Team O Tree: Reng Zheng, Ivan Lam, Julia Nelson, Michelle Lo...
SoftDev
P00 -- Move Slowly and Fix Things/Design Document
2021-10-27
Time spent: 3.5 hours
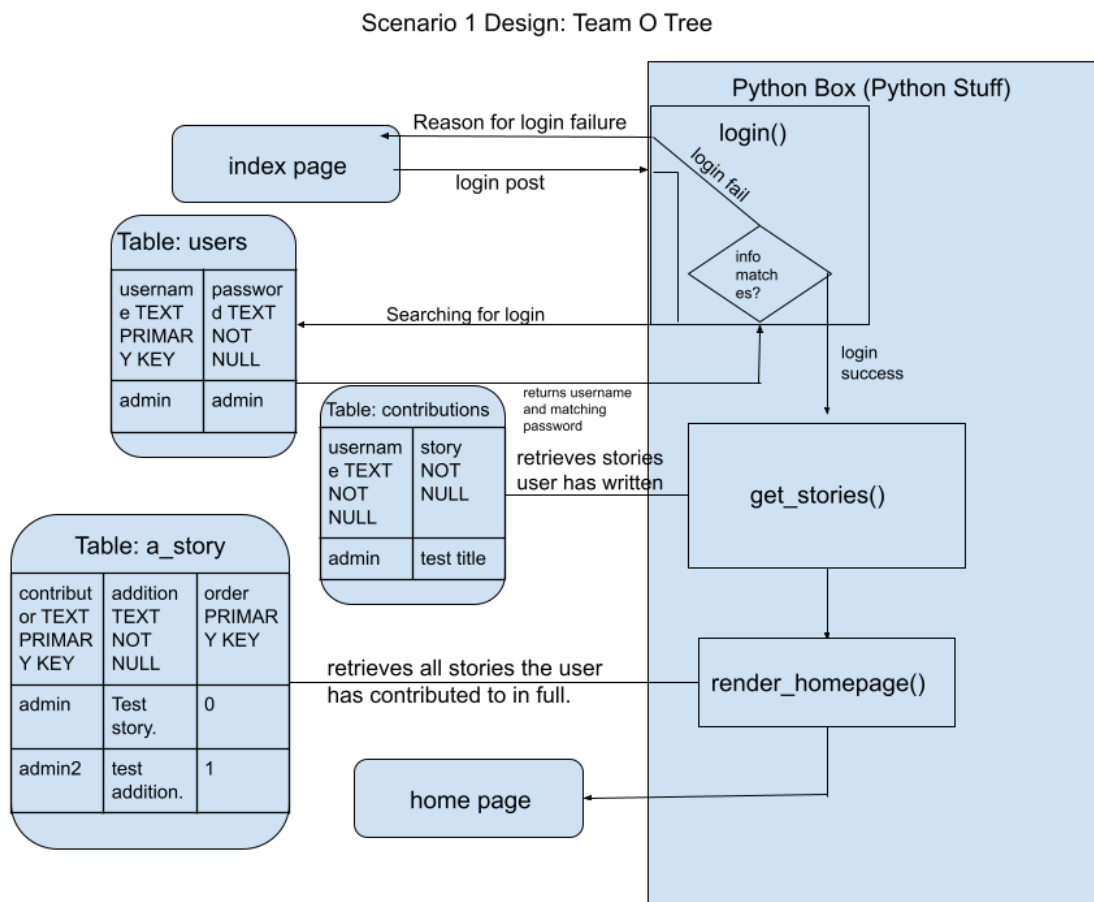

Program Components and Role:
SQL Database -- Store user information + stories
Homepage -- login/register capability + display stories users have contributed to + button (leads to search page for existing stories) + button (creates new story)
Flask application -- host web server

Component Map

Scenario 1 Design: Team O Tree

SQL Database Organization:
- Login Table
    -

username TEXT PRIMARY KEY	password TEXT NOT NULL
admin	admin

- Table for each story, name being story name
    -

contributor TEXT PRIMARY KEY	addition TEXT NOT NULL	order PRIMARY KEY
admin	Test story.	0
admin2	test addition.	1

