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SoftDev
Project 00 -- Move Slowly and Fix Things
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Program Components:

- HTML
    - Templates for Login Page, Create Account Page, Home Page, Choose Story to Add, Add to Story Page, Create New Story, View Stories Page
        - Buttons/links to move from page to page
- Flask
    - Takes user inputs from the templates and interacts with the database
        - Gets username and password and verifies it against the database
    - Stores session so that the user can stay logged in
    - Renders HTML templates and fills them in using data from the SQL database
- SQL
    - Creates a db file that stores data from the website
    - Has datatables for usernames, passwords, and the stories the user has contributed to
    - Stores story title, story content, and users contributed to the story in large strings separated by special characters (\n). First user could be the creator of the story **
    - Accesses the database and interacts with Flask

Database Organization:

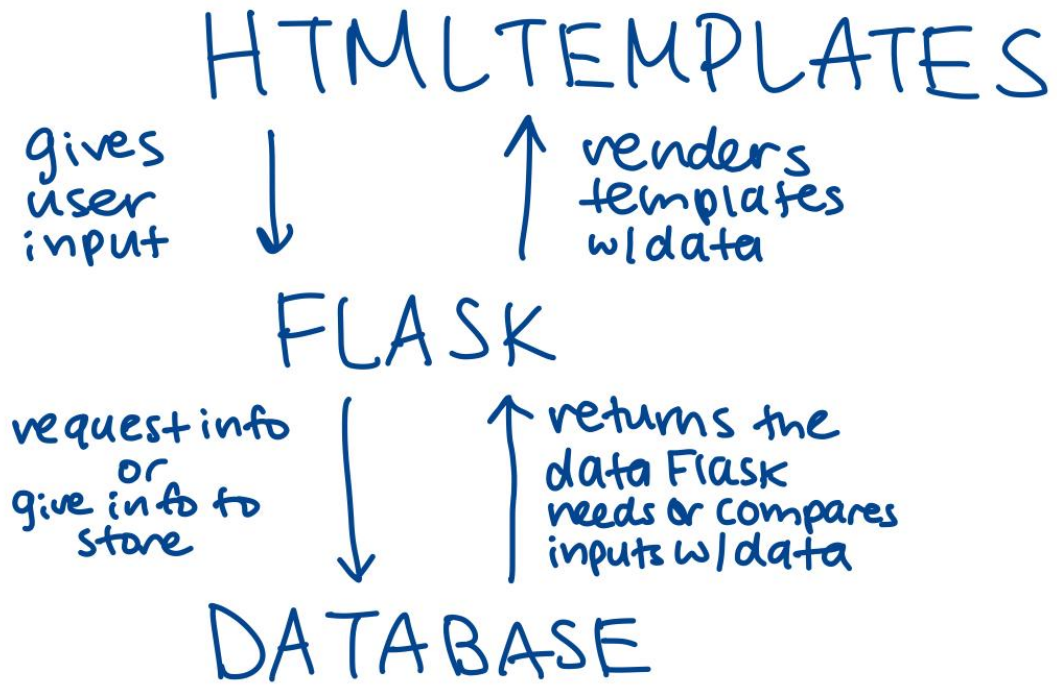
user_info:

username (TEXT) - UNIQUE	password (TEXT)	stories_contributed (TEXT)

