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RateS Per Minute

p0-RoH: Design document outlining how to build a story website

2024-10-28

Time Spent: 1 hour

TARGET SHIP DATE: 2024-11-06

Components:

Templates Folder

- login.html
 - Has a form that allows the user to login with a username and password
 - Redirects user to home once logged in
 - Redirects to error if invalid login
- register.html
 - User registration page, allows user to input a username and password to add to the database given the username is not already in the database
 - Redirects user to home if successfully registered
 - Also allows the user to choose to log in instead
- logout.html
 - Page rendered upon successful log out
 - Allows user to return home
- homepage.html
 - Only visible to logged in users
 - Display all stories
 - Allow the user to see a list of all current stories they've contributed to
 - Allow the user to submit new stories as well as access the edit stories page
 - Have a logout button
- Error.html
 - Template for errors, displays an error message and allows user to redirect to log in or register
- edit_story.html
 - Allows user to select a story they have not contributed to through a drop down menu
 - Submit a change and see most recent contribution of open stories they can contribute to

UTL Folder

- `__init__.py`
 - Tells Python that the flask directory should be treated as a package.
- `Db_helpers.py`
 - Contains all helper functions that interact with the database

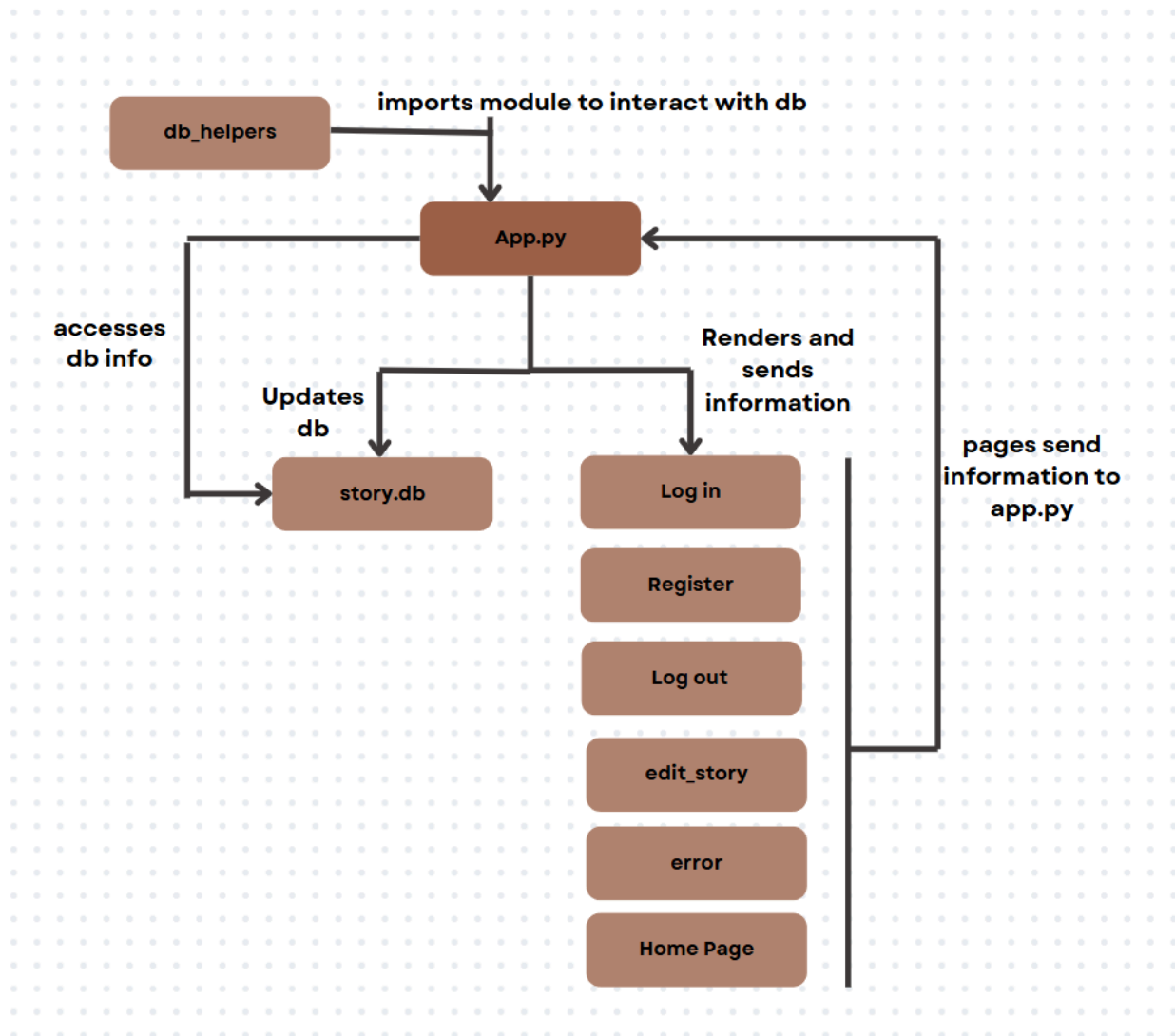
Application Logic

- `app.py`
 - Serves the website
 - Designates which routes lead to which templates and allows the user to maintain and log out of a flask session
