

**TEAM:** Bits Please

**ROSTER:** Elizabeth Doss, Jackie Lin, Yaru Luo, Emily Zhang

**SCENARIO:** 2

### Core Components

- A. Navigation Bar
  - Present on every page to easily log out and access profile, about page, and search page
- B. User Accounts
  - Users must register for an account and log in to use site
    - Each registered user will have their own profile, which will contain their user info and a list of their blogs
      - This site will serve as the **homepage** and can only be accessed after user has successfully logged in
    - Registered users can add blog posts or edit existing ones
- C. Search Bar (with options)
  - Users can view other users' blogs using a search form and will select for the type of search through a drop down menu
    - They can search for a specific username
    - They can search for a specific blog (by keyword)
    - They can search for a specific entry (by keyword)
- D. Blog
  - Users will be allowed to create multiple blogs
    - Owner of the blog allowed to add/edit posts
    - Each post will display title, link to user profile, and content

### Optional Components (if we have time!)

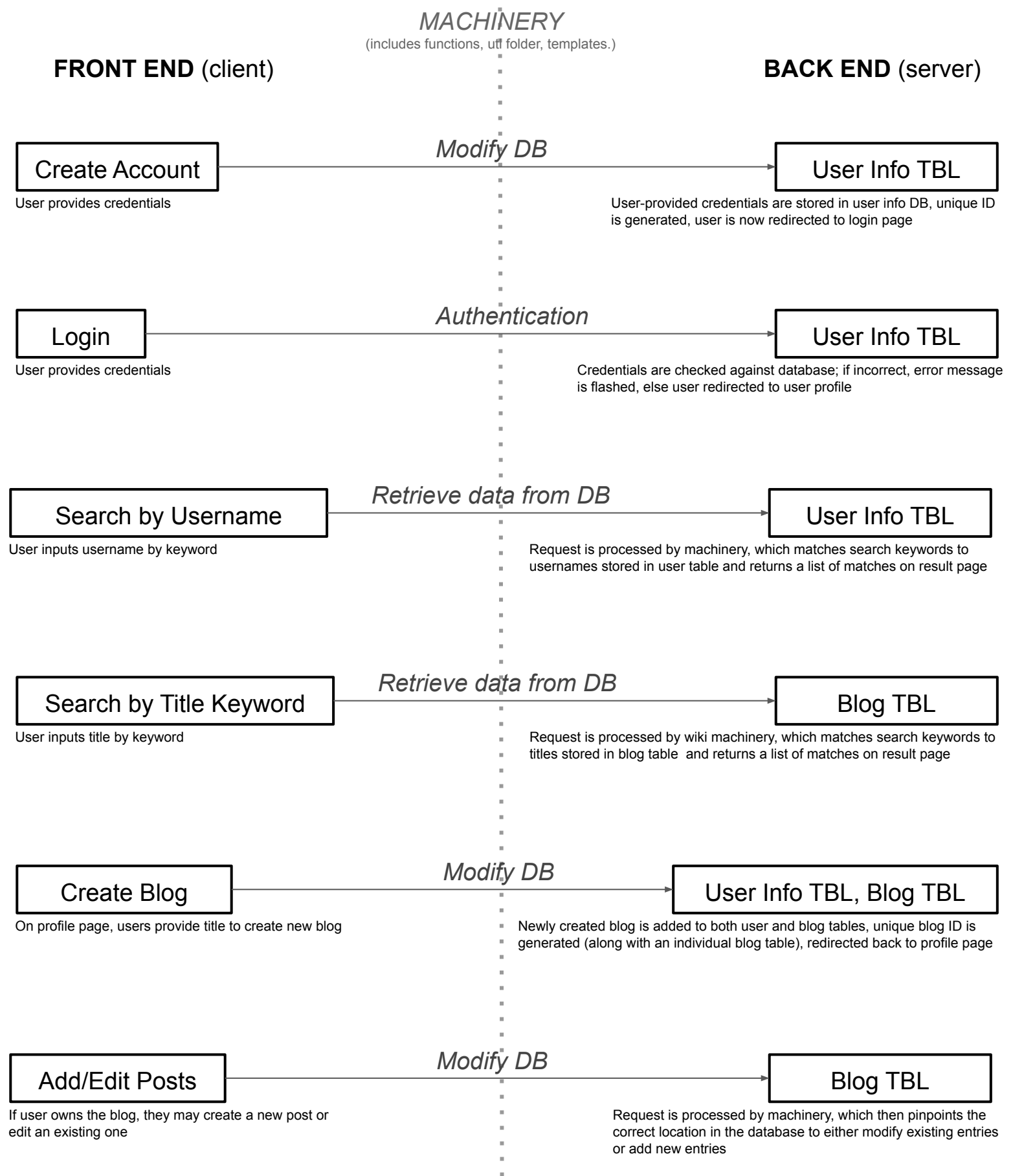
- Commenting and voting feature on blog posts
  - Users can also be reported for inappropriate content by other users
  - Admin accounts will manage reported users/content
- Hashtag feature for blogs to make searching for them easier
  - Displaying most used/suggested hashtags
- Autocomplete search entries based on previous searches
- Allow users to view the edit history of their blog
- Allow users to add images to posts
- Allow users to delete their posts or blog
- Add more features to user profiles
  - Edit username and password
  - Edit biography
  - Upload profile picture
- Adding more options to search menu
  - Allowing users to sort results alphabetically or by time

