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Description

Kanban provides improvements in the workflow. With visual representation of the workflow, speed of moving from one task to another is reduced. This is accomplished through the creation of clearly marked flow lanes, Kanban cards and clearly marked columns to indicate where each item is in the workflow.

Technologies used

- **Flask**: for basic backend Implementation.
- **Flask_sqlalchemy**: for implementing Database.
- **datetime**: for storing the date for the deadline.
- **Matplotlib**: for visualizing graphs.
- Some inbuilt libraries like **jinja2**, **render_template**, **redirect**, and **url_for** displaying HTML content.
- **flash**: to show an alert.

DB Schema Design

There are 3 Tables in the DB.

- **User** table

Store details about users registered.

user_id: Unique id of the user.

username: Username of the user.

password: password of the user.

email_id: Email of the user.

- **List** table

Stores all the decks.

list_id: Unique id of the list.

title: Name of the list

desc: Description of the list.

user_id: user_id of the user

- **Card** table

Store details about all cards

card_id: Unique id of the card.

card_title: Name of the card.

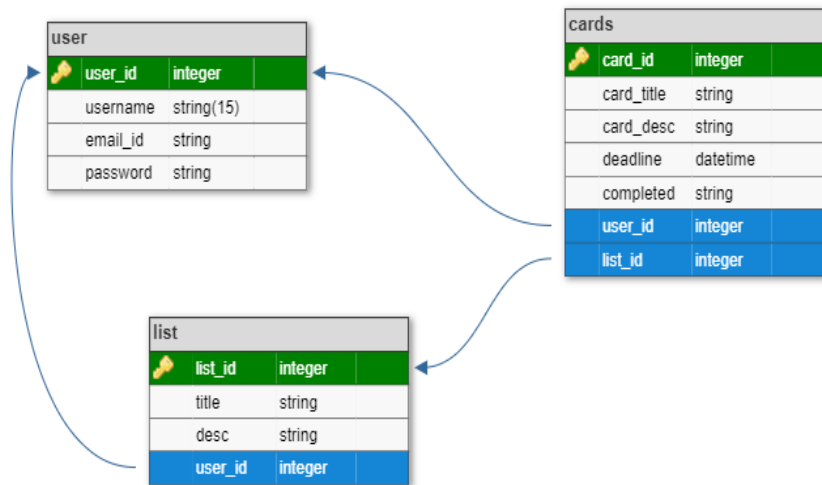
card_desc: Description of the card.

deadline: deadline of the card.

Completed: status of the card.

user_id: user_id of the user.

list_id: Unique id of the list.



DB Design of Database

Architecture and Features

- There are 2 folders, 1. **static**: It contains some CSS files and images, 2. **templates**: It contains all HTML templates used in Project.
- **sign-in / sign-up system**: Here user can fill in all details for creating a new account and after that user will be able to do a sig-in.
- **Dashboard**: This page has all lists and tasks where you can edit and delete particular lists and cards and also see the deadline of the task and the status of a card.
- **Functionality of List**: Here user will be able to create, delete and update a list name and description.
- **Functionality of Task**: Here the user will be able to create, delete and update cards and cards have a deadline and status of a card that represents the task is complete or Incomplete.
- **Summary Page**: This page defines the Number of all Complete and Incomplete Task and also represents a Graph that shows how many Tasks were completed, Pending, and that Task whose deadline has passed.

Architecture and Features

<https://drive.google.com/file/d/10pfgG1i7gUd-F3BBs4r0ueGEdWAUJD43/view?usp=sharing>