 - Contain the functions and code to properly retrieve information from the database as well as edit it
 - Includes tasks such as handling new user information, new stories, etc

Documentation and Assets

- `devlog.txt`
 - Updated by each group member after they push to github and make changes. Maintained by PM. Most recent entry goes on the bottom detailing changes and bugs.
- `readme.md`
 - Roles, description of website, launch codes (how to...)
- `design.pdf`
 - This document.
- `flag.jpg`
 - Our team's flag. Hopefully portending greatness.

Connection Between Components

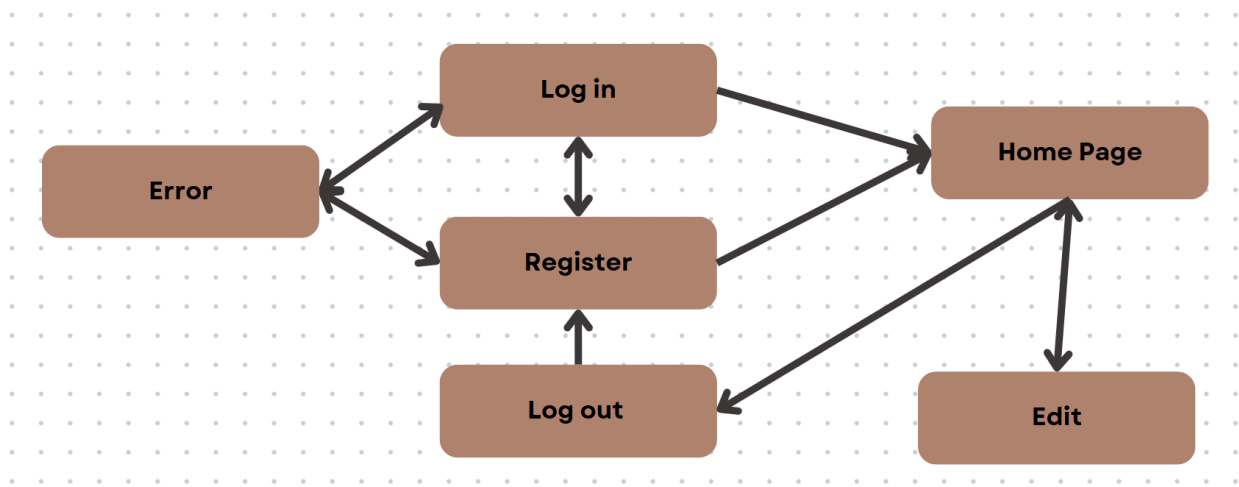


Database Organization

- story.db
- Tables:
 - Users
 - user_id (unique id for each username, type INT)
 - username (unique username used for log in type TEXT)
 - password (password for each username and user id type TEXT)
 - Stories
 - story_id (unique id for each story type INT)

- title (title of the story type TEXT)
- content (actual text of the story type TEXT)
- user_id (user ID present in Users type INT)
- Contributions
 - contribution_id (unique id for every contribution made to a story type INT)
 - Story_id (story ID present in Stories type IN)
 - User_id (user ID present in Users type INT)
 - Content (content of the contribution type TEXT)
- Relationship:
 - It is a one to many relationship as a user can contribute to multiple stories but each contribution will only belong to a single story.

Sitemap



Assignments:

Task	Assigned To
Backend, focusing on user database, login, logout, and register	Moyo
Backend, focusing on managing story and contributions database	Princeden
Frontend, rendering homepage and stories	Suhana
Frontend, css, rendering login/logout, as well	Raymond (PM)

as edit stories	
Design Document	All members