TEAM: Bits Please
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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
          - Registered users can add blog posts or edit existing ones
  C. Search Bar
      - Users can view other users' blogs or blog posts 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 title keywords)
  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

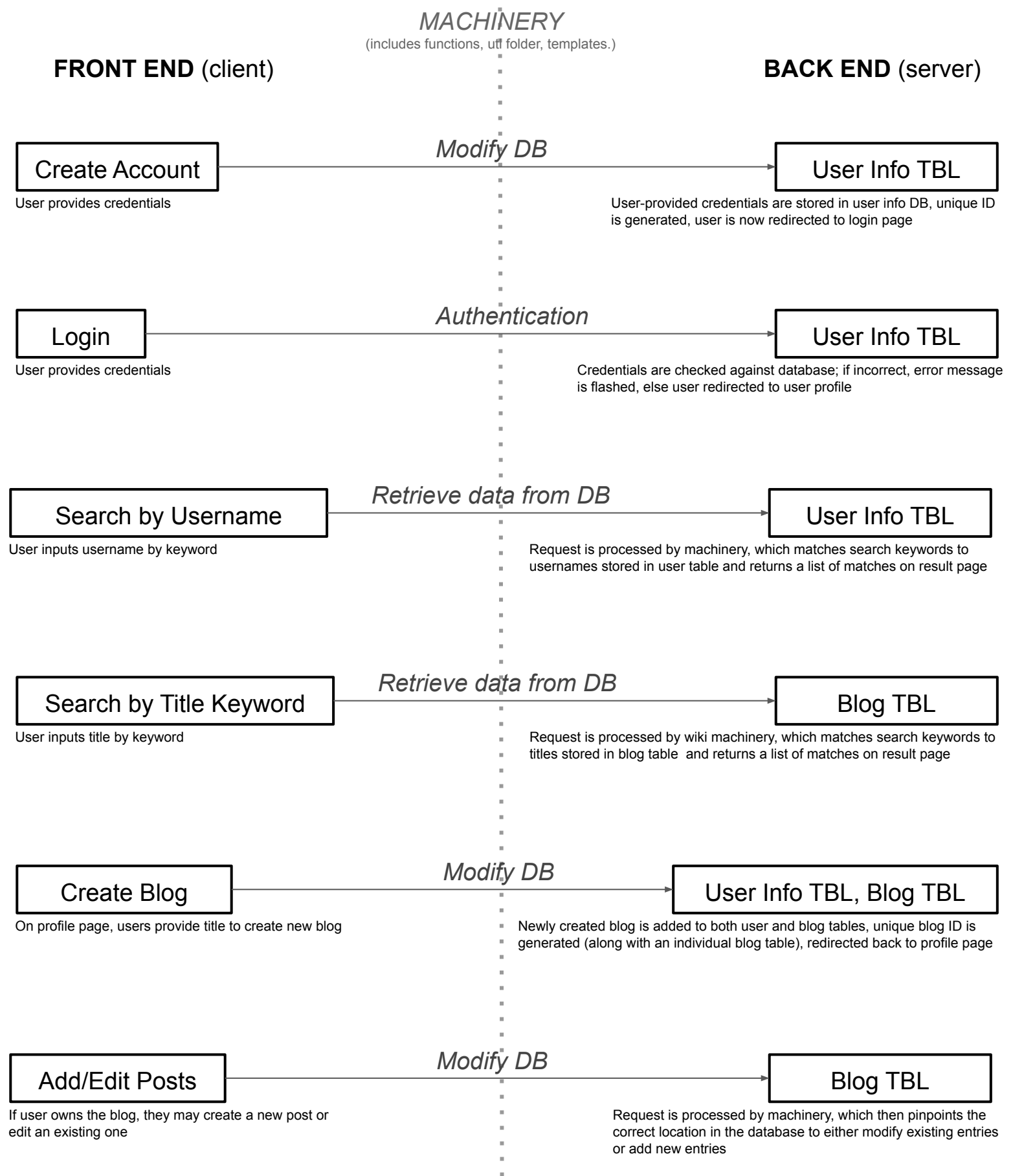Optional Components **(if we have time!)**
  - Commenting and voting feature on blog posts
      - Users can also be reported for inappropriate content by other users
      - Admin accounts will manage reported users/content
  - Hashtag feature for blogs to make searching for them easier
      - Displaying 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

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

Component Map

FRONT END (client)   **BACK END** (server)

| Create Account |
Modify DB
| User Info TBL |

User provides credentials

User-provided credentials are stored in user info DB, unique ID is generated, user is now redirected to login page

| Login |
Authentication
| User Info TBL |

User provides credentials

Credentials are checked against database; if incorrect, error message is flashed, else user redirected to user profile

| Search by Username |
Retrieve data from DB
| User Info TBL |

User inputs username by keyword

Request is processed by machinery, which matches search keywords to usernames stored in user table and returns a list of matches on result page

| Search by Title Keyword |
Retrieve data from DB
| Blog TBL |

User inputs title by keyword

Request is processed by wiki machinery, which matches search keywords to titles stored in blog table and returns a list of matches on result page

| Create Blog |
Modify DB
| User Info TBL, Blog TBL |

On profile page, users provide title to create new blog

Newly created blog is added to both user and blog tables, unique blog ID is generated (along with an individual blog table), redirected back to profile page

| Add/Edit Posts |
Modify DB
| Blog TBL |

If user owns the blog, they may create a new post or edit an existing one

Request is processed by machinery, which then pinpoints the correct location in the database to either modify existing entries or add new entries

Site Components

NAVIGATION BAR
Welcome **username!**

| My Profile | | Search | | About | | Sign Out |

Login Page

Sign Up

Username

Password

Sign In

Signup Page

Sign In

Username

Password

Sign Up

User Profile Page

NAVIGATION BAR

Username
Blog Title
Blog Title
Blog Title

Create new blog...

