

# KoProject

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## *Structure Project Management*

### 1. Getting Started

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Nowadays our daily routine in the office is so dynamic that sometimes it is difficult to organize our tasks no matter how hard we try. Thanks to our project management software this will be no longer a problem.

The application provides to company's employees possibility to check details of all projects and tasks they assigned. This will helping them to manage their time properly and be able finish the project within the time specified by the client.

### 2. Used Technologies

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1. **Python** – handle with back-end such as business logic, validations and etc.
2. **Tkinter** – handle with front-end
3. **JSON** for file persistence

### 3. User Roles

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1. **Employee** – main profile which allows user to watch the projects details he is involved in. Employee can add and edit tasks for the projects. User can create/read/update/delete messages that are related to the project.
2. **Admin** – extends Employee profile with additional functionality allowing administrator to manage all projects, tasks users and messages.

Users will not be able to use the application before registration.



## 4. Main Use Cases

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Scenario	Brief Descriptions
1. Login	<i>All users</i> that have valid account can login to application providing valid username and password.
2. Register	Available for <i>anonymous users</i> which do not have active profile.
3. Manage projects data	Only <i>administrators</i> have permission to add and delete projects. User can change limited project data such tasks and description.
4. Manage task data	<i>User</i> can make all CRUD operations for project tasks only if it's assigned to that project. <i>Administrator</i> can manage all the tasks.
5. Manage users	Administrators can add and remove users if it is necessary.
6. Manage profile data	<i>All users</i> can change their personal data.
7. Manage messages	<i>Users</i> are allowed to see all the messages in projects they are assigned. <i>Users</i> can send messages into that projects and also they can edit and delete them.  Admins can manage all sent messages.

## 5. Main Views

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View name	Brief Descriptions
1. Login/Register	Introductory view that allows employee to enter application with username/password and ability to register if he doesn't have account.
2. Home	Main view that lists all projects according to user profile. Administrator profile can see all available projects.
3. Project Details	Top level view showing all project details such as: users assigned, due date, tasks and etc.
4. Tasks Board	Kanban like board showing column based tasks for corresponding project according their status.
5. Project messages	View for relevant project where every involved user can leave their comments and messages.



## 6. Conceptual UML class schema

