

notes-and-code: Hui Wang, Jonathan Song, Ryan Lau

softdev

p00: wiki

2022-10-27

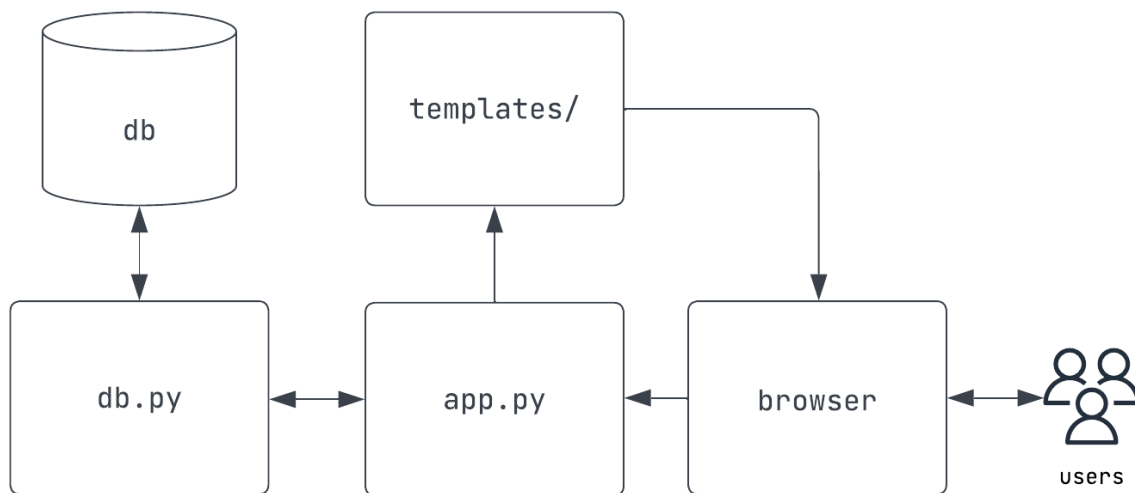
time spent: 1 hrs

target ship date: 2022-11-04

program components

- app.py: flask server, define routes, query db with db.py functions
- templates/
 - home.html: home page
 - search.html: list of search results
 - wiki.html: wiki entry page
 - wiki_form.html: form to create/edit wiki entries
- db.py: contains functions that perform SQL queries on db
 - get entries that match a query
 - get entry
 - create entry
 - update entry
- db: sqlite3 database; see database structure

how the components fit together



0. **User** makes request to wiki from their **browser**.
1. Flask server in **app.py** handles the request.
2. If needed, **app.py** calls methods defined in **db.py** which queries the **db**.
3. **app.py** responds with the **template** with template variables that's associated with the route requested.
4. **Template** response is sent to the **browser** where the **user** can see it.
5. Repeat.

