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SoftDev
P00 -- Design Doc For Blog Hosting Website
2021-10-28

Program components:
- ❖ A database with two tables;
  - ➢ one with user info to store the username, password, display name
  - ➢ one with blog posts with title, content, user who created it
- ❖ Backend with authentication and authorization functionality and loading user posts with title and description.
  - ➢ verifies if user is author before being granted access to edit and make blog posts.
  - ➢ process blog post edits and appends, and process search queries
- ❖ Frontend to render out blog post page and editor and search page

Diagram:
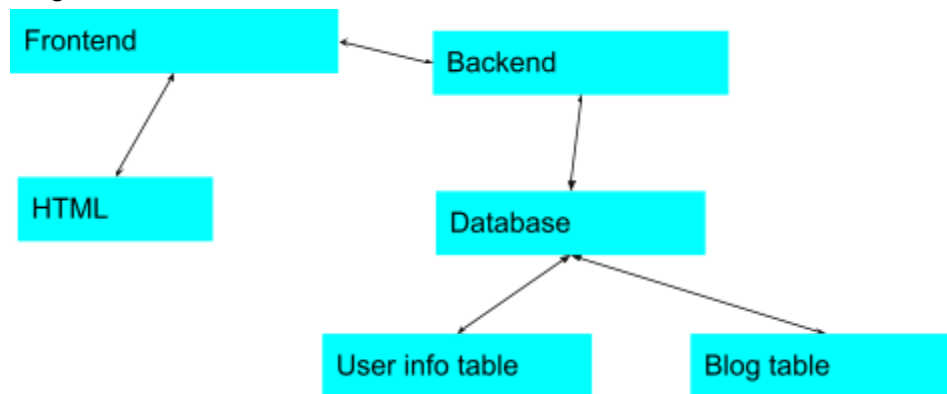
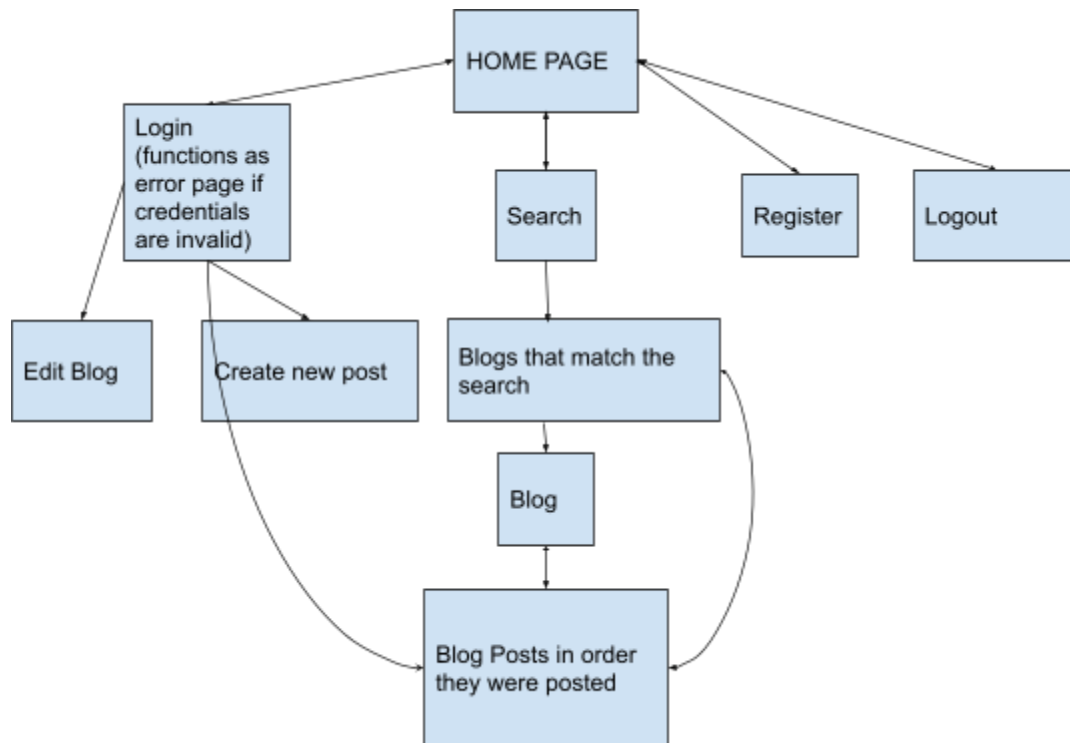User

username (primary key)	password	displayName
String	String	String

Post

Id (primary key)	author (foreign key)	title	content
Number	String	String	String

Routes

path	request method	params	description
/	GET		

/login	GET		
	POST	username password	Logs user in. Uses sessions. Redirects to the index ("/") page.
/signup	GET		Renders signup form
	POST	username password displayName	Creates account by adding information to user table and logs user in. Redirects to the index ("/") page.
/search	GET	query	Renders results
/post	GET	id	Renders blog post
/blog	GET	author	Renders the specified authors blogs
/create	GET		Renders the blog post upload form
	POST	title content username (session)	Adds post to post table. Renders a confirmation page.
/edit	GET	id	Renders the blog post edit form and set initial values
	POST	id title content username (session)	Edits post in post table. Renders a confirmation page.

Site Map:

Breakdown of Tasks:

- Authentication and authorization & database - Shadman
  - Create database, as well as handling appending data to database as well as securing user information
  - Will assist Andy in handling sending queries and handling more advanced SQL tasks if needed
- Frontend - Raymond
  - Develop template html as well as code to send user inputs to the backend
- Backend - Andy
  - Receives data from the frontend and sends queries to the database as needed, which will then send data to the backend and to the frontend to be shown.