

Fullstack Engineer Assessment

Requirements

Build a **Task Management API** with role-based access, enabling two types of users: **Employer** and **Employee**.

User Stories

1. Employee Role:

- **View Assigned Tasks:** An *Employee* can only view the tasks assigned to them.
- **Task Status Update:** An *Employee* can update the status of their tasks (e.g., "In Progress," "Completed").

2. Employer Role:

- **Create and Assign Tasks:** An *Employer* can create tasks and assign them to specific employees.
- **View All Tasks with Filtering and Sorting:**
 - Filter tasks by:
 - **Assignee:** View tasks assigned to a specific employee.
 - **Status:** View tasks based on status (e.g., "Pending," "In Progress," "Completed").
 - Sort tasks by:
 - **Date:** Sort tasks by creation date or due date.
 - **Status:** Sort tasks by task status to see active or completed tasks first.
- **View Employee Task Summary:** An *Employer* can view a list of all employees, each showing:
 - Total number of tasks assigned.
 - Number of tasks completed by each employee.

Evaluation Criteria

- **Code Quality:** Efficient, clean, testable and modular code using Python/Golang/Javascript, using best practices of each language.
- **Database Management:** Proper schema design, query efficiency, and data handling for filtering and sorting.
- **Role-Based Access Control:** Implementation of authentication and role-based authorization.
- **Deployment Knowledge:** Successful Docker + Docker Compose or K8s setup with clear documentation.