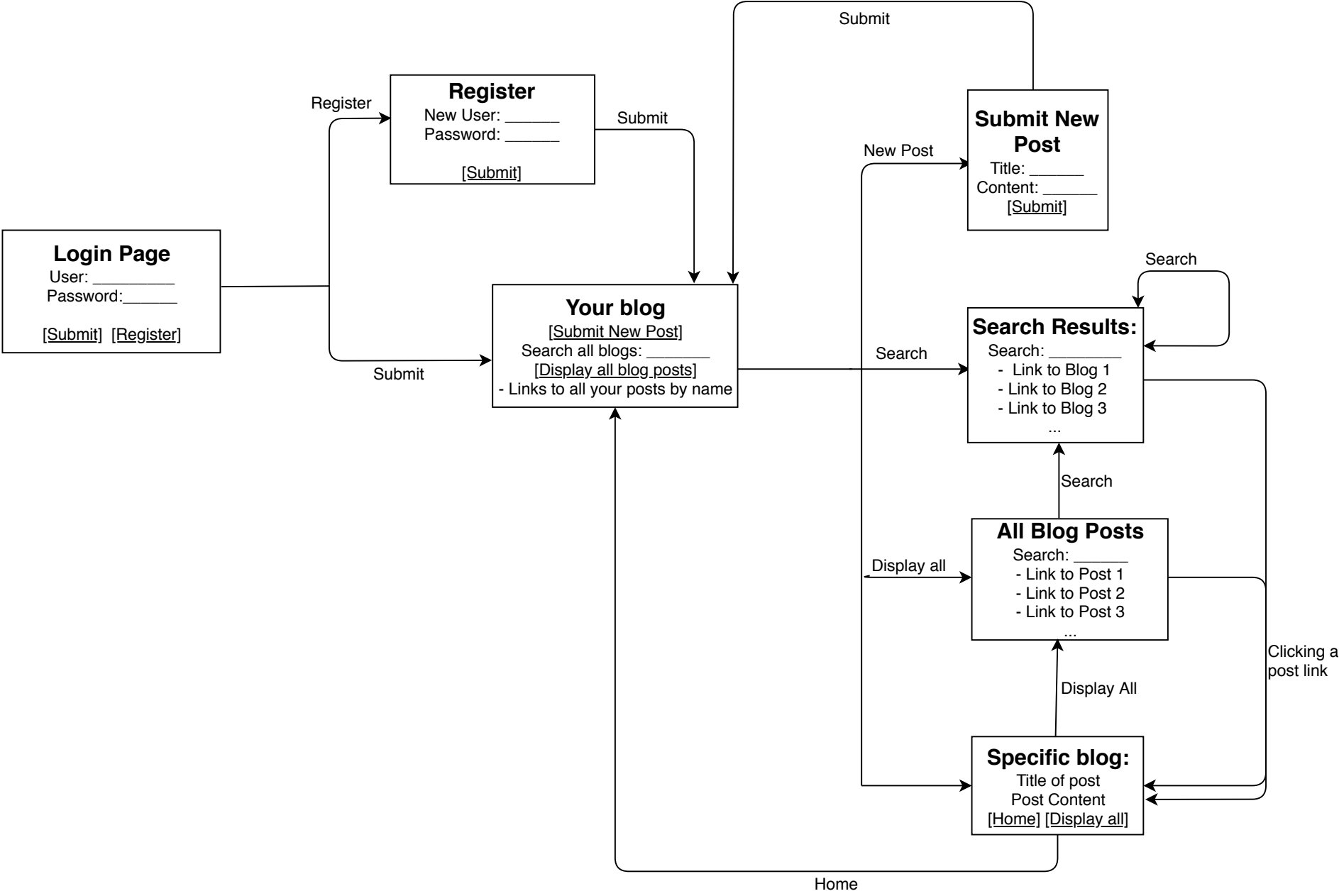
