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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|Password- For checking user credentials

        User Blog Table: Username|Blog Name

        Blog Contents Table:Username|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

        Signup page - for creating a new account

        Layout Page- Contains html layout for other pages

        Error Page- Displayed when something that shouldn't be accessed is accessed

    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

        Sign Up page - routed by Flask in python for credentials and blogs tables to be modified

        Layout Page- For other files to inherit

        Error Page- The last case for most flask routes

    Python script:
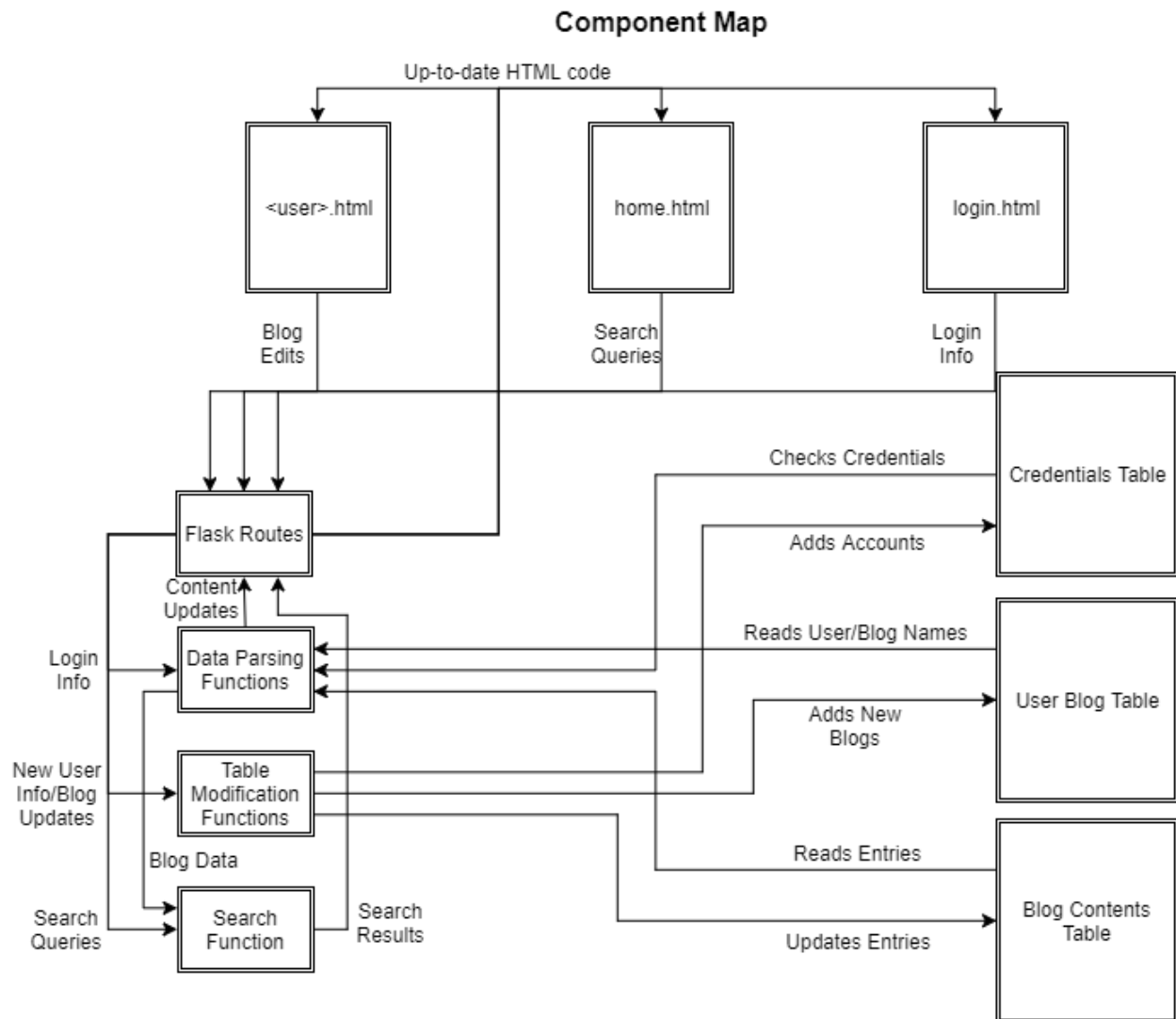
        Flask routes- Handles navigation of HTML files by URL

        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|Password- For checking user credentials
    User Blog Table:
        Username|Blog Name

Blog Contents Table:

Username|Blog Entry

Site map for front end:

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