nTeam O Tree: Reng Zheng, Ivan Lam, Julia Nelson, Michelle Lo

SoftDev

P00 -- Move Slowly and Fix Things/Design Document

2021-10-27

Time spent: 4 hours

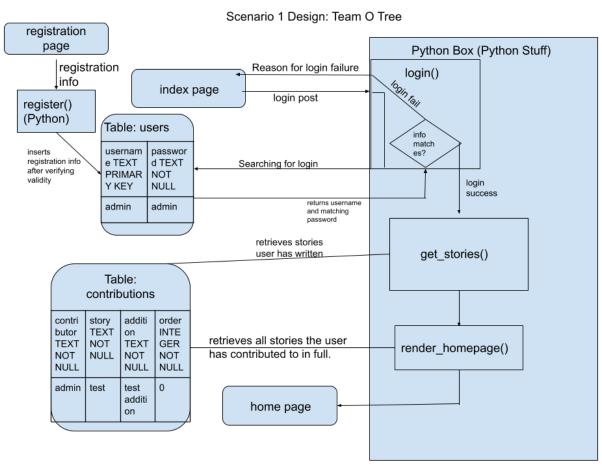
Program Components and Role:

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



SQL Database Organization:

Login Table

_

| username TEXT PRIMARY KEY | password TEXT NOT NULL |
|---------------------------|------------------------|
| admin | admin |

- Table for all contributions to all stories, in the order they appear in in the story.
 - This ensures there is no need for dynamic tables of stories, which are unsafe as table names can't be parameterized
 - Also keeps contributor info all together

| contributor TEXT NOT NULL | story TEXT NOT NULL | addition TEXT NOT NULL | order INTEGER NOT NULL |
|---------------------------------|------------------------|---------------------------|---------------------------|
| admin | test | test addition | 0 |

- Table for stories
 - Keeps track of all stories

stories TEXT Primary Key

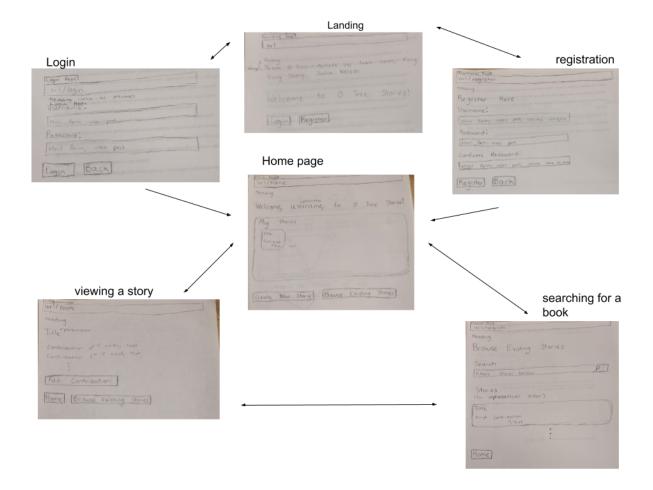
Homepage Specifics:

- 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
 - Shows a section with a list of stories they can contribute to and then a section of stories they have contributed to.

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.
- get latest contribution(story)
 - gets the latest contribution of a given story

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.
- d. Connect story management to pages
 - i. Will display last entry with stories contributed to on home page
 - ii. Will display first entry with stories on search page