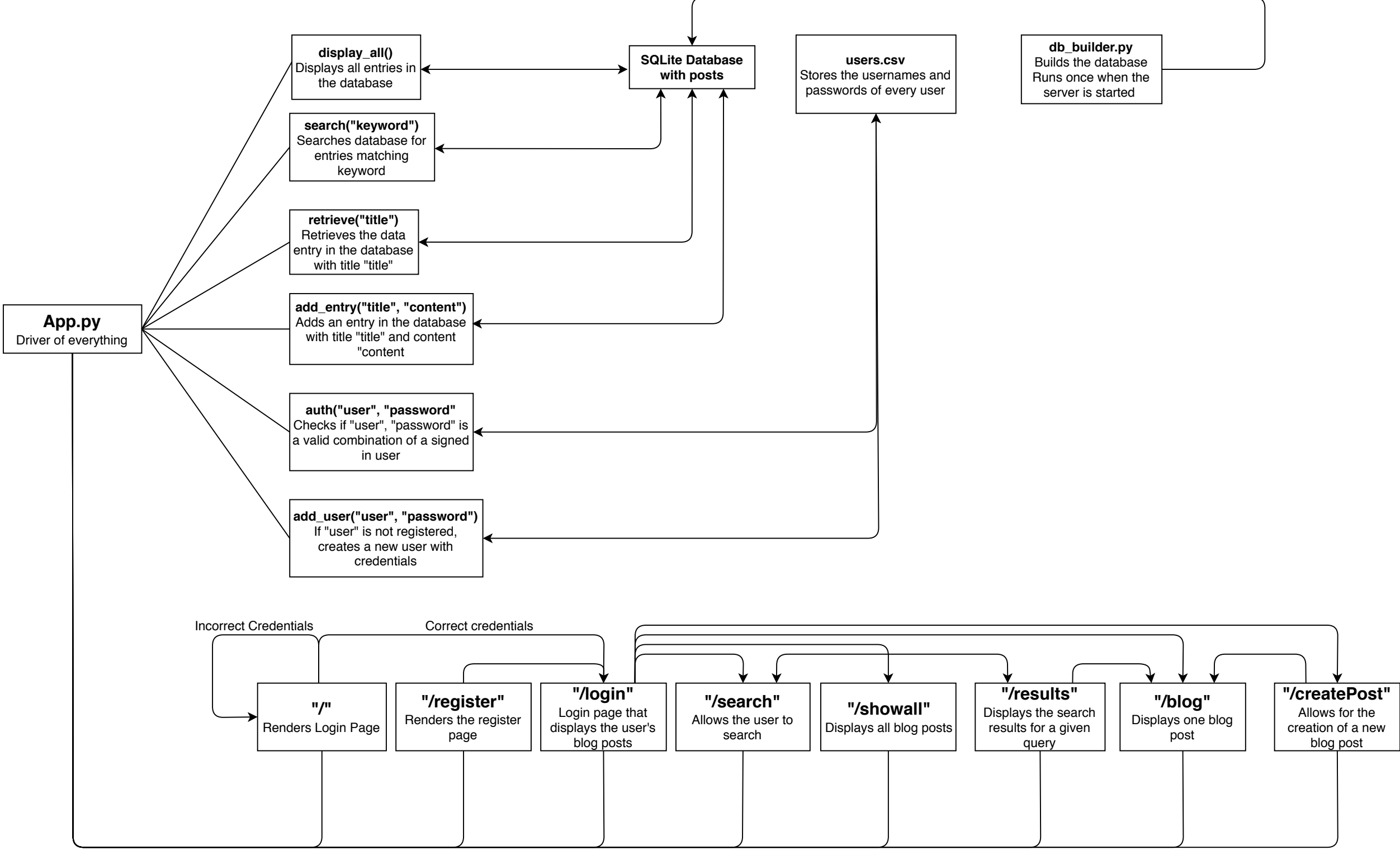


