

# Design Doc for p00 by DECK, pd. 5

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## PROJECT NAME: "LogDECK"

A Flask application utilizing SQLite databases to store and display blogs. Readers will create or log into accounts to read others' blogs or create and edit their own.

**TARGET SHIP DATE: 2025-11-10**

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## Program Components:

- **sqlite3** (backend data storage system)
  - **user\_master\_list** (stores relevant information for each user)
  - **blog\_master\_list** (stores relevant information for each blog)
  - **edit\_history** (stores edit history of all blogs)
- **Python** (application layer)
  - **app.py** (runs Python)
- **Flask** (web server/delivery framework)
- **html** (frontend display)
  - **homepage.html** (displays existing "blog" text)
  - **login.html** (checks entered login info against database)
  - **register.html** (adds new login info to database)
  - **profile.html** (displays user history)
  - **logout.html** (logs user out of session)
  - **create\_blog.html** (enables user "blog" creation)
  - **edit\_blog.html** (enables user "blog" creation)

**Our MVP:** A functional blogging platform with user login functionalities (including viewable profiles) and a functional logging system to track contributions to each blog.

We are using 3-to-4 technologies: SQLite, Python (to execute scripts to serve HTML web pages), Flask (to serve dynamic HTML pages), and CSS (to style the served HTML pages).

We want our backend data storage system (using SQLite) to store multiple types of information that make up our blogging platform and its functionalities, including but not limited to (for now): **user\_master\_list**, which is essentially a master list of all

users and related information (username, password, profile biographies, date of creation); **blog\_master\_list**, which is a master list of all the blogs with related information (name, creator, link, content, and date of the most recent edit); and **edit\_history**, which is a master list of all edits made to individual blogs (name of blog, blog creator, timestamp).

**user\_master\_list** is utilized by Flask through a Python script for the pages *login.html* (to retrieve and compare user input login to system stored login info), *register.html* (to see if user already exists, then to append new information), and *profile.html* (which displays the contents of **user\_master\_list**).

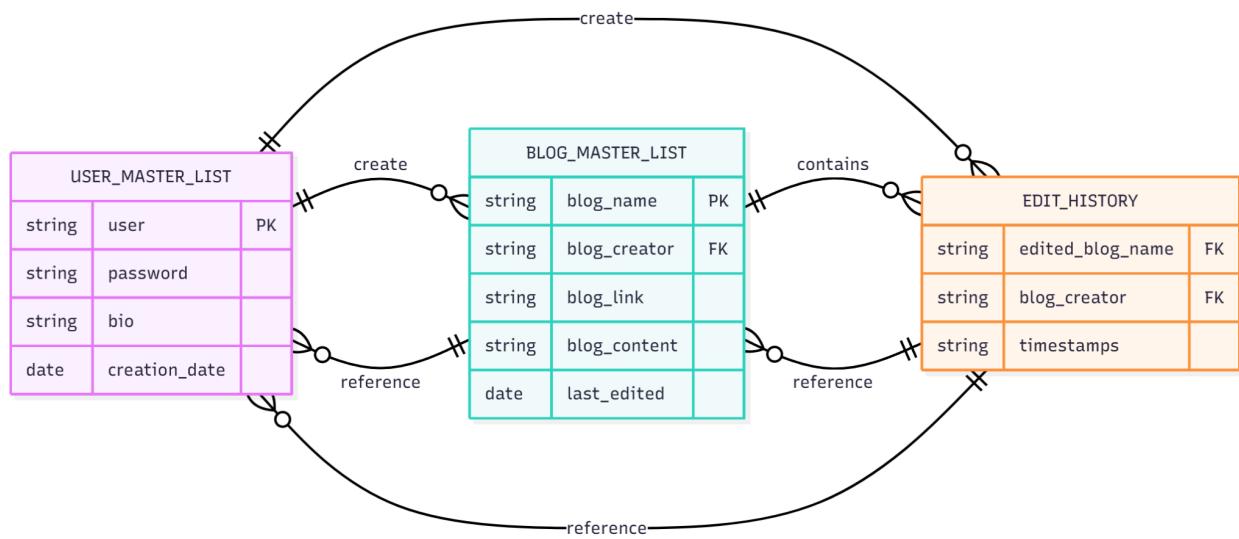
**blog\_master\_list** is used for *homepage.html* (displays all blogs available for viewing), *profile.html* (displays the user's own blog information), *edit\_blog.html* (to access and update blog\_content & update last\_edited), and *create\_blog.html* (to access and update blog\_content & update last\_edited).

