



Kanban Board

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Architecture

- Project management tool used to facilitate the organization of tasks
- Relies on Streamlit, a Python framework used by data scientists to manage easy-to-read apps and webpages
- Organization using SQLite
 - Four tables: “Backlog”, “To Do” , “Doing” , and “Done” correlating to categories for the tasks
 - Tables have rows containing “Name”, “Task”, “Type”, “Due Date”, and “Description” for each task



Architecture (cont)

- Streamlit enables users to enter data and interact with features within its forms corresponding to options within their databases
 - Forms present 3 buttons for each task: “Save”, “Delete”, and “Mark Done”
- The title of each form mirrors the name of the task, the name of the column, and the days until due date
- Sidebar Widgets:
 - Kanbot - AI model generating responses to Kanban Board questions
 - Kanban List - organizes and presents task information

requirements.txt

```
1  openai==1.20.0
2  pandas==2.2.2
3  streamlit==1.33.0
```

Installing Dependencies

- Install dependencies in provided text file:
 - ***pip install -r requirements.txt***
- Running the program:
 - Local: ***streamlit run main.py***
or
 - Hosting via streamlit:
Create streamlit account



Deploy an app

Repository

[Paste GitHub URL](#)

giovannim1563/repo

Branch

master

Main file path

streamlit_app.py

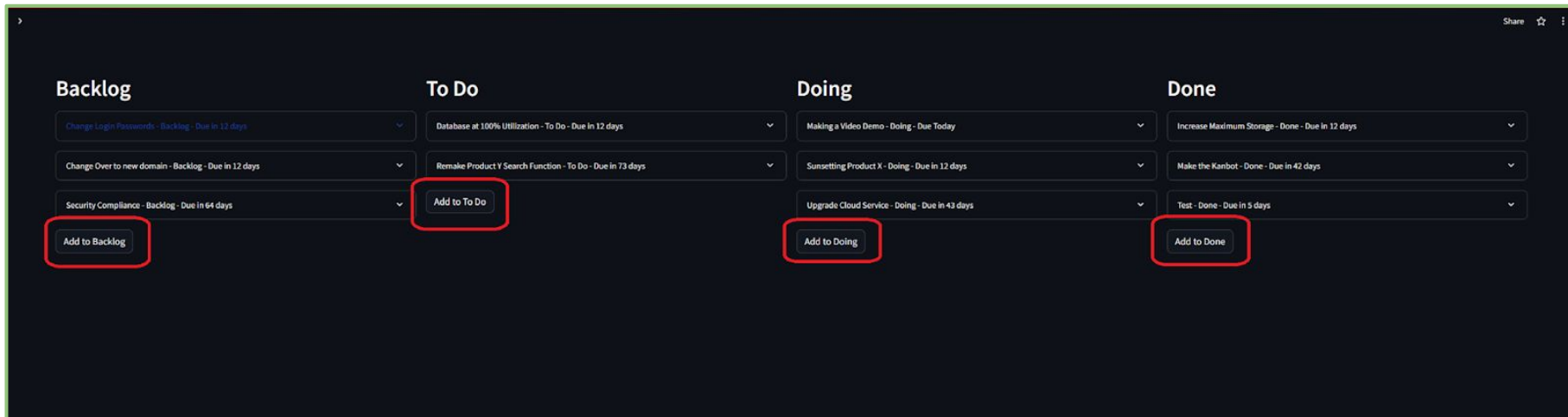
App URL (Optional)

[.streamlit.app](#)

[Advanced settings...](#)

