Web Blog Design Document

Project Name: Boaa Blog

TNPG: Boolean Boas
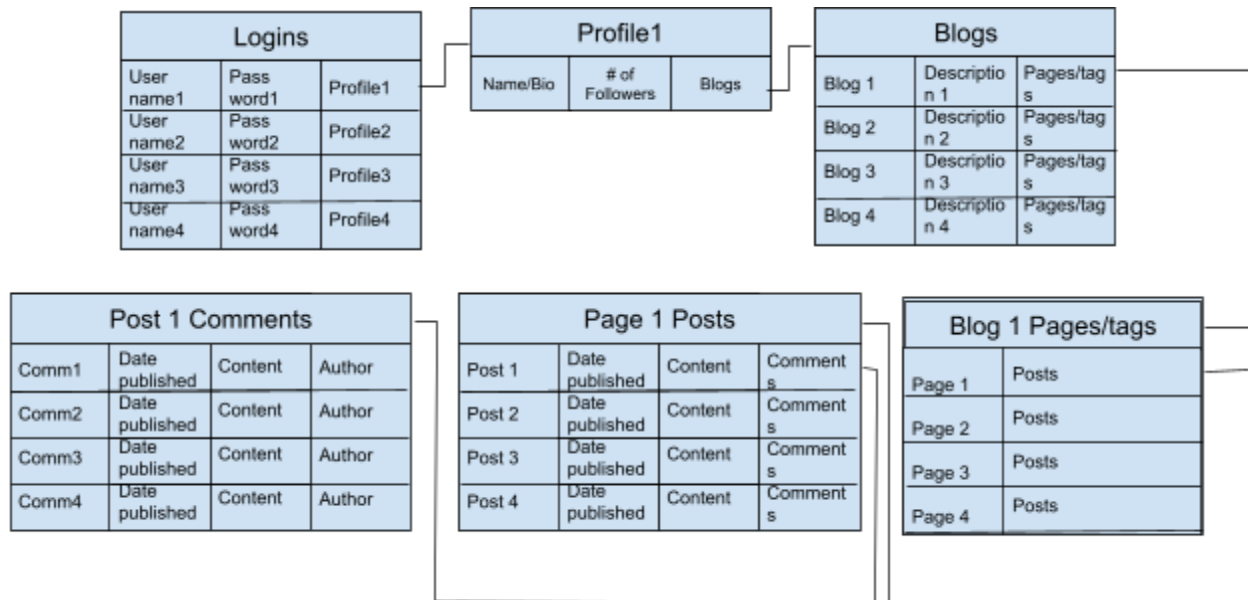
Roster: Linda Zheng, Ankita Saha, Dua Baig, Mark Ma

TARGET SHIP DATE: 11-05-24
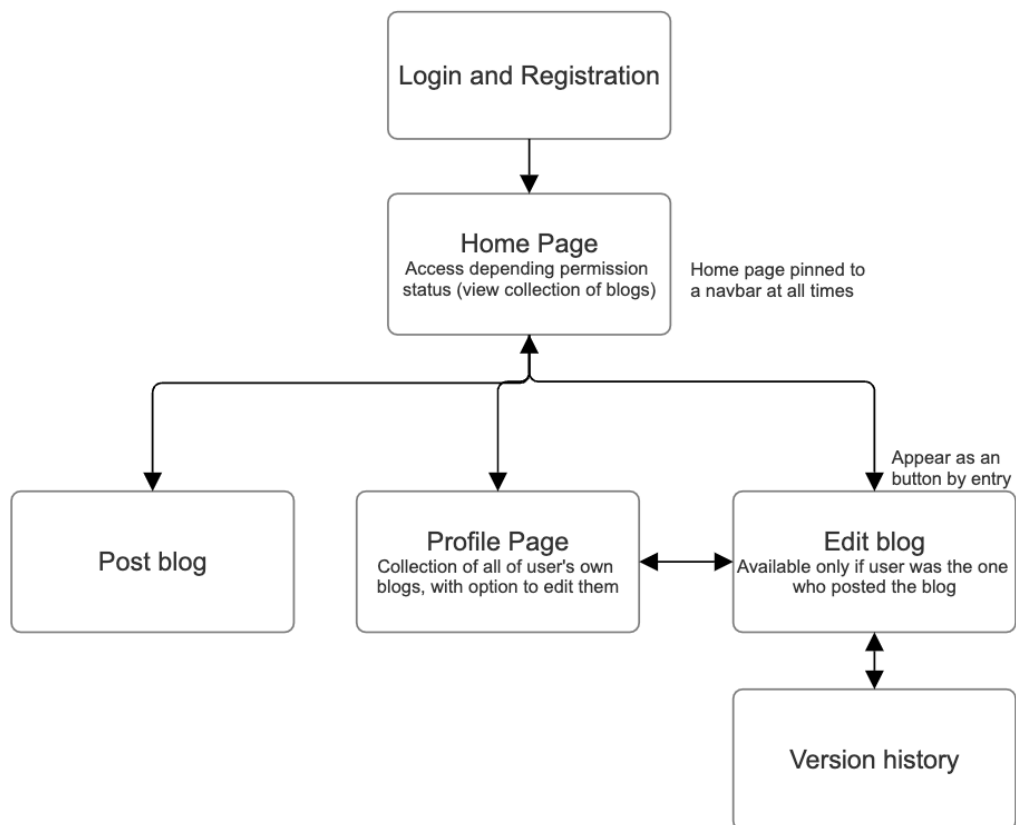
Program Components:

- *Login & Database*
    - Needed for user to login so they can access their blogs
    - Takes in username and password (sessions)
        - Hash password to database (sqlite)
        - Requires certain parameters to create password (length, characters, etc.)
        - If user is not logged in, they should not be able to make a blog/like other blogs/comment/etc (only view)
    - Usernames have to be unique
- *Homepage*
    - Display recent edited or created blogs on home page
    - Display blogs with the highest upvotes/updates from user's followed blogs
    - Title / Tags search feature
- *Profile Page*
    - Displays user information (bio: name, # of blogs, etc.)
    - Shows a list of blogs (so user can easily access blogs and others can see what other blogs they run)
- *Blog Creator*
    - Enter title, description, body, and tags of the blog post
    - After editing, user can either save what they are writing as a draft or post the blog
- *Blog Editor*
    - If text is already written in a textbox, giving user the opportunity to alter it
        - Let users change text and formatting of text (bolding-#, italics, etc)
    - Version control (edit history, rollback functionality) (extra)
- *Display Blogs*
    - Upvotes/Likes/Dislikes
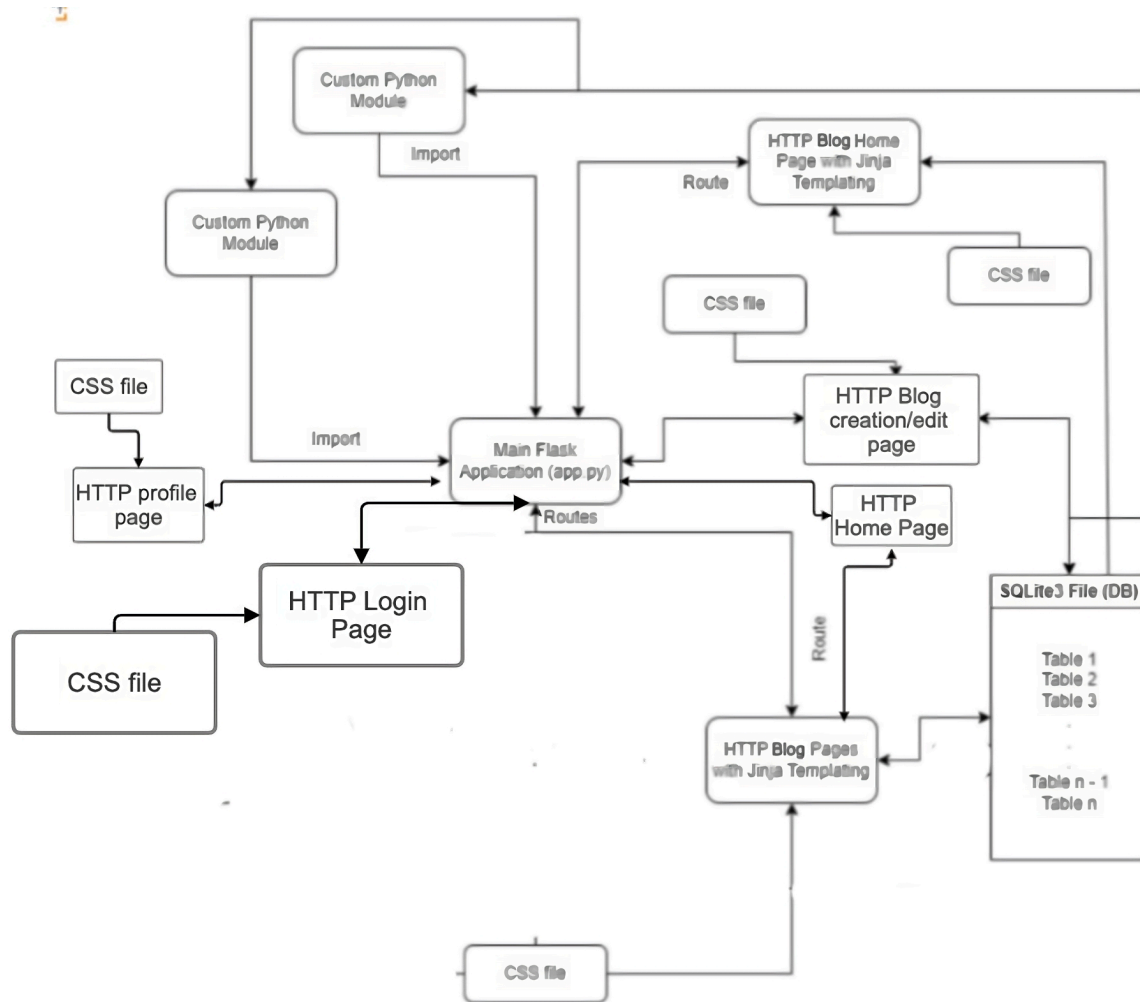   - Comments
    - Follow creator