**edit\_history** is used for *profile.html* (loop through all contributions, look for matching username to append to a list of that user's edit history), *create\_blog.html* (append first contribution after *create\_blog.html* form is submitted), and *edit\_blog.html* (append new contributions after *edit\_blog.html* form is submitted).

All pages are dynamic in nature, because they each have user-specific outcomes (changes made to user state) and/or interact with at least one database for the addition/removal of displayed contents on each page.

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## Component Map :



## Database Organization:

<b>USER_MASTER_LIST</b>			
string	user	PK	unique identifier of blog user
string	password		
string	bio		user customization of profile
date	creation_date		only populated once during acc. creation

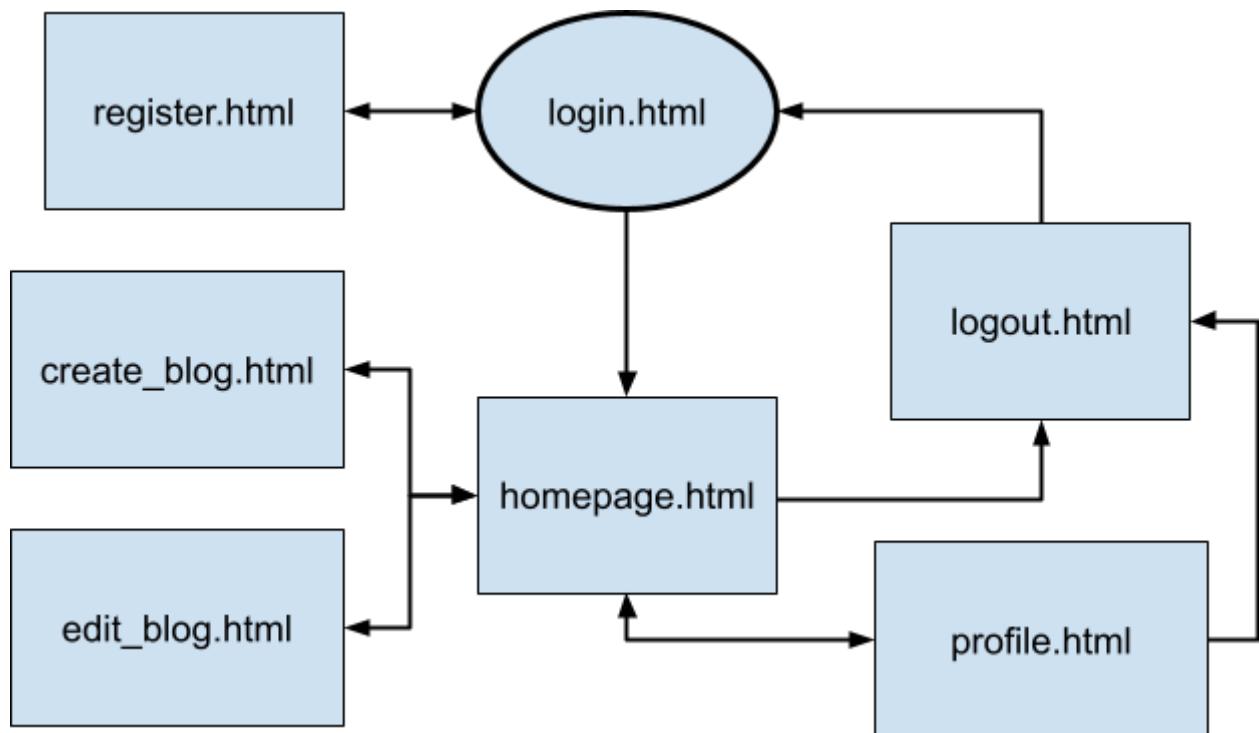
<b>BLOG_MASTER_LIST</b>			
string	blog_name	PK	unique blog names
string	blog_creator	FK	references users in user_master_list
string	blog_link		
string	blog_content		
date	last_edited		

## Database Organization (cont.):

EDIT_HISTORY			
string	edited_blog_name	FK	reference blog names in blog_master_list
string	blog_creator	FK	references users in user_master_list
string	timestamps		

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## Site Map:



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## Breakdown of Tasks:

- create \_\_init\_\_.py (ethan)
- create csv files (david)
- setting up sqlite3 databases in app.py (david)

creating templates + corresponding functions in app.py:

- homepage.html (cindy)
- login.html (kalimul)
- logout.html (cindy)
- register.html (kalimul)
- profile.html (david)
- create\_blog.html (ethan)
- edit\_blog.html (ethan)