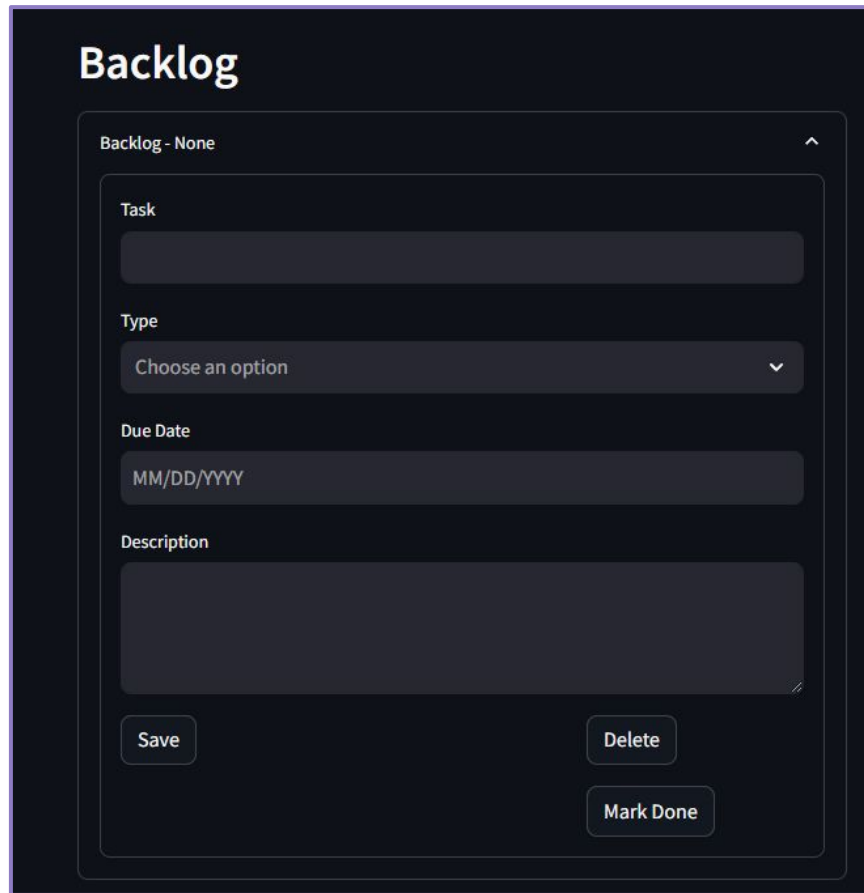
Deploy!

User Experience - adding a task



- Each column contains a button to add a task to that specific category
- Users would then click onto the newly created task to add information such as title, description, due date, etc.

