Team TacoCat -- Gordon Lei, Henry Zheng, Angelica Zverovich
SoftDev1 pd8
Project0 -- Tell me a story… or write about it
2017-10-23

The Plan: Option 0
Program Components
- **app.py**: the main .py file that holds all of the functions / methods.
- **base.html**: is the basic template that all other templates extends from. Holds the overall style / html tags necessary. Will be the template used for the root page.
    - **story.html**: a template that extends base.html. Holds the necessary components for viewing stories
        - It holds the background image used throughout all of the story pages
    - **edit.html**: a template that extends base.html. Holds the html tags necessary for editing / creating a new story
        - Holds text fields for adding lines to story / making a new story
    - **home.html**: a template that extends base.html. Holds the design for the home page.
        - Holds buttons to select stories
- **story.db**: the general database that holds tables necessary for the website to work (ex. Storing login profiles / information, stories, etc.) More is listed in the Database Schema.

Database schema
- **story.db** holds:
    - One table (called **users**) for the logins
        - one column for username
        - one column for password
    - One table (called **history**) to store the list of previous insertions
        - one column for username
        - one column holds the id of the stories
        - one column (called content) that has the story (holds the person's contribution to the story)
    - One table (called **stories**) to store the list of the total stories
        - one column holds the id of the stories
        - one column with title of the story
        - one column with the full story
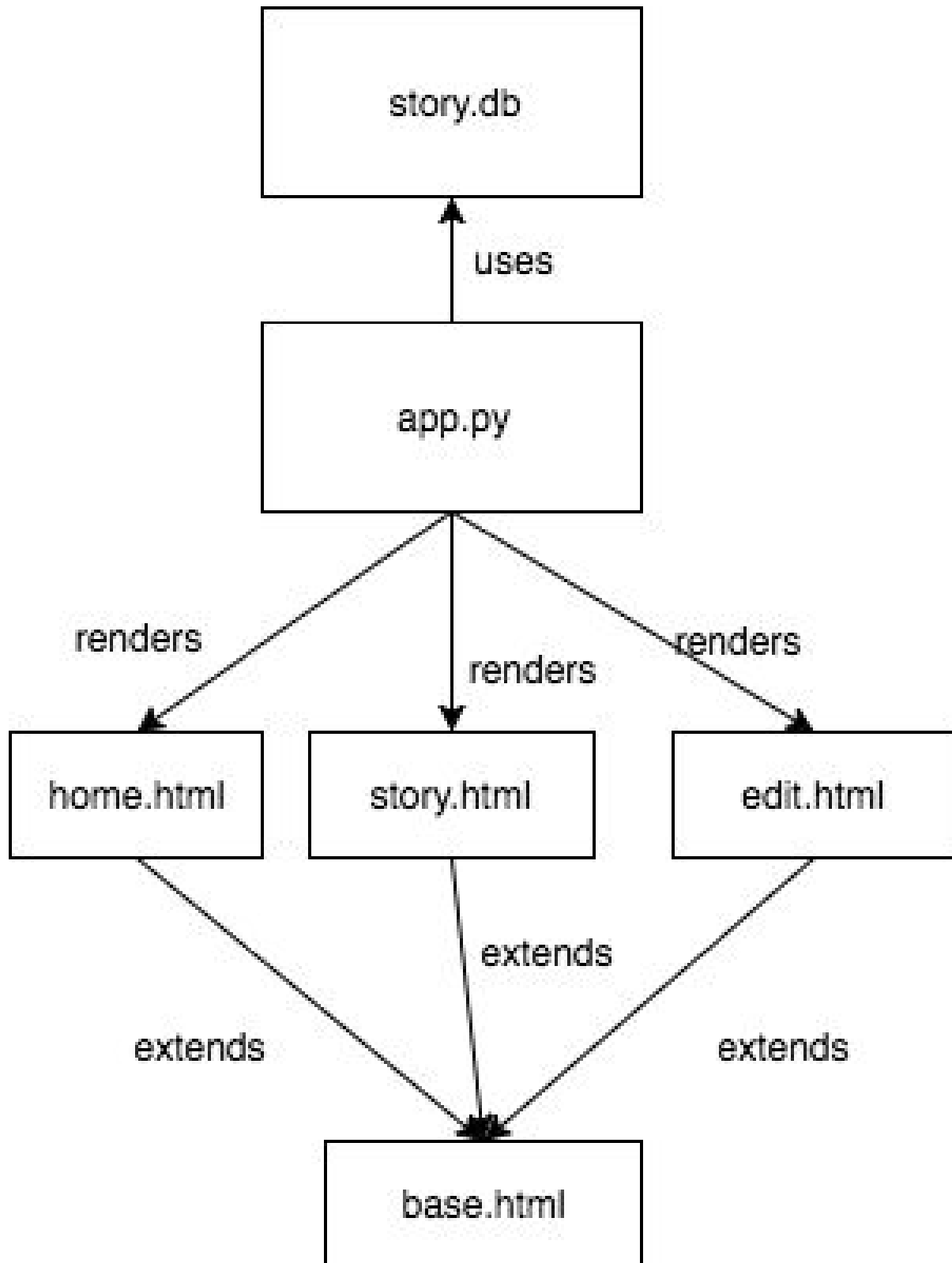   - one column of the previous update to the story

