Ivan Yeung Daniel Yentin (Team Success)

Soft Dev

Storytelling game/website

2022-10-31

Target ship date: November 14, 2022 (2022-11-14)

1. Program Components

- **a.** Flask
    - i. /templates
        1. login.html
            - a. This page contains a form for logging into your account
            - b. link to register.html
        2. register.html
            - a. This page contains a form for registering a new account
            - b. link to login.html
        3. home.html
            - a. This is the landing page that users go to after successfully logging in.
            - b. There will be buttons for creating, adding, and viewing stories
            - c. There will be dropdown menus for the add and view function that will allow users to choose which story they want to add to/view.
        4. create.html
            - a. This page will have 2 forms. One form will be used to give the new story a title and the other form will be where the user can write the content of the story.
        5. add.html
            - a. This page will 1 have a form where the user can enter their addition to the story. On this page, users will also be able to see the last contribution(only the last contribution and no other part of the story) to the story along with the title of the story at the top.
        6. view.html
            - a. When the user chooses a story they want to view, they will be directed to a page with the title of the story, the author(creator), and the content of the story(latest version)
    - ii. /static

        1. login.css
        2. register.css
        3. home.css
        4. create.css
        5. add.css
        6. view.css

    iii. app.py - the python file containing all the python to flask and SQLite3 interactions
        1. @app.route("/"):
            a. redirect to /login
        2. @app.route("/login"):
            a. login form: username & password
                i. check for existence of username and validity of password
        3. @app.route("/register/auth"):
            a. renders register.html
        4. @app.route("/register/auth"):
            a. register form: username & password
                i. check for availability of username
                ii. if account is successfully created, information is stored in database
        5. @app.route("/home"): then displays buttons to start a new story or add to an existing story
            a. type=login: check username for existence / password correctness
            b. type=register: check for username availability
            c. New Story: form and button
                i. Title (checks that title has not been taken)
            d. Add to Story: selection box (displays editable stories)
            e. View Story: buttons of all stories that user has contributed to including stories that they have created
        6. @app.route("/logout"): clears the cookie(session) and redirects users to the login page.
        7. @app.route("/create"): renders a page with two empty text boxes where the user can add a title and write their story and upload it to the database
        8. @app.route("/publish"): Checks the title of the story that the user inputted in the create page. If the story name has not been taken, it inputs the title and body form into the database.

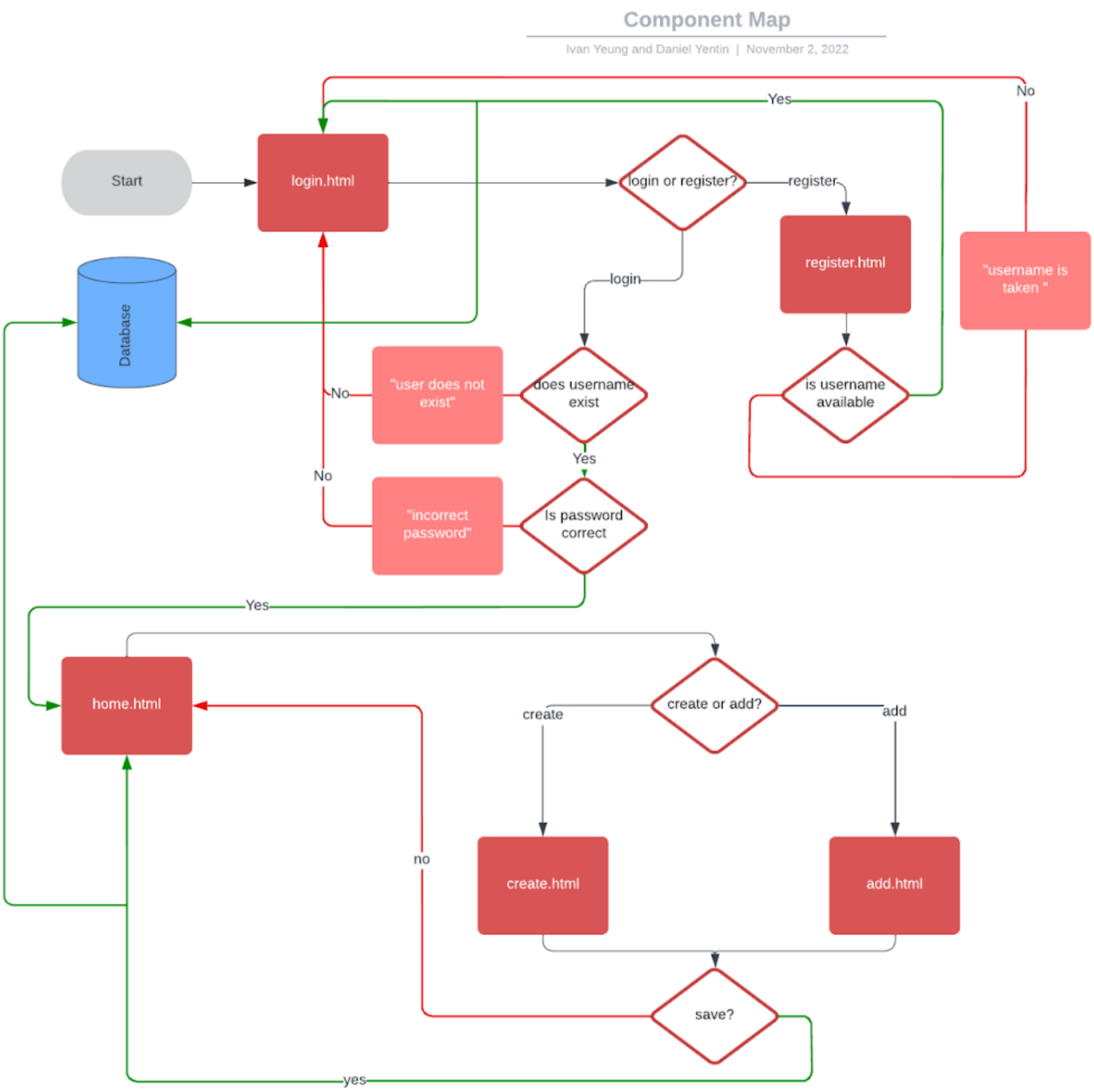
9. @app.route("/add"): renders a page with the last contribution to the story and a text box where user can submit their own addition
10. @app.route("/view"): renders a page with the story that user selected from homepage