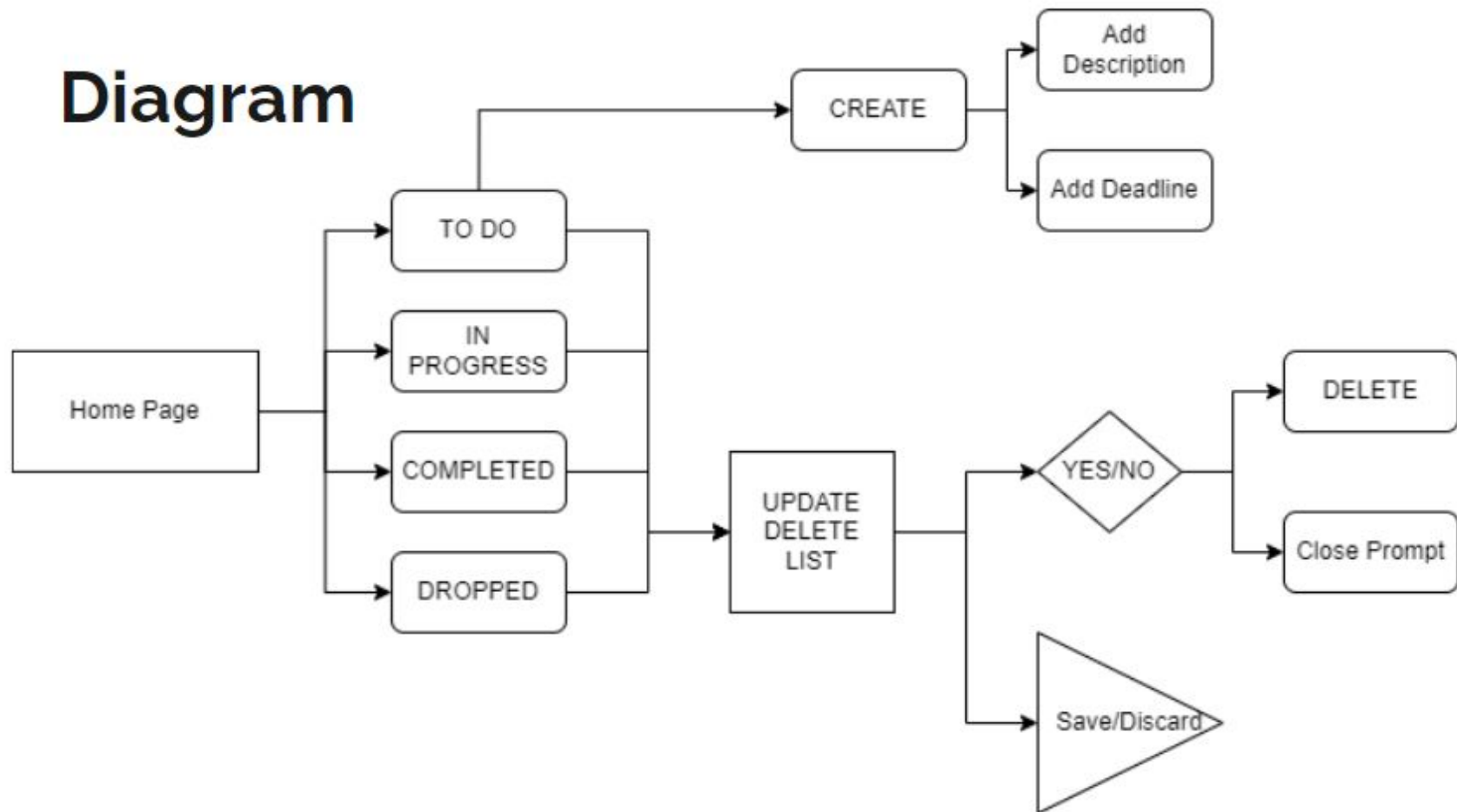
User Experience - editing a task



The image shows a dark-themed user interface for editing a task in a 'Backlog'. The title 'Backlog' is at the top left. Below it, a header 'Backlog - None' with an upward arrow is visible. The form contains four input fields: 'Task' (a text box), 'Type' (a dropdown menu with 'Choose an option' selected), 'Due Date' (a text box with a date format 'MM/DD/YYYY'), and 'Description' (a larger text area). At the bottom of the form are three buttons: 'Save', 'Delete', and 'Mark Done'.

- Clicking on any task brings down a dropdown which contains a form, allowing users to make edits to that task
- From the dropdown, users can also delete and mark a task as done
- Marking a task as done moves it to the DONE column

Diagram



~ WIDGETS ~

Kanbot

- Kanbot is an LLM (large language model) assistant powered by ChatGPT API
- It is dynamically updated with the contents of your Kanban chart
- It can answer any questions pertaining to the tasks on the todo list
- Sample Questions:
 - When is <insert task> due?
 - How many tasks are in backlog?

KanBot

Your message

How many tasks are due today?

Assistant

There are 2 tasks due today.

1. Task: Change Login Passwords
Type: Client Request
Description: Change all of the passwords for staff, can wait
Due Date: 04-30-2024

2. Task: Database at 100% Utilization
Type: Research, Bug Fix
Description: Urgent, Needs work, office staff complaining about slow order retrieval speed
Due Date: 04-30-2024

KanBot

Your message

What does sunsetting in relation to produ

Assistant

Sunsetting in this context refers to the process of shutting down or discontinuing Product X. It involves finalizing any necessary tasks or updates, such as security patches, before officially ending production of the product. The deadline for sunsetting Product X is April 30, 2024.

What is the most important task?

Assistant

The most important task currently is "Database at 100% Utilization" as it is marked as urgent and is affecting office staff's productivity. This task should be prioritized to resolve the issue as soon as possible.



Kanban List

- Translates the database entries into formatted text by category
- Displays contents in an organized markdown box
- List is dynamically updated as new and old tasks are changed

Kanban List

Contents

Backlog:

Task: Change Login Passwords

Type: Client Request

Description: Change all of the passwords for staff, can wait

Due Date: 04-30-2024

Task: Change Over to new domain

Type: Implementation

Description: Need to transfer all staff emails to new domain, Sales staff first

Due Date: 04-30-2024

Task: Security Compliance

Type: Implementation

Description: Prepare Servers for intake and ensure privacy standards

Due Date: 06-21-2024

To Do:

Task: Database at 100% Utilization



Links:

- Kanban Board:
 - <https://grp3-prj-app.streamlit.app/>
- Documentation:
 - <https://docs.google.com/document/d/18iklARlkvR9vMtxO9Rls-8i2jDQxDcdOEI9joiH3Y0/edit>
- Github:
 - <https://github.com/GiovanniM1563/EGEC-363-GRP3-Proj.git>

~ Thank you for listening ~