Database Organization (Broad Overview)

Logins

User name1	Pass word1	Profile1
User name2	Pass word2	Profile2
User name3	Pass word3	Profile3
User name4	Pass word4	Profile4

Profile1

| Name/Bio | # of Followers | Blogs |

Blogs

Blog 1	Description 1	Pages/tags
Blog 2	Description 2	Pages/tags
Blog 3	Description 3	Pages/tags
Blog 4	Description 4	Pages/tags

Post 1 Comments

Comm1	Date published	Content	Author
Comm2	Date published	Content	Author
Comm3	Date published	Content	Author
Comm4	Date published	Content	Author

Page 1 Posts

Post 1	Date published	Content	Comments
Post 2	Date published	Content	Comments
Post 3	Date published	Content	Comments
Post 4	Date published	Content	Comments

Blog 1 Pages/tags

Page 1	Posts
Page 2	Posts
Page 3	Posts
Page 4	Posts

Site Map

Login and Registration

↓

Home Page
Access depending permission status (view collection of blogs)

Home page pinned to a navbar at all times

Post blog

Profile Page
Collection of all of user's own blogs, with option to edit them

Edit blog
Available only if user was the one who posted the blog

Appear as an button by entry

Version history

Component Map:

Task Breakdown:

- Linda Zheng - Project Manager & Database Management
    - Oversee progress on each component and sets the pace for each component.
    - Provides any additional help to any component that requires it.
    - Work on login interface (including password hashing, storing in database) and database management (make sure the databases have proper info in them, etc)
    - Work on CSS for finished component
- Mark Ma
    - Work on home page and profile page
    - Integrate database with logins to access profiles.
    - Implement followers and reputation feature
    - Implement search feature

- Integrate database with posted blogs to display on home page and user profile (eg. most upvoted blogs, recent blogs from your friends, recently edited blogs)
- Formatting home and profile page.

- ● Dua Baig
  - Implement feature for editing/creating Blog posts (edit text, tags, heading)
  - Implement useful editor features (bold, italicized text, underlined, modify text size) and have a user-friendly interface
  - Retrieve text from database, and update the database.
  - Add version control (i.e store text from previous versions, and allow a user to rollback changes)
  - Implement draft feature, where a user can save a draft and work on it later or post it. The next time the user loads the editor for the blog, the draft (or most recent posted version) should already be there.
  - If time permits, extra features such as change background color or work on CSS for display blog page.

- ● Ankita Saha
  - ○ Implement components for "Display Blog"
    - ■ Allow users to comment/upvote/like (if logged in)
      - ● Allow users to edit their comments (similar to edit blog post)
    - ■ Display those numbers from the database on blog posts
  - ○ Work on default CSS for display blog page
  - ○ Organize/keep track of blog database (w/ info of upvotes, likes, tags, etc.)
    - ■ Update each time a new comment/like is added
    - ■ Delete from site & database if like removed/comment deleted

- ● We will merge the separate components together once each component is done, or when some components are done early. Since we are reading and writing to the same database structure, this shouldn't be an issue. We just have to make sure the links work.