream repository:

- Fetch the latest changes from the upstream repository:
    git fetch upstream
- Merge the changes into your local branch:
    git merge upstream/main

Set up the back-end (Ruby on Rails) application:

- Ensure you have Ruby (version 3.1.2), Rails (version 7.0.4 or newer), and Bundler installed on your machine. If not, you can follow the installation instructions here: https://guides.rubyonrails.org/getting_started.html
- Install the required gems:
    bundle install

Set up the database by running the following commands:

    rails db:create rails db:migrate

Set up the front-end (Angular) application:

- Ensure you have Node.js (version 14.x or newer) and npm installed on your machine. If not, you can download them here: https://nodejs.org/
- Change the working directory to the front-end folder:

    cd art-gallery-fe

- Install the required packages:

    npm install

Run the back-end application:

- Change the working directory to the root folder of the back-end application, if not already there and start rails server
    rails s
- The Rails server will run on http://localhost:3000 by default.

Run the front-end application:

- Open a new terminal or command prompt.
- Change the working directory to the front-end folder:

    cd path/to/art-gallery-331/art-gallery-fe

- Start the Angular development server:

```
npm start
```

- The Angular application will run on http://localhost:4200 by default.