Search Page

NAVIGATION BAR

SEARCH | MENU

Recent Posts
Blog Title
Blog Title
Blog Title
Blog Title
Blog Title

Results Page

NAVIGATION BAR

SEARCH | MENU

Results
Blog Title
Blog Title
Blog Title
Blog Title
Blog Title

Blog Page

NAVIGATION BAR

Blog Post
Content

Edit

Blog Post
Content

Edit

Create new post...

New Blog Page

NAVIGATION BAR

Blog Title

Create

New Blog Post Page

NAVIGATION BAR

Blog Post Title

Blog Post Content...
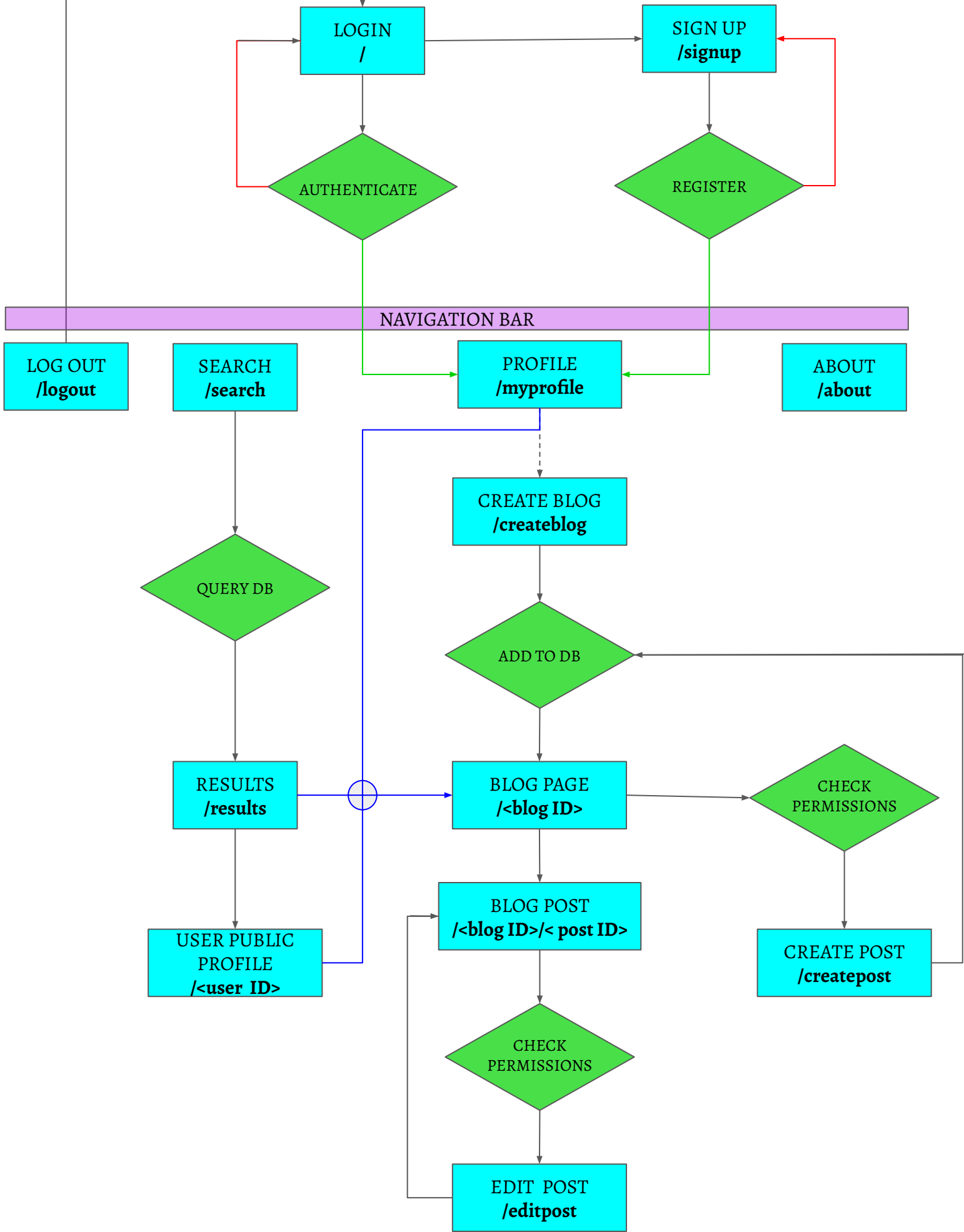
Create

Edit Blog Post Page

NAVIGATION BAR

Blog Post Title

Blog Post Content...

Save

Site Map

Database Layout

Table of All Users
Contains a list of all registered users, each with a unique ID

User ID	Username	Password
INTEGER	TEXT	TEXT

Individual User Tables
Each user will have their own table, named after their unique User ID, containing the IDs of all the blogs they own

Blog IDs
INTEGER

Table of All Blogs
Contains a list of all blogs, each with a unique ID

Blog ID	Title	User ID
INTEGER	TEXT	INTEGER

Individual Blog Tables
Each blog will have its own table, named after its unique Blog ID, containing all the posts in that blog

Post Number	Title	Content	Timestamp
INTEGER	TEXT	TEXT	TEXT (ISO8601)