

alMONd JOY - Nancy Cao, Maddie Ostergaard, Jessica Yang (Project Manager)

Overview - Masterpiece

Masterpiece is essentially Google Docs on steroids. Our main purpose is to address the hardest step in writing: coming up with a good idea and starting to write. Our document page is divided into three sections. The center is the area where you can start to write, typical of any word processor. However, we are introducing a chatbot to your left, an interactive program that helps you brainstorm ideas based on your needs. To your right is a comments section, where you can see advice that other users provide (for a published, public document). We will have a library of all the public documents available, where you can freely offer assistance or become inspired.

The chatbot will be incorporating information pulled from the Goodreads and Theysaidso APIs. For example, if your assignment is an essay on human rights, some possible responses from the chatbot may include books written by civil rights activists or famous quotes on the theme of human rights. If you would like to write an essay on a particular book, we may provide some important quotes from the book to help you get started.

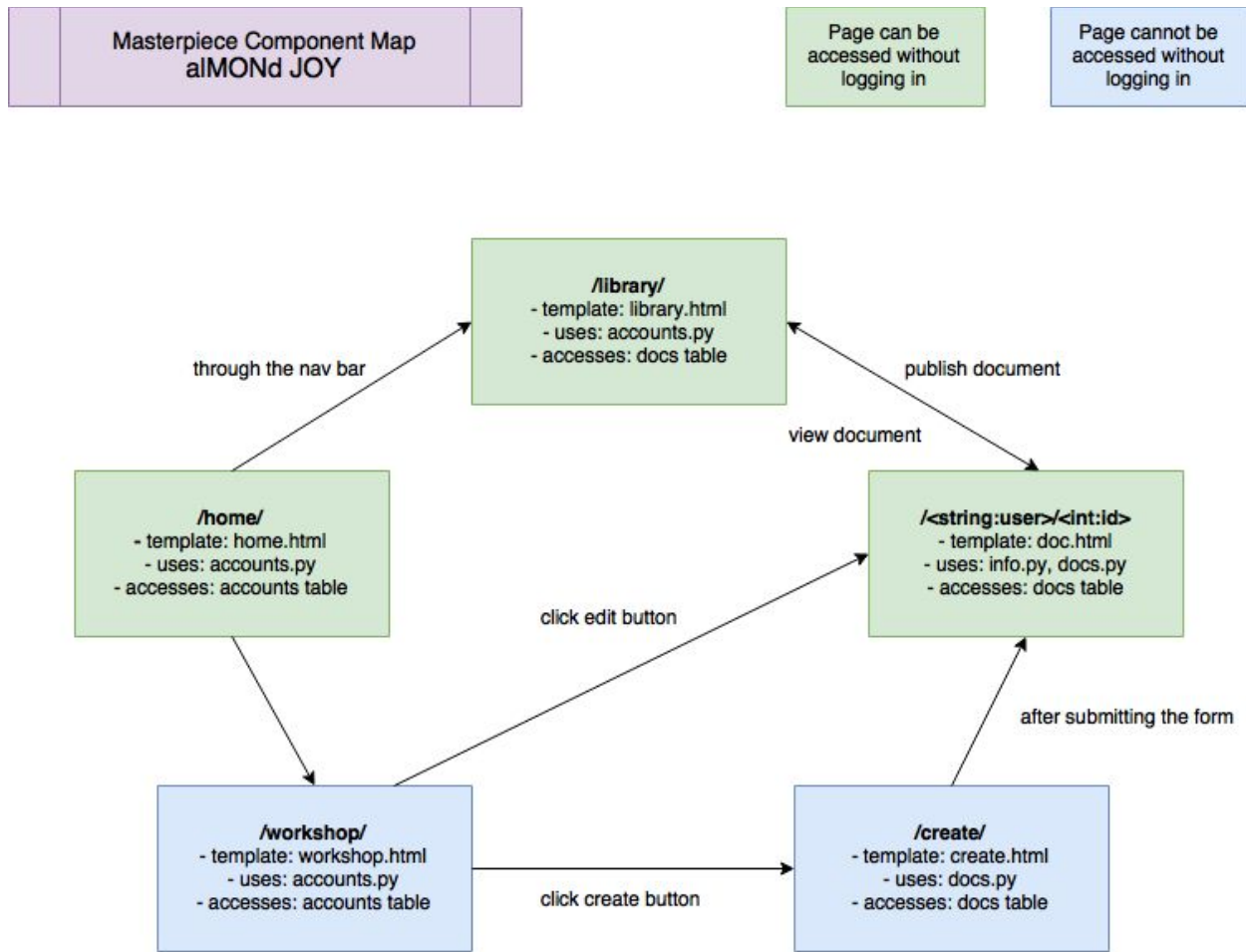
A unique feature of Masterpiece is allowing the user to limit procrastination through the push of a button. Should the user choose to enable this feature for a particular document, s/he will be redirected to the document's page even if s/he tries to navigate to other pages in Masterpiece, unless s/he has written a certain number of words. By allowing the user to stay on task, the user will be able to complete his/her assignment more efficiently.

Component Description

