

Project Description

Create a task management application for the recruitment process. You have the flexibility to choose the programming language and framework that you prefer.

Tasks

1. Develop a CRUD functionality for two models: Task and User.
2. Implement pagination and sorting options for the lists of Users and Tasks, allowing sorting by ID and any other field.
3. Enable filtering of the list of Tasks by User.
4. Include a feature to mark a Task as complete in the list.
5. Display the current weather in the header of all pages.

Technical Requirements:

1. Utilise GitHub for code version control.
2. Your project should be buildable as a docker image and there should be instructions on how to run it.
3. Adhere to Git guidelines as closely as possible.
4. Emphasise code quality, as it will be a significant factor in the evaluation process.

Packing requirements

1. The application must be packaged as a docker image. Instructions should be provided along with a Dockerfile explaining how the image should be built.
2. Also, instructions should be provided on running the application as a docker container.
3. If there are any external dependencies that you think are necessary (such as MySQL/Postgres/Redis etc.) then please provide an appropriate docker-compose file that should self contain everything including building the application image and bringing up the required components.

Results

1. Provide a technical explanation of your project, including the design patterns (if any) you used and the reasons behind your choices.
2. Submit an Entity-Relationship Diagram (ERD) that illustrates the relationships between the entities in your project.
3. Justify your selection of programming language and framework.
4. Share the public link to your Git repository for review.