

Spring Boot Assignment - 2

This project is used to track tasks assigned to developers under projects.

This project uses:

- Spring Web
- Spring Boot DevTools
- Spring Data JPA
- Lombok
- Postgres SQL Database

Data Persistence: The project uses a Postgres SQL database for storing the developers, projects they are working on and the tasks assigned to them.

Postgres SQL Database properties:

Database name- taskdb

Entities:

1. Project - The list of projects that exist.
Fields - Id (Auto-generated by database), name, description and a set of Developer entities (One to Many mapping)
2. Developer - The list of developers available to work on projects.
Fields - Id (Auto-generated by database), name, a set of Project entities that a developer can work on (Many to Many mapping) and a set of Task entities that a developer can have assigned to them (One to Many mapping).
3. Task - The list of tasks available to be assigned.
Fields - Id (Auto-generated by database), name, description, status (enum), priority (enum), dueDate, Developer entity to whom the task is assigned.

Endpoints and their functionalities:

<u>URL</u>	<u>Method</u>	<u>Description</u>
/project/{id}	GET	Retrieves a movie from its id
/project	POST	Create and add a project to the database

/dev	POST	Create and add a developer to the database
/dev/{id}	GET	Get a developer based on project Id
/devs/overdue	GET	Get the developers who have tasks which are overdue
/tasks	POST	Create and add a task to the database
/tasks/{id}	GET	Get a task based on its Id
/tasks/{id}	PUT	Update the status of a task
/tasks/overdue	GET	Get the tasks which are overdue.