

Team My_Chelve: Yvonne Chan, Harry Lum, Elias Milborn, Emma Vukelj

Program Components:

`@app.route(/)`

Main page

Titles of recent blog posts:

- Includes title, timestamp, person who commented, what they commented

Search Engine

- Gives users ability to look for posts about certain topics

Login + link to register

`@app.route(/login)`

Login/Register forms that leads to authenticate

`@app.route(/logout)`

Link on every page after login that allows user to logout

Redirects back to main page that requires login once clicked

`@app.route(/authenticate)`

Authenticates the login credentials / registers you

Redirects to main or original page

Implements SQLite3 for databases to store usernames and passwords

Implements session to keep the user logged in

`@app.route(/createpost)`

If user is the blog owner, then he/she can access this route from the main page.

Contains form for title and content

Clicking submit will add the post to the database.

`@app.route(/<year>/<month>/<day>/<name>)`

Blog posts

Content of post (following HTML template)

Comment section for registered users (sqlite3 database)

`@app.route(/<tag>)`

Blog posts with certain tag

Content of post (following HTML template)

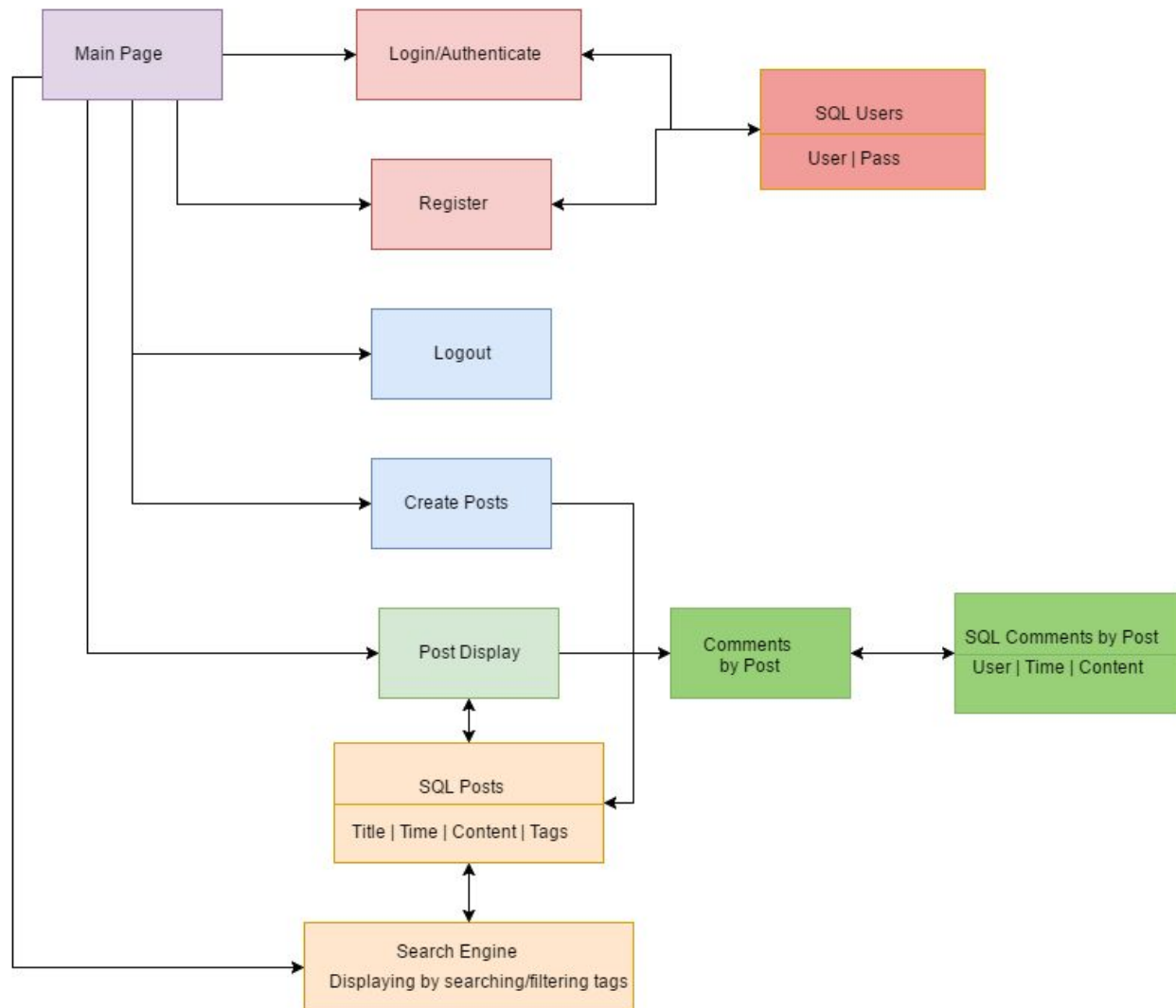
Comment section for registered users (sqlite3 database)

Component map and explanation

The main page (which displays posts) will be available to anyone. It will have a form for login and registration, and having an account will give comment abilities (or post writing abilities, if the logged in User is identified as the blogger). Both login and registration functionality will rely on

interactions with an SQL table of Users. This page will display posts by the blogger with the title, timestamp, and comments. Each comment will feature a user and a timestamp. These comments will be stored in an SQL table (one table per post). Lastly, there will also be a search bar that will allow the client to filter which posts they see, only loading posts featuring the filtered tags.