b. SQLite3

i. Used in app.py to store data that users provide as they navigate through the site

ii. .db file holding the tables specified in #3 Database Organization

2. Component Interactions/Component Map



Component Map

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3. Database Organization

- **a.** stories: | title | body | publisher | sid
- **b.** <sid>: | contributors | contributions |
- **c.** users: | username | password |
- **d.** <uid>: | stories |

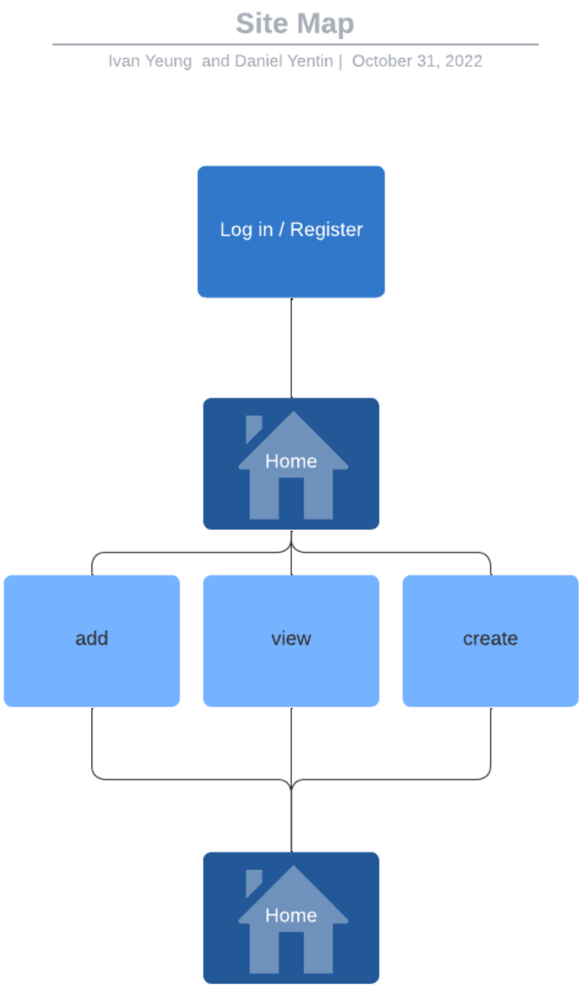
*all fields are of the TEXT type

*<> indicate a variable to be replaced.

* <story> would be replaced by the story’s title

* <user> would be replaced by the user’s username

4. Site Map



Site Map

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5. Task Breakdown

To be decided once the project starts. We do not know how long each part will take, so if one person finishes one part quicker than the other, they will move on to the next part.

Priority:

1. login.html & register.html
2. /login & /register
3. home.html & create.html
4. /home & /create
5. add.html & view.html
6. /add & /view
7. *.css files