**Task Management System**

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**GitHub Repository:** [Task Management System](https://github.com/Mosshato/TaskManagementSystem)

**Project Overview**

The **Task Management System** is designed for companies and small businesses to efficiently manage tasks. It offers three distinct login roles:

1. **Employee** - Can view and complete tasks assigned to them.
2. **Manager** - Can assign tasks to employees.
3. **BigBoss** - Can create a company, register managers and employees, and oversee task management.

Each role has specific functionalities tailored to their responsibilities in the task management process.

**Application Navigation**

* **Company Creation:** A BigBoss can create a company, which generates a company code.
* **User Registration:** Employees and Managers can register using the company code or can be added directly by the BigBoss.
* **Task Assignment:**
  + Managers can assign tasks to employees.
  + Employees can only mark their assigned tasks as completed (i.e., delete them from their task list).

**Project Structure**

**1. Controllers**

* UserController - Handles API requests and user interactions.

**2. DAO (Data Access Objects)**

* CompanyDao - Handles database operations related to companies.
* TaskDao - Manages task-related database interactions.
* UserDao - Deals with user-related database queries.

**3. DTOs (Data Transfer Objects)**

* UserDTO - Data transfer object for user-related data.

**4. Models**

* Company - Represents the company entity.
* LoginForm - Manages login credentials.
* Role - Defines user roles (Employee, Manager, BigBoss).
* SignUpForm - Handles user registration.
* Task - Represents tasks in the system.
* User - Stores user details.

**5. Database Connection**

* DBConnection - Manages the connection to the database.

**Database Structure**

* **COMPANIES Table**
  + ID, COMPANY\_NAME, COMPANY\_CODE, EMP\_NUM
* **TASKS Table**
  + ID, DESCRIPTION, CREATED\_AT, DUE\_DATE, ASSIGNED\_USER\_ID
* **USERS Table**
  + ID, FULL\_NAME, EMAIL, PASSWORD\_HASH, PASSWORD\_SALT, USER\_TYPE, COMPANY\_ID, TASKS\_NUM

**Access Permissions:**

* Employees have access only to their tasks.
* Managers can assign tasks but not access company-wide data.
* BigBoss has full access to company-related data.

**Features Overview**

**Frontend Files**

* dashboard.html - Displays task assignments.
* index.html - Landing page for the system.
* login.html - User login interface.
* select\_role.html - Role selection screen.
* signup.html - User registration page.

**Styling**

* script.js - Handles frontend logic and API calls.
* styles.css / styleDashboard.css - Styles for UI components.

This document provides an overview of the **Task Management System**, explaining its core functionalities, navigation, database structure, and project components.