## Breakdown of Tasks

### TASKS

- A. Project Manager (Emily)
  - Oversees project development
  - Help with frontend/backend development
  - Updates devlog and design doc
- B. Frontend (Yaru)
  - Creates HTML templates and pages according to sitemap
- C. Backend (Jackie)
  - Write Python scripts to handle requests to modify or retrieve data from databases
    - Create Flask framework
- D. Database(Elizabeth)
  - Write Python scripts to create databases and tables and add entries
  - Maintain databases using SQLite

Component Map



NAVIGATION BAR

Welcome **username!**

My Profile

Search

About

Sign Out

Login Page

Sign Up

Username

Password

Sign In

Search Page

NAVIGATION BAR

SEARCH | MENU

Recent Posts

[Blog Title](#)

[Blog Title](#)

[Blog Title](#)

[Blog Title](#)

[Blog Title](#)

New Blog Page

NAVIGATION BAR

Blog Title

Create

Signup Page

Sign In

Username

Password

Sign Up

Results Page

NAVIGATION BAR

SEARCH | MENU

Results

[Blog Title](#)

[Blog Title](#)

[Blog Title](#)

[Blog Title](#)

[Blog Title](#)

New Blog Entry Page

NAVIGATION BAR

Blog Post Title

Blog Post Content...

Create

User Profile Page

NAVIGATION BAR

Username

[Blog Title](#)

[Blog Title](#)

[Blog Title](#)

Create new blog...

Blog Page

NAVIGATION BAR

Blog Post Content

Edit

Blog Post Content

Edit

Create new post...

