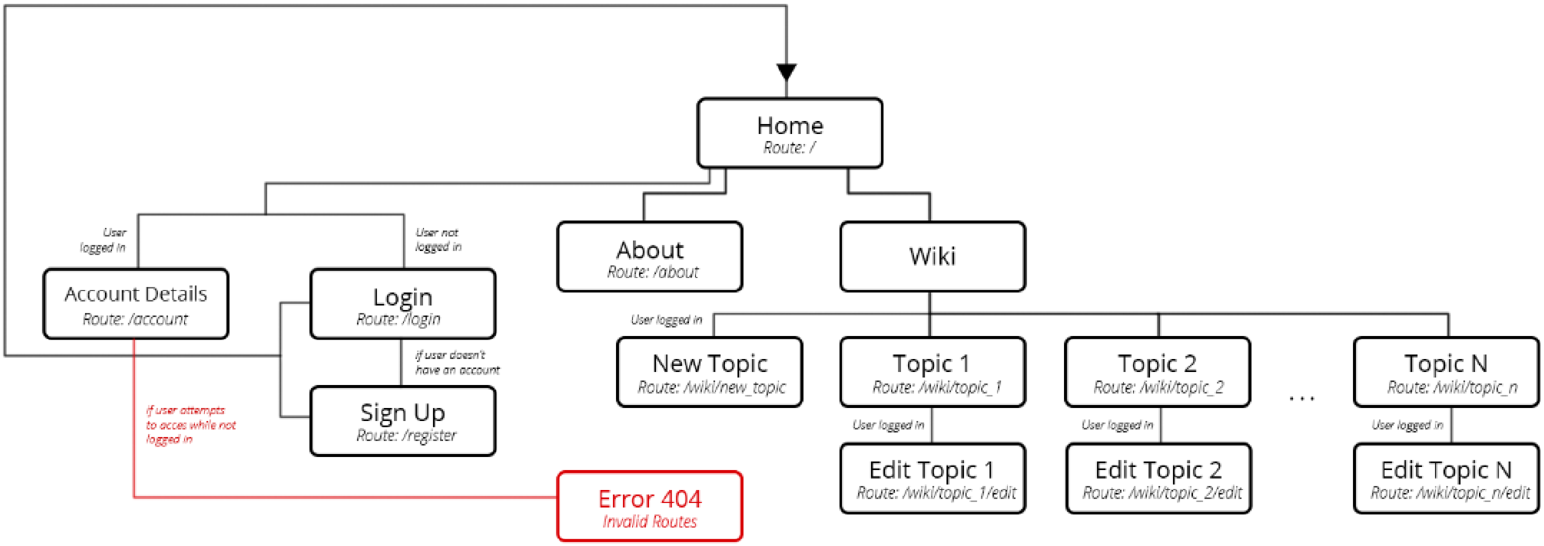
Wiki Project Design Document

File Tree:

```
flask_app
├── app.py
├── wiki.db
├── templates/
│   ├── home.html
│   ├── login.html
│   ├── topic.html
├── static/
│   ├── css/
│   │   ├── style.css
│   ├── javascript/
│   │   ├── script.js
├── page_info/
│   ├── topic_1.txt
│   ├── topic_2.txt
│   ├── topic_n.txt
```

Front-End Sitemap



Program Component List:

- Python
  - The python app would be used for the creation of the database itself and for inserting data / pulling data from it.
- SQLite
  - We use SQlite to interact with our database. The commands used in the python app would come from this component.
- Jinja
  - Jinja takes the data from the backend for the wiki contents, page title, and other bits and puts them where we want in our webpage.
- Flask
  - Flask serves the actual web pages jinja will be rendering (does network stuff).
  - Session allows for the site to allow a logged in user to edit existing pages and add new ones. If someone attempts to edit/add a page without being logged in, nothing happens.
- CSS
  - CSS makes our site look pretty to the user on the frontend.

Database Organization

- Tables:
  1. **PAGES**
     a. Stores the url by which the page can be accessed and the number pointing to where the contents of the page can be retrieved.
     b. Three columns, ROWID, NAME, and AUTHOR.
  2. **USERS**
     a. Stores user data
     b. Holds username, hashed password, special permissions (mod/admin) + ROWID

Member Assignments

Daniel: Frontend Design - HTML templates + CSS & Javascript (for styling)
Cameron: database design, python backend
Sophie: Backend design