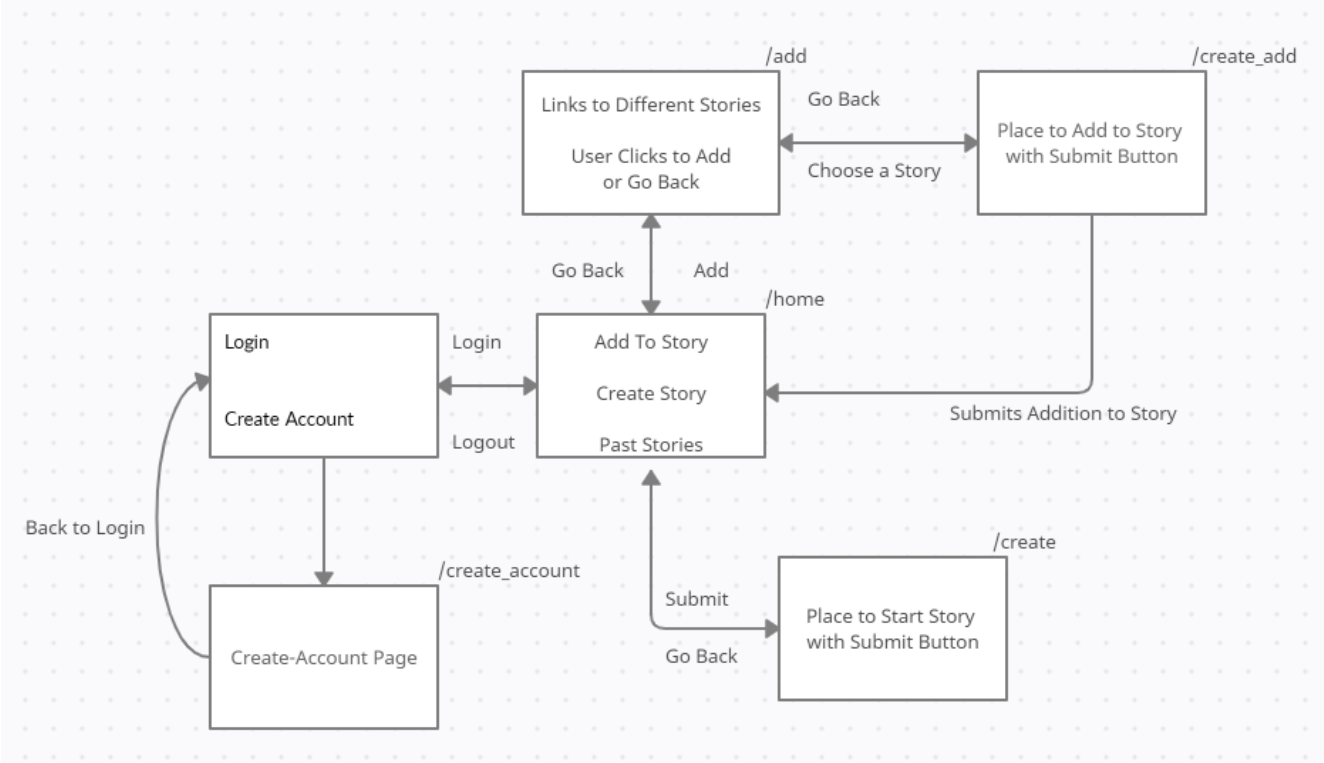
story:

title (TEXT) - UNIQUE	contributor (TEXT)	entry (TEXT)

Component Map:



Site map:



Breakdown of each page:

- Login Page @app.route("/")
    - Template for Login Page
    - Database to store user information and compare with login inputs
    - Render template with Flask and store cookies
    - Redirect to ("/create_account") if user clicks the create account button
    - Redirect to ("/home") when the user successfully logs in
- Create an account ("/create_account")
    - Template form asks for username, password, and confirm password
        - If both password entries are the same, then store the password in the database using Flask and SQL
        - If the username is unique, then store it in the database
            - Error messages if username already exists or if the passwords don't match
        - After creating an account, the user is redirected to the "/login" page
- Home Page ("/home") → landing page after login
    - Contains links to add to or create a story
    - Redirect to:
        - Create Story Page ("/create")
            - Uses an HTML template to take inputs for the "title" and "content"
                - Check if "title" is unique"
                - Check if "title" or "content" is empty
        - Add to Story Page ("/add")
            - When user clicks on certain stories would redirect to "/add/<story>"
                - Display the latest entry in the database
            - Form to input a limited amount of text in the story
            - Store the story title into the datatable for stories the user has contributed to
    - View full stories that the user has contributed to
    - Preview Featured Story (advanced feature) **

Tasks:

- HTML: Create simple and elegant templates for each page. Allows templates to display data with Flask. Login page, home page, create page, add page, and create account page → David
- Flask: Bring information from the database to HTML and vice versa. Maintain session login and redirect users accordingly → Rachel
- SQL: Store login information when creating a new account. Store stories information and create functions to access the correct information from database (like most recent addition to a story) → Michael and Yuqing