- Table for stories
    -

stories TEXT Primary Key

- Table for contributions
    -

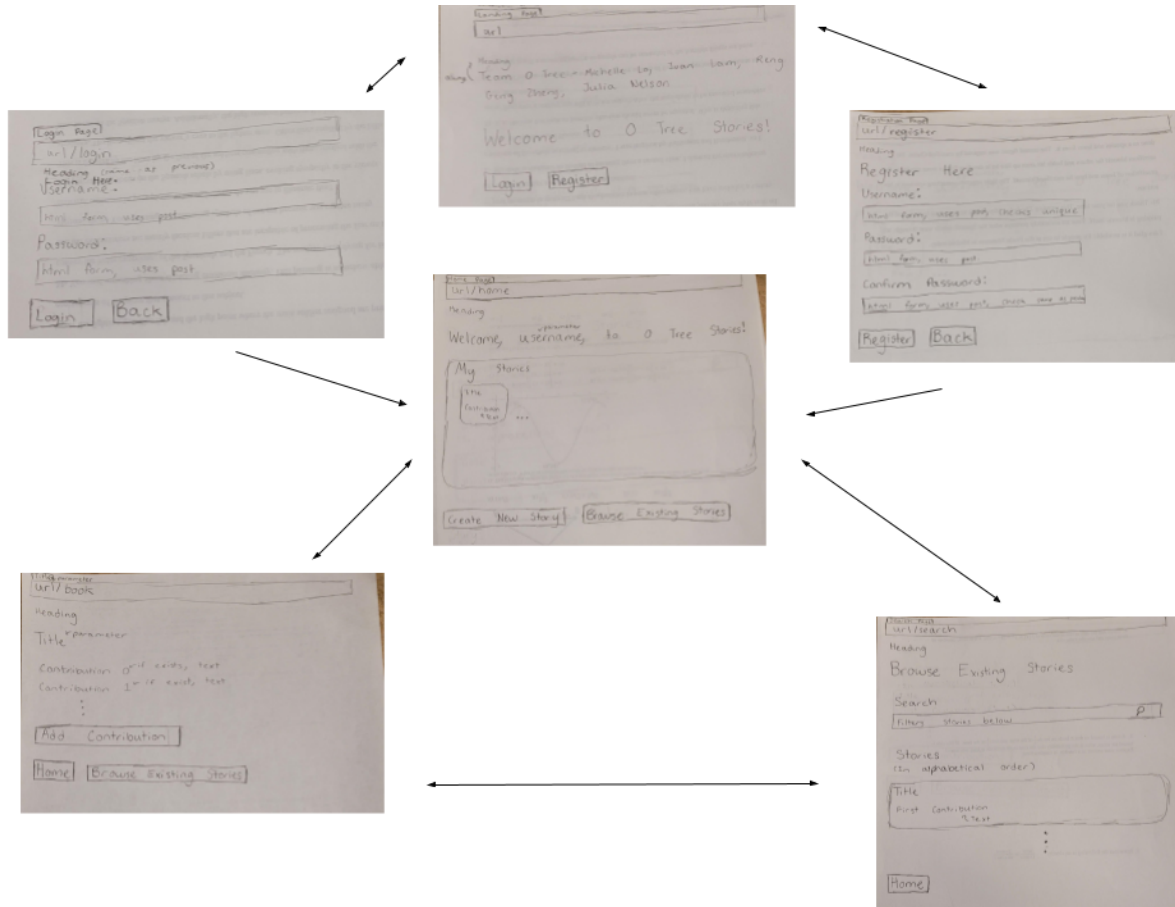| username TEXT NOT NULL	story NOT NULL
admin	test title

Homepage Specifics:
- Login button -- brings to to the login page
    - invokes login function
- Register button -- brings you to the registration page
    - invokes registration function
- Stories display on homepage
    - invokes story display function

Flask application Specifics:
- login()
    - handles the login functionality, checks the database and password hash
- register()
    - handles the registration, makes sure they are not trying to do an SQL injection.
- get_stories()
    - gets the stories of a user.

Site Map

Tasks and Assignments:

1. Users functions -- Michelle
   a. Create a table with usernames and passwords.
   b. Login function: Users will stay logged in until they choose to log out.
   c. Logout function: Users can log out and end their sessions.
   d. Register account function: Users can create accounts and add to the database.
2. Creating Pages -- Ivan
   a. Create a homepage.
      i. Displays stories edited on the homepage.
      ii. Login and Logout buttons.
      iii. Register button.
   b. Search stories page.
3. Story Management -- Reng

     a. Creates a table with username and the titles of the stories that they have created/contributed.

     b. Creates a table for each story created with user contributor, additions, and order of additions based on when it was added.

     c. Creates a table containing the list of stories.

4. Hosting -- Julia

     a. Making sure everything works.

     b. Managing subcomponent interconnections.

     c. Filling in gaps if needed.