SITE MAP



COMPONENT MAP



DATABASE

<div>TABLE ONE AUTHENTICATION TABLE</div> <div>USERNAME: PASSWORD</div>	<div>TABLE TWO GOD POSTLISTING</div> <div>USERNAME: TIMESTAMP: POSTCONTENT</div>
<div>«to be used solely for authentication&gt;&gt; eg. moody, doof921 alex, nojuice</div>	<div>«read timestamp as MMDDYYHHMM» eg.  moody, 1018191245, "Here is my text for the blog &lt;br&gt; more text" thompson, 1019190745, "the second post" moody, 1012190955, "third post" lupea, 1014191845, "i love doing quack everyday"</div>

accessing the personal blog of someone is a linear time operation that requires the god post listing to be transversed

```
SELECT * FROM allposts WHERE username="moody"
```

## Program Components:

- Python files:
  - db\_builder.py:
    - Run only once. Creates database.
  - App.py
    - Functions:
      - search("keyword")
        - Loops through post-titles in the database and returns an array of posts which have titles that contain the keyword searched.
      - retrieveBlog("name")
        - Returns multidimensional array with all blog info
    - Contains site routes:
      - "/"
        - Login page
        - Renders "login.html"
      - "/register"
        - User is brought here after clicking the button labelled "register" on the login page.
        - Renders "register.html"
      - "/welcome"
        - User brought here when they press the button labelled "Login"
        - If the user and pass are correct, user is logged in with the session and "welcome.htm" is rendered.
        - If the user or pass is not correct, then the user is sent back to "/" with an error message.
        - User may also be brought here after registering an account. If there are no errors in the user's input, then "welcome.html" is rendered and the user is logged in.
        - If there are issues with the user's input, then they are sent back to "/register" with the appropriate error message.
        - User also brought here after creating and submitting a post. If none of the input is empty and not too long, then "welcome.html" is rendered and the post is added to the database. Else, user is sent back to /createPost with appropriate error messages.
      - "/search"
        - User brought here when they click on the search button on the welcome page.
        - Renders "search.html"
      - "/showall"

- User brought here when they click the “show all blogs” button on the welcome page.
  - Sends a 2D array with all blogs on it to the html file with list of blogs
  - Renders “showall.html”
- “/results”
  - User brought here when they click the search button in /search or /showall.
  - Renders “results.html”
  - Calls search function and sends the result to the html file.
- “/blog”
  - Brought here when you click on a blog from search or showall page
  - Renders “blog.html”
  - Takes output from retrieveBlog() and puts it into blog.html
- “/createPost”
  - Brought here when user clicks “create post” button on the welcome page
  - Renders “createPost.html”
- HTML files:
  - login.html
    - Simple login page with 2 text boxes and a submit button which sends you to “/welcome”
    - A submit button labelled “register” which sends you to “/register”
    - Variable which checks for errors and takes in error message from “/” after being sent back with wrong user or pass
  - register.html
    - Registration page with user and password and submit button
    - Sends you to “/welcome” once you are registered where login info is added to the database
  - Welcome.html
    - Displays “welcome to your blog [user]!”
    - List of posts below
    - Showall button on the side which takes user to “/showall”
    - Search button which takes user to “/search”
    - Create post button which takes user to “/createPost”
  - Search.html
    - Displays a search bar with submit button
    - Also has a showall button to /showall and home button to /welcome
  - Showall.html
    - Displays all blogs in a list through a 2D array brought in by /showall.
    - User can click on any blog and be brought to “/blog”
    - Also a back to home button to /welcome

- Results.html
  - Displays all blogs in a list which contain keyword searched through a 2D array brought in by /showall
  - User can click on any blog and be brought to their /blog page by sending in name of the blog to /blog
  - Back to home button and search bar at the top displaying what was searched. User can also search from this page, they will just be sent again to /results
- Blog.html
  - Just displays blog title at the top and then list of posts below
  - Home button on the side
  - Search button
  - Showall button
  - Very similar to welcome.html, possibility for use of a flash template
- CreatePost.html
  - Text box for post title
  - Text box for post content
  - Post button at the bottom
  - Back to home button next to post button