Project-Lab

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Project-Lab

Build your own project

and manage your tasks easy

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What is Project-Lab?

Project-Lab is a project and task management application that helps quick and efficient work organization within projects.

Authorization Management

The application provides three levels of authorization:

- admin (administrator)
- manager (project manager)
- employee (project participant)

Initial access to the application is recommended for the admin user. After logging in, the administrator has the ability to create users. At the bigining, new users have no predefined authorizations, and the system will stop their access after logging in. The administrator must be give permission to the new user to continue their session.

The application also allows user registration.

Projects

Creating projects falls under the role of the administrator. A „manager" is the leader of the project, who must be selected from among the users who have manager role. Afterward, participants with „employee" role can be added or removed from the created project. This functionality is available to both the admin and the manager. However, it's important to note that participants can manually leave the project, with the exception of the project manager. In that case, the manager can be changed in the editing section.

There is an option to set the status of the project. Newly created projects automatically receive active status, but it can be manually changed after creation. The system displays only active projects which are assigned to the current user. However, the admin user can see all projects, regardless of their status.

Tasks

Tasks can be created within projects and it can be assigned to project participants. Several employees can work on a single task, and participants can also attach a selected task to themselves. It's important to note that within the project, both the administrator, the manager, and participants can create tasks. To organize the workflow efficiently, the system allows prioritizing tasks and managing their statuses. When a participant finish a task, then can set it to „Completed" status. This notify the manager, who can make a decision to accept the task or perform other status operations.

Deadline Management

The application provides to manage project and task deadlines, which the system monitors. Five days before the deadline expires, participants receive notifications if the project and/or task still have an active status.

The Project-Lab application also enables communication. Users can communicate with each other within projects and tasks. Unread messages are indicated in two ways: firstly, with a red envelope icon in the interface table, and secondly, with a red bell icon in the table action menu under the „Comments" button.

Application Deployment

To deploy the application, it is necessary to install Docker on the computer. After that, follow these steps:

- Run Docker.
- In a command prompt, navigate to the ProjektLab folder.
- Execute the following command: docker-compose build && docker-compose up.

The application will be accessible in the browser at **'frontend.localhost:5180'**.

First Login

To facilitate the first login, during application deployment three users are created:

role	e-mail	password
admin	admin@projektlab.hu	admin
manager	manager@projektlab.hu	manager
employee	employee@projektlab.hu	employee