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I am currently enrolled in the Diploma Programme of BS Online Degree at IIT Madras.

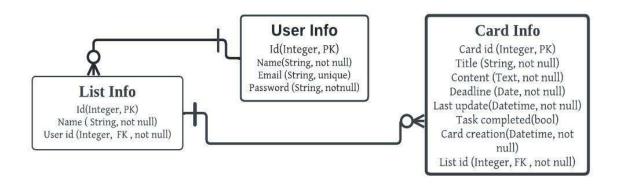
Description

Kanban project is all about building a task management application for anyone who wants to keep track of the ongoing and upcoming activities.

Technologies used

S.No.	Technology Used	Description/Purpose
1.	Python flask (Jinja2: render_template, url_for, redirect, flash)	Flask: used to create web application render_template: To render HTML files for generating outputs on webpage url_for: Generates the dynamic URL for any defined function redirect: To redirect to the path found by url_for flash: To flash warning, alert messages or any other notification
2.	Flask Login	Flask Login provides the user session management in Flask. UserMixin validates the login credentials of the user.
3.	Flask WTF	Used to create forms such as login form, registration form and also validate the WTForms.
4.	Bootstrap	Used for aesthetics for the front end.
5.	Flask CORS	Connects the built application and database to the web server
6.	Flask Moment	Used to get the timestamps
7.	Flask RESTful	Builds REST APIs
8.	Flask Excel	Used to import and export the data from Database in excel format
9.	Flask SQLAlchemy	Connects application to database
10.	Flask Bcrypt	Used to hash password and also checks the hashed passwords
11.	Google Chart	Used for user interactive charts for the summary of work progress.
12.	HTML / CSS	To design and structure the front-end of the application.

DB Schema Design



Reasons for designing above schema:-

- User can have multiple lists/tasks
- A list can have multiple cards/tasks.
- Cards have all details about the task.
- Users can perform actions (update, delete, move, etc.) on lists and cards.

API Design

- CRUD API for List (Create , Update, Read and Delete)
- CRUD API for Card (Create , Update, Read and Delete)
- CRUD API for Summary (Read)

Architecture and Features

All controllers are in the app.py file, all templates are in the template folder and all css files and images used for the purpose of styling are in the Static folder. The Kanban application has a separate dashboard for every user where all the lists and cards are managed. A user can create, edit, delete lists, and visualize the summary of lists in charts and excel format. Users can create, edit, delete, and move cards as per the requirements.

Video

https://drive.google.com/file/d/13ajV_HoDWAgSrBUSiz8LDBYY3r5QJ_AP/view?usp=sharing