Edit Blog Entry Page

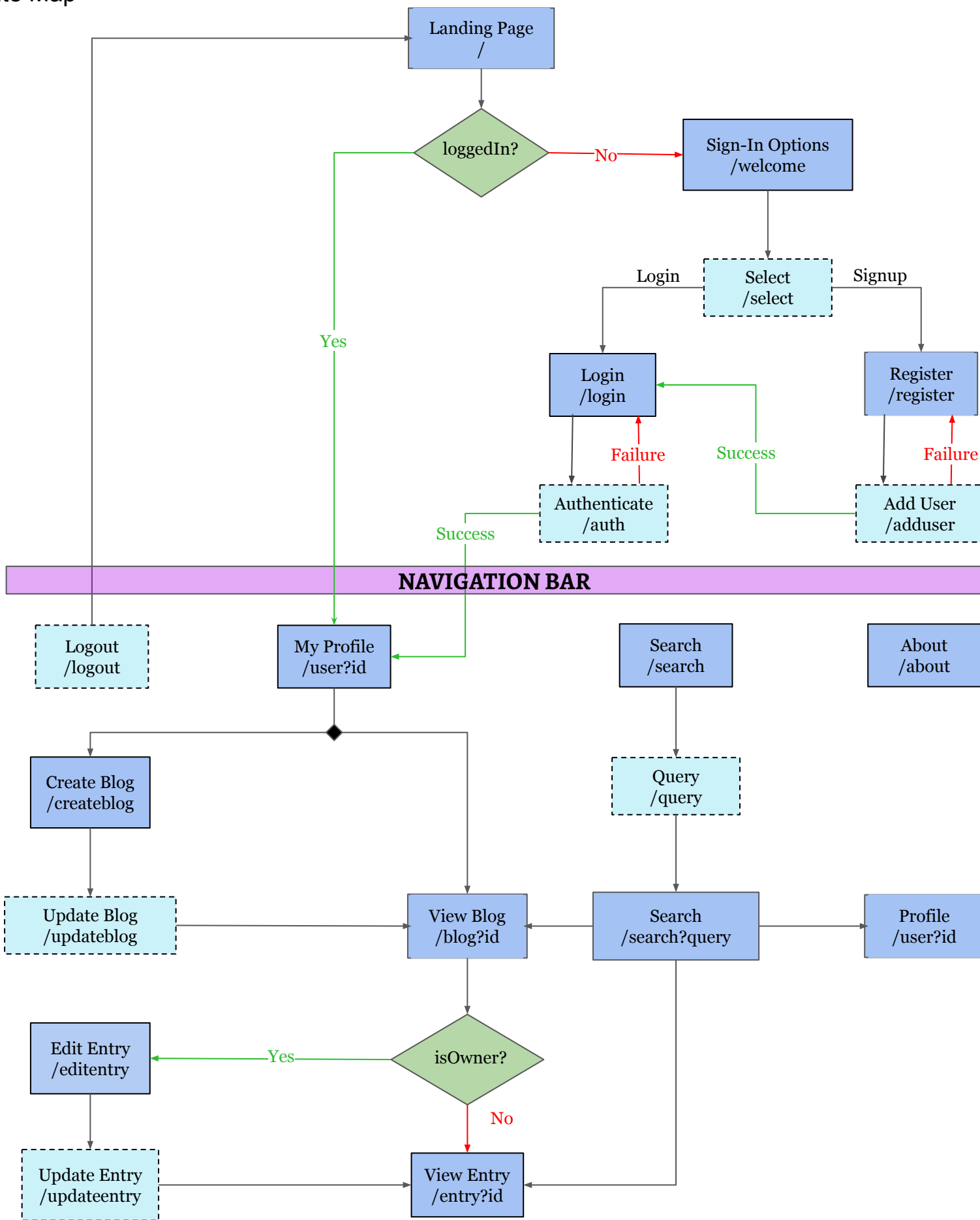
NAVIGATION BAR

Blog Post Title

Blog Post Content...

Save

Site Map



# Database Layout

## user\_tbl

Contains a list of all registered users, each with a unique user ID

user_id	username	password
INT*	TEXT	TEXT

## blog\_tbl

Contains a list of all blogs, each with a unique blogID

blog_id	user_id	title	time_created	time_updated
INT*	INT*	TEXT	TEXT (ISO8601)	TEXT (ISO8601)

## entry\_tbl

Contains a list of blog entries across all blogs, each with a unique entryID

entry_id	blog_id	title	content	time_created	time_updated
INT*	INT*	TEXT	TEXT	TEXT (ISO8601)	TEXT (ISO8601)

\*Indicates PRIMARY KEY\*\*