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A list of program components(different files to do different things, data structures, functions) with role of each specified:

Database:

Credentials Table: Username|Hashed Password- For checking user credentials

User Blog Table: Username|Blog ID|Blog Name

Blog Contents Table: Blog ID|Blog Entry

HTML files:

Blog pages- For users to read & edit

Login page- To login/sign up

Home page- For navigation to blogs and the login page

Python script:

Flask routes- To handle navigation, errors, and displaying blogs

Data parsing functions- To read databases and keep web pages updated

Table modification functions- To update database with user edits (new accounts, new blog entries, etc.)

Search function- To locate blogs related to a query

Explanation of how each component relates to the others:

Database:

Credentials Table- Checked by data parsing functions, updated by table modification functions

User Blog Table- Contains info to be parsed by python functions and shown on website

Blog Contents Table- Contains info to be parsed by python functions and shown on website. updated by table modification functions

HTML files:

Blog pages- Routed by Flask in python, searched by search function

Login page- Routed by Flask in python, form data authorized by data parsing functions

Home page- Routed by Flask in python
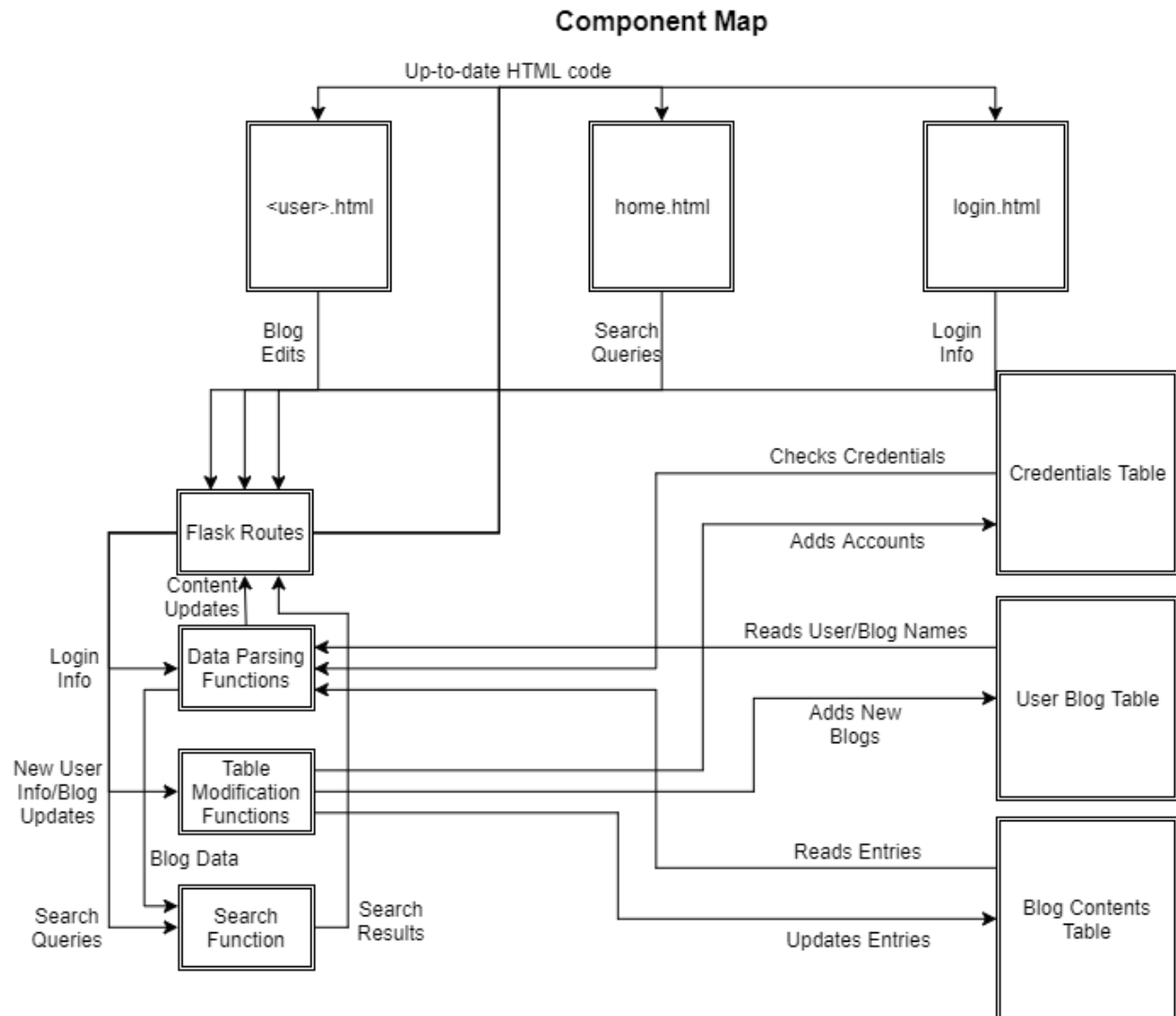
Python script:

Flask routes- Handles navigation of HTML files by URL

Data parsing functions- Reads data from tables and updates web pages

Table modification functions- Updates data tables

Search function- Finds blog entries related to a query

Component map visualizing relationships between components:

Component Map

Database Schema:

Credentials Table:

Username|Hashed Password- For checking user credentials

User Blog Table:

Username|Blog ID|Blog Name

Blog Contents Table:

Blog ID|Blog Entry

Site map for front end:

    - Add picture of home page, article pages, and login page all linking to each other

Home Page

(If just logged out)
Logout Successful!

Login

Welcome to This Blog Thing!

Search: <TEXTBOX>

<links to blogs>

Login/Signup Page

Log In

Username: TEXTBOX

Password: TEXTBOX

Login!
or
Signup!

Back to Homepage

Blog Page(s)

USER's Blog!

Logout (if logged in)

Entry A
I went to the grocery today.

Entry B
I failed my test today

Entry C
I graduated today

Edit blog (if it's the user's own)

A breakdown of the different tasks required to complete this project:

- Yiduo
  - being a dictator
  - Overseeing distribution of labor
  - Monitoring the development log
  - Making sure we're on schedule
- Md
  - Data parsing functions

- ○ Search function
- ● Donia
  - ○ Jinja templates
  - ○ Flask routing
- ● David
  - ○ Creation of databases
  - ○ Table modification functions