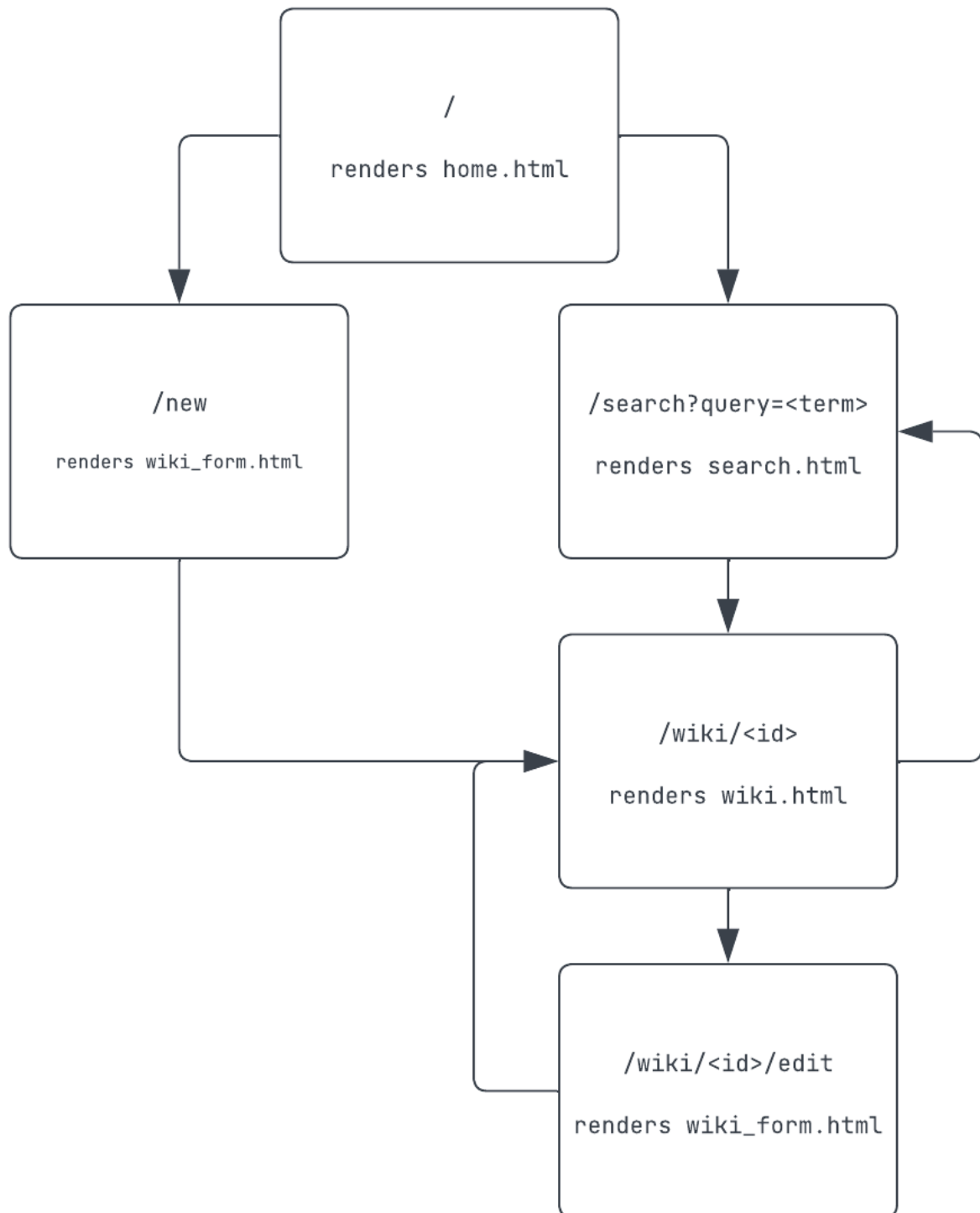
database structure

- entries table
 - id TEXT PRIMARY KEY
 - title TEXT NOT NULL
 - last edited TEXT NOT NULL
 - content TEXT NOT NULL
 - image TEXT

sitemap

- /
 - TNPG + Roster
 - Search bar/form so users can easily find the page they are looking for; sends form data as a GET request to **/search**
 - Link to **/new** for users that want to create new entries
 - Renders **home.html**
- /new
 - Users come here to create new wiki entries
 - Form with title field and content field
 - Redirects to **/wiki/<id>** of page created on form submit
 - Renders **wiki_form.html**
- /search?query=<search_term>
 - List of wiki entries from database with links to the actual entry page
 - Search bar so users can look for different pages if they don't find what they are looking for
 - Renders **search.html**
- /wiki/<id>
 - Contains information from db entry associated with the id
 - Search bar so users can look for different pages if they don't find what they are looking for
 - Renders **wiki.html**
- /wiki/<id>/edit
 - Similar to **/new** but form fields will already be populated with the content from database and title should not be able to be edited
 - Redirects to **/wiki/<id>** of page edited on form submit
 - Renders **wiki_form.html**

frontend flow:



tasks

- create fake data
 - assigned to **everyone**
- create SQL queries from sqlite3 shell to populate **db**
 - assigned to **jonathan**
- create functions based on SQL queries in **db.py**
 - assigned to **jonathan**
- create html files
 - assigned to **ryan**
- create flask server in **app.py**, define routes from **sitemap**, connect routes to **templates**
 - assigned to **hui**