Component Map



Database Schema

We will use a table for Users, a table for Posts, and a table for comments for each post. Users will store usernames and hashed passwords of registered users. Posts will store the title, timestamp, content, and associated tags of each post. Comments by post will store the title of its linked post, the username of the author, a timestamp and the comment itself.

Headers for database tables

User table:

Username	Password (hashed)
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Posts table:

Title	Timestamp	Content	Tag (optional)
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Comments table:

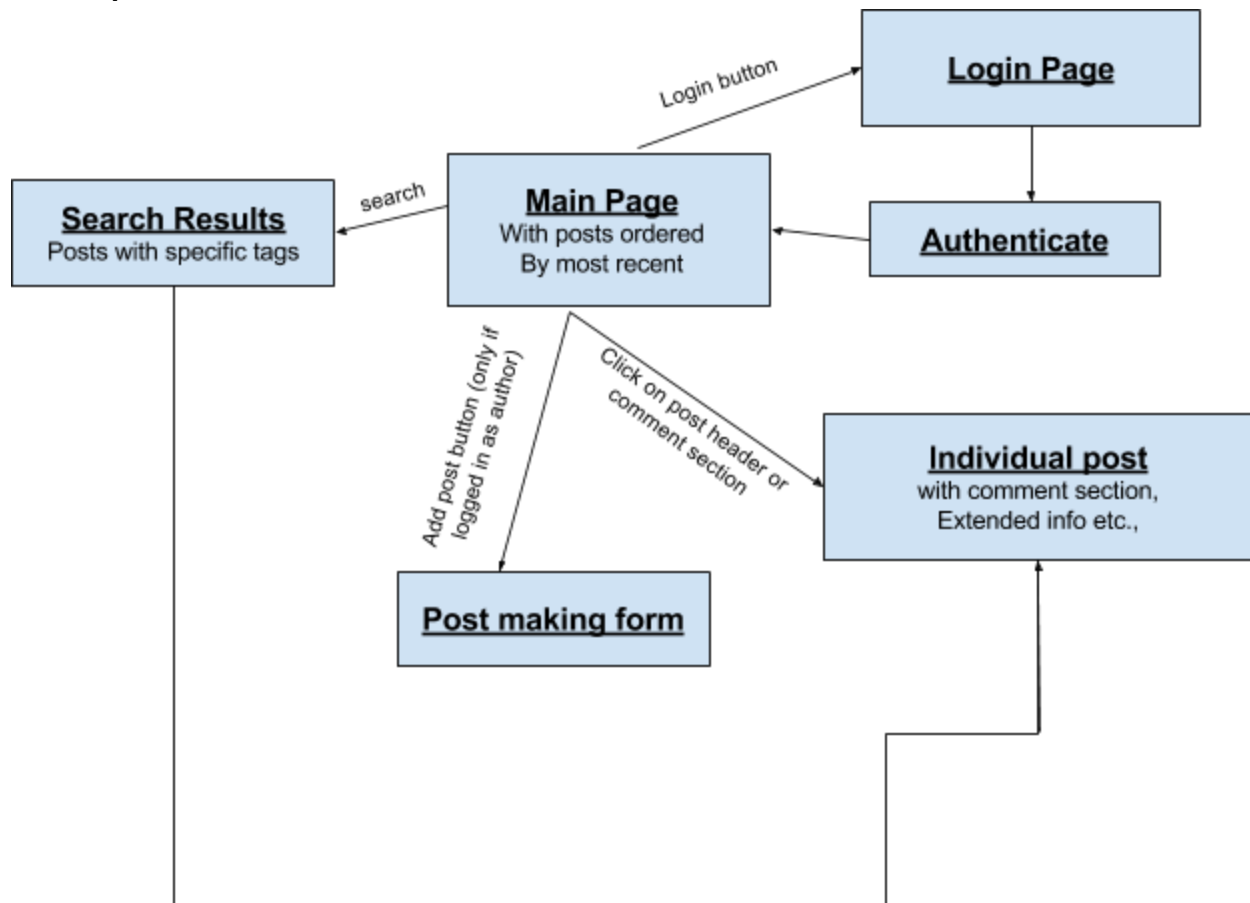
Title	Username	Timestamp	Content
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Templates

There will be several templates for the blog.

- 1) The main page, required since it will constantly update with the most recent posts. Will also be used to display results for the search function
- 2) Authenticate page, needed to indicate problems with logging in or registering.
- 3) Posts, to keep formatting consistent for each post

Site map



Task delegation

Leader who oversees entire website: Emma Vukelj

SQL Builder and Manager: Harry Lum

Front end (HTML templates): Yvonne Chan

Back end (python flask file): Elias Milborn