

Team Monkeys

Ariel Schechter, Carlos Hernandez, Arib Chowdhury, Jason Chan



p1 Design Document

Components

Templates / Frontend

The HTML files that make up the front end and have the forms into which users input the data that will then be retrieved by the python program. The pages are specified in more detail in the site map.

Flask

Flask is the python website framework that takes input from the templates and puts it in the database, as well as retrieves data from the database. It also redirects the pages as well as keeps a session of the user that is logged in.

Database

The database stores the data for the website. It is explained in detail in Database Structure.

Component Interaction

Creating New Stories

Users can create new stories. To do so, they will be redirected to storypage.html with added set to false and created set to false. This will lead to the generation of the standard adding form, but with a title menu as well. They will fill out an HTML form with the title and the first entry to the story. The flask component will then add a table to the database and populate the first row with the entry information. Then, also through the flask component, the user will be redirected to the newly created story template page.

Adding to Stories

Adding to stories is similar to creating a new one, and directs the user to storypage.html with added set to false and created set to true. The user gets a preview of the story (the most recent addition) retrieved from a table in a database using python and then displayed on the web page, and then submits a form to add their part of the story to the table.

Viewing Your Stories

Once the user contributes to a story, they are allowed to see all contributions that have been/get made to it, giving them an understanding of how great (or not great) their writing was! They are sent to storypage.html with created = true and added = true, which means that all story entries are put on the screen for them to peruse.

Authentication

Authentication has four main parts: create an account, log in, maintaining a session, and log out. There are separate templates for logging in and creating an account, in which the user submits a form that the framework uses to either create a new row in the user table and start a session, or just start a session for an existing user. The session is maintained by flask and is used to load the page with stories the user has contributed to, as well as when the user creates/ adds to stories. Logging out is a button that ends the session.

storypage.html

	Added = true	Added = false
Created = true	DO NOT generate submission form DO NOT generate title form DO generate all previous entries	DO generate submission form DO NOT generate title form DO NOT generate all previous entries (except last entry)
Created = false	This state should never be reached by the user.	DO generate submission form DO generate title form DO NOT generate all previous entries (they don't exist)

UPDATE: We have replaced the storypage system with a much simpler system of 3 pages: storyCreate, storyAdd, and storyView. This is really nice because it's more foolproof...and because I'm too lazy to code it the other way.

Database Structure

Story Tables (NAME: [story_title])

Each story will have its own table within the database, with its title as the name of the table. The id can be used to track the latest entry as well as the order of entries. The schema of the table for stories will be:

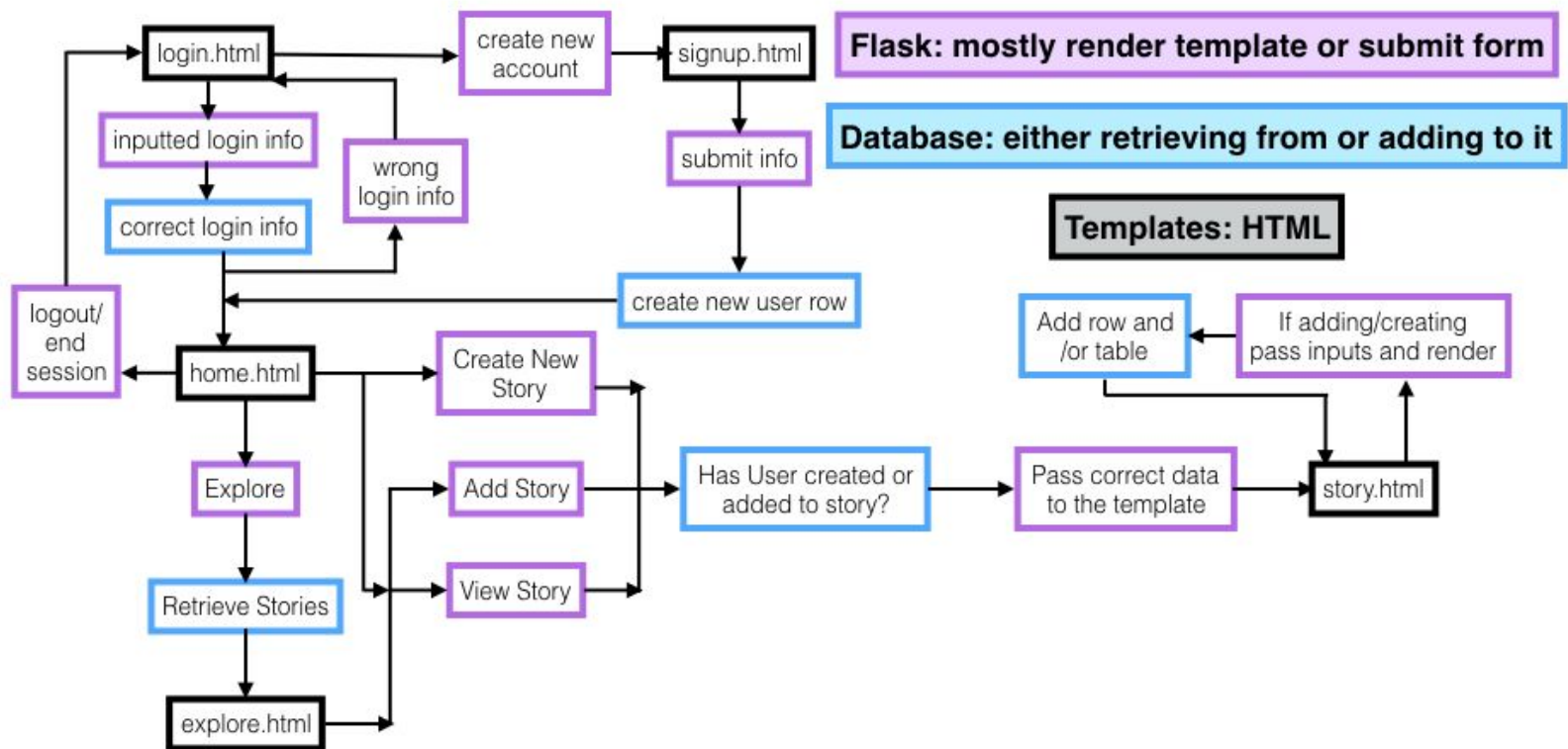
id	user_id	story_contrib
INTEGER	INTEGER	TEXT (200 max)

