

Software Development Project Management

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Project Description:

Software Development Project Management aims to organize software projects' flow and monitor the development process. It allows to create project and monitor the total development process easily. This project is based on CLI(Command line interface). It will help the developers and managers to organize their projects without any hassle.

1. Create Project:

This functionality allows user to initialize a project. This functionality uses **create_project** and **set_priority** function.

i. **create_project:**

Creates a new project with the given name. If the project already exists, it checks whether it is ongoing or completed. If ongoing, it adds the project to the projects.csv file.

ii. **set_priority:**

Allows the user to set priorities for ongoing projects. The function displays a list of ongoing projects and prompts the user to assign priorities to them.

2. Show Projects:

This functionality allows user to shows already existing projects. This uses show_projects function.

i. **show_projects:**

Displays a list of ongoing projects sorted by priority.

3. Edit project:

This functionality allows user to edit already created projects' information. This functionality uses many functions.

i. **edit_project_info:**

Allows the user to edit various information for an ongoing project, such as requirements, client info, team members, estimated cost, and due date.

ii. **add_req:**

Adds requirements to the specified project file and updates the requirements file.

iii. **add_file_req:**

Adds requirements to the specified project file's requirements file.

iv. **add_client_info:**

Adds client information to the specified project file.

v. **add_team:**

Adds team members to the specified project file.

- vi. **add_estimated_cost:**
Adds estimated cost to the specified project file.
- vii. **add_due_date:**
Adds a due date to the specified project file.
- viii. **req_comp:**
Allows the user to mark completed requirements for a project.
- ix. **mark_project_as_complete:**
Marks a project as completed and updates the projects.csv file.

4. View Project Info:

This functionality allows user to view projects' information. This functionality uses various functions.

- i. **show_project_info:**
Allows the user to view various information for a specific project, such as requirements, client info, team members, estimated cost, due date, and requirement completion status.
- ii. **show_reqs:**
Displays the requirements for a specific project.
- iii. **show_team:**
Displays the team members for a specific project.
- iv. **show_client_info:**
Displays client information for a specific project.
- v. **show_estimated_cost:**
Displays the estimated cost for a specific project.
- vi. **show_due_date:**
Displays the due date for a specific project.
- vii. **show_project_req_comp:**
Displays the completion status of requirements for a specific project.

5. Project Current due status:

This functionality allows user to due date for the projects. This functionality uses **view_due** function.

- i. **view_due:**
Displays the due status (overdue or remaining days) for ongoing projects. The function then prints the project names along with their due status in the console with two types of color determining current due status.

6. Project Progress:

This functionality allows user to progress for the projects. This functionality uses **show_project_progress** function.

i. **show_project_progress:**

Displays the progress bar for the completion status of requirements for a specific project. Uses colored text to enhance visual representation (green for high completion, yellow for moderate, and red for low).

7. Padding:

This was added to add some lines to see the cli visually clear.

i. **padding:**

Prints a separator line to visually separate sections in the console output.