

Team MD SQUARED: Md Abedin, Yiduo Ke, David Doktorman, Donia Tung

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

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

Python script:

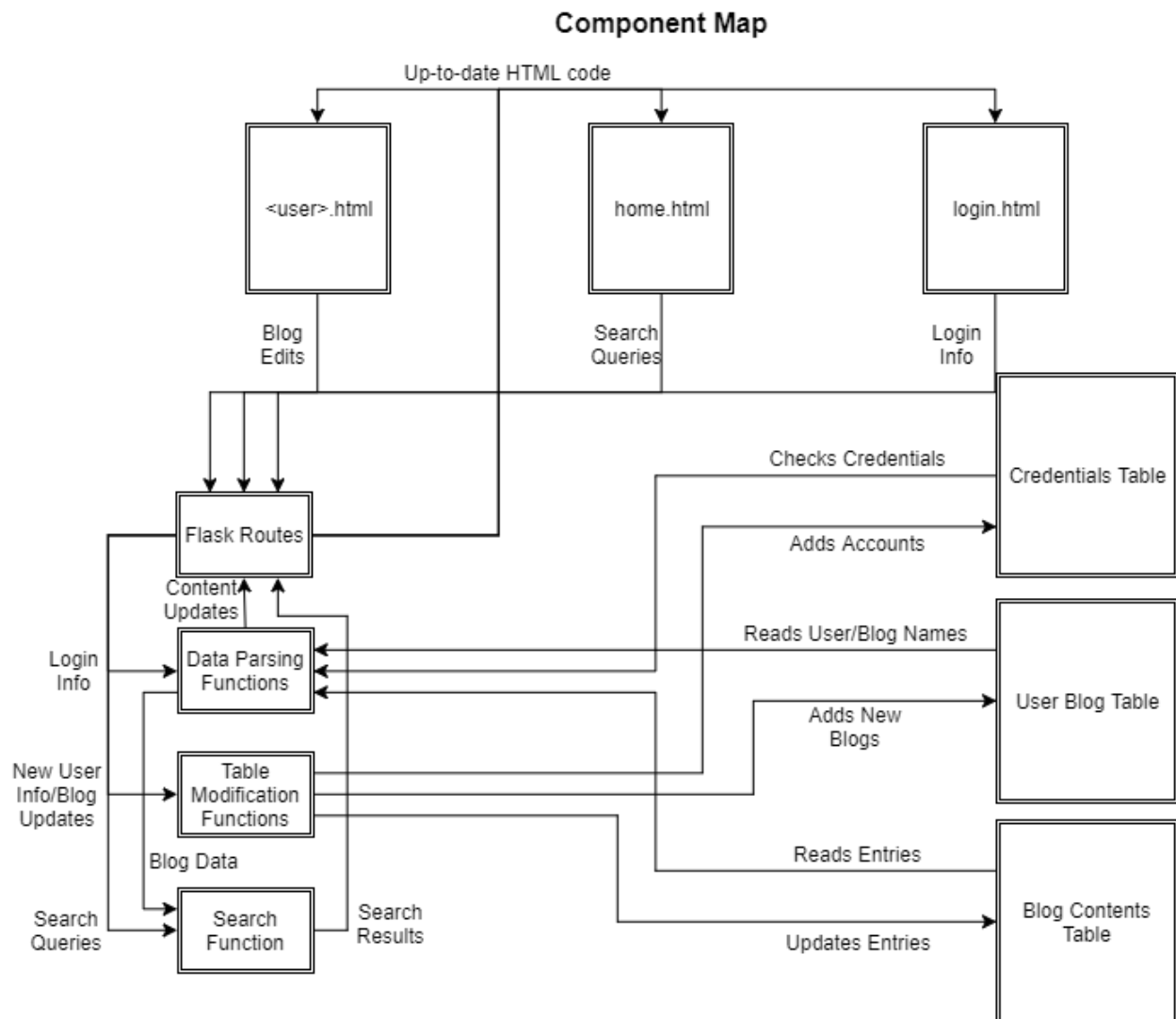
Flask routes- Handles navigation of HTML files by URL

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:



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