User Table (NAME: users)

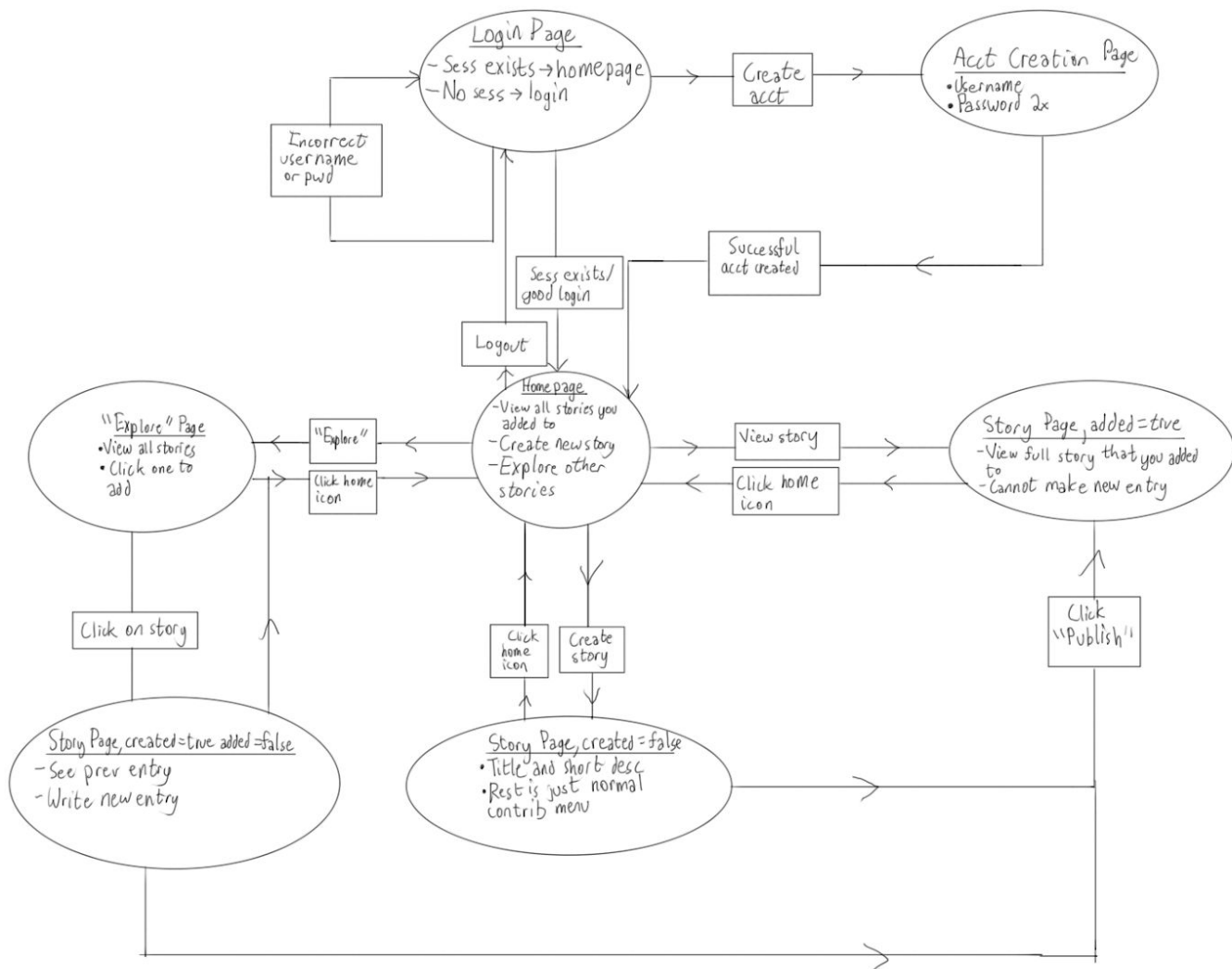
The User table stores the user information of users, like username, password and the list of story_ids they have contributed to.

username	password	story_ids
TEXT	TEXT	TEXT (delimited by ,)

Component Map



Site Map



Modifications

- 1) Redid CSS for website using Bootstrap
- 2) Modified methods to improve functionality and security
 - a) Swapped get and post methods to hide usernames and passwords
 - b) Removed create_buttons and moved its functionality to the HTML for a cleaner design

*Original design provided to us by Greedy Toads