**To-Do List App**

The To-Do List App is a simple yet effective tool for managing tasks and staying informed about deadlines and upcoming tasks. It is build using Flask as the backend framework, Jijna for rendering templates, and bootstrap 4 for a responsive and user-friendly interface.

**Key Features-**

* Add tasks with details like name, description, category, due date, and time.
* View all tasks in a user-friendly list format.
* Receive notifications for overdue or upcoming tasks.
* Dismiss notifications or mark tasks as completed.
* Responsive and interactive design using Bootstrap.

**Backend: Flask Application-**

* **Flask Routes and Functions**

1. **/add\_task API –** interacts with addTask.html page, allowing user to create a new task.
2. **/view\_task API –** interacts with viewTask.html, allowing user to check all task.
3. **/addTask API –** receive create new task data and store in database.
4. **/all\_task, /default\_task, /personal\_task, /shopping\_task, /wishlist\_task, /work\_task API –** these APIs show the category wise tasks.
5. **/deleteTask/<user\_id>/<active\_table>API-** delete the task from the specified category. It also displays the category table where the delete action was performed.
6. **/updateTask/<user\_id>/<active\_table>API-** receive user id which task will be updated and fetch the data into the update task form.
7. **/new\_Update\_Task/<user\_id>/<active\_table>API-** update the task from the specified category. It also displays the category table where the update action was performed
8. **/notification\_task API-** showing the notifications and count of notifications.
9. **/deleteNotification/<user\_id> API-** delete the notification.

**Frontend: Jinja templates-**

* **Templates-**

1. **index.html-** main landing page that inherit other templates.
2. **navbar.html-** inherit view task, add task and notification button.
3. **addTask.html-** used for create a new task.
4. **viewTask.html-** used for displayed the all task.
5. **taskTable.html**- displayed all tasks according the task category.
6. **NotificationTask.html**- displayed all upcoming and overdue tasks.
7. **updateTask.html-** update the task data.
8. **popUpNotification.html-** used for pop the notifications

**Conclusion-**

This To-Do List application provides an efficient way to manage tasks and stay informed about deadlines through notifications. It combines a simple, user-friendly interface with robust backend logic to enhance productivity. Data will be refresh in every 60 seconds.