Site Map Explanation

- User starts at **root route** and in the **root page**
    - They have the option of pressing the login button to login (directs to the **login page)** or pressing a button to create an account (still directs to the **login page** but with different look / appearance) .
- At the **login page**, the user will be asked to input their username and password unless if they are creating an account.
    - If the person is creating an account, two text fields will appear asking for a username and password.
        - If the username already exists, a flashed message will appear, telling the user the name is already taken.
        - Once the account is created, it will flash a successful creation message and will either redirect to the **home page** or back to the **login page** to force the person to login.
    - If the login fails, they will return to the **login page** with flashed errors for either inputting the wrong password or typing in the wrong username / the username does not exist.
- Once putting in an existing login information, the person will be logged in to the **home page**.
    - Here the person will see options to either add to a story, create a story, read a story, or edit a story.
- Once the user picks one of the options on the **home page**, they will be sent to the **story route** and into the appropriate story pages
    - **createStory page** is where the user is shown two text fields (one for the tile and one for its contents) and can create a new story.
    - **editStory page** is the page the user sees if they select an existing story that they have not edited in. There will be a text field for inputting the user's additions.
    - **viewStory page** is the page the user sees if they select an existing story they have edited in, if they successfully create a story, or if they just want to read a story. This displays the story's content.
- Within all of the pages except the root page, users have the option to logout, which sends them to the **login route** and directs them to the **root page** with their session logged out.

Tasks

- Front-end: Gordon Lei
    - HTML / CSS
- Back-end: Henry Zheng (PM), Angelica Zverovich
    - Login / Logout
    - Story

Component map

```
                    ┌─────────────────────────┐
                    │                         │
                    │        story.db         │
                    │                         │
                    └─────────────────────────┘
                                 ▲
                                 │ uses
                    ┌─────────────────────────┐
                    │                         │
                    │         app.py          │
                    │                         │
                    └─────────────────────────┘
              renders  │      renders      │  renders
         ┌─────────────┘         │         └─────────────┐
         ▼                       ▼                       ▼
  ┌──────────────┐        ┌──────────────┐        ┌──────────────┐
  │  home.html   │        │  story.html  │        │  edit.html   │
  └──────────────┘        └──────────────┘        └──────────────┘
         │                       │                       │
      extends                 extends                 extends
         └───────────┐         │         ┌─────────────┘
                     ▼         ▼         ▼
                    ┌─────────────────────────┐
                    │        base.html        │
                    └─────────────────────────┘
```

Site map

logout and return to root page

logout route

if the user
decides to edit / create
a story, go to the story
route and into the
appropriate page

home page

Users will go to the
login page if they
want to login / use
this

if login info is right,
proceed to home page

root page → **login page** → **authentication (auth)**   **story route**

checks if login
information is
correct

Users start off at the root page
and are presented with an option to
login.

**home
route**

go to createStory page
if a new story is to be
made

go to editStory page
if the person has not
edited the story yet

go to viewStory page
if the person has
edited the page

once the creation
of the story is done,
go to viewStory
page to read the
story

createStory page → **viewStory page** ← **editStory page**

once the edit is
done, go to
viewStory page
to read the story

if on any of the "story" pages the user wants to logout, go to logout route