

To-do list

You are requested to write a system that helps users view and manage their on-going tasks. |

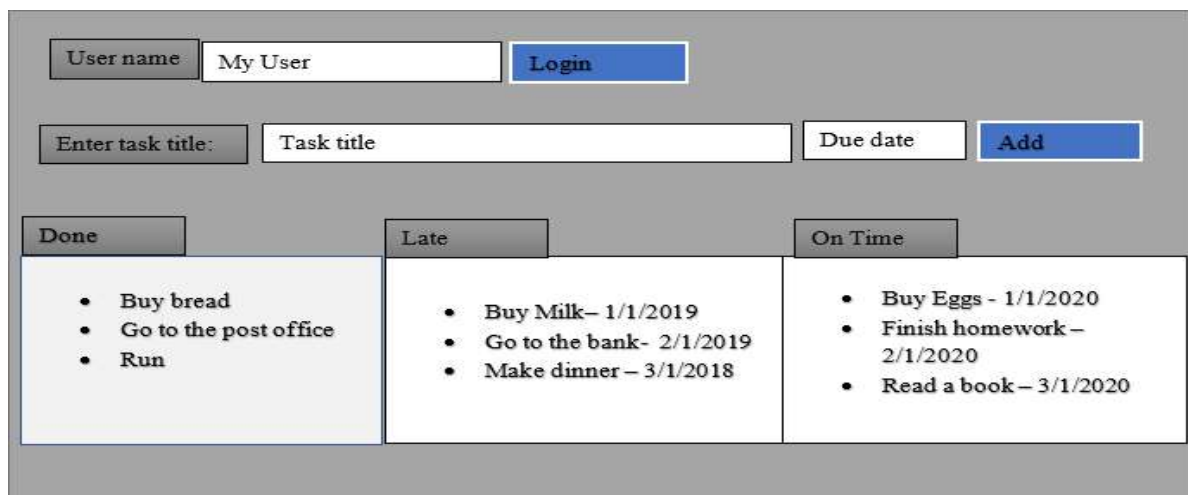
As a user of the system you can perform the following:

- Identify yourself to the system.
- Add a Task with due date.
- Mark a task as done.

The user will see only his tasks arranged in the following manner:

- All done tasks
- Late tasks which are not done
- On time tasks

Application wireframe: *this is only a suggestion to clarify the functionality. Any other application design is welcomed*



The wireframe shows a user interface for a To-do list application. At the top, there is a login section with a 'User name' label, a text input field containing 'My User', and a blue 'Login' button. Below this is an 'Add' task section with a label 'Enter task title:', a text input field for 'Task title', a 'Due date' label, and a blue 'Add' button. The main content area is divided into three columns: 'Done', 'Late', and 'On Time'. Each column has a header and a list of tasks. The 'Done' column lists 'Buy bread', 'Go to the post office', and 'Run'. The 'Late' column lists 'Buy Milk- 1/1/2019', 'Go to the bank- 2/1/2019', and 'Make dinner - 3/1/2018'. The 'On Time' column lists 'Buy Eggs - 1/1/2020', 'Finish homework - 2/1/2020', and 'Read a book - 3/1/2020'.

Assumptions:

- It is not a **must** to consider security issues or user management – users can pre-exist in the system and by entering a username that exists you will identify yourself.
- You are required to write the frontend application using Angular (2+) unless mentioned otherwise.
- You are required to write a restful API preferably using .NET core (Web API) unless mentioned otherwise.
- It is not a **must** but “Dockerizing” the client & server could be a huge bonus.
- Database access can be any ORM (EF Core/NHibernate or any of your choice)
- Emphasise of this test is on proper architecture and design.
- Application does not have to run (although it would be nice if it would 😊)
- Task should be handed over within 4 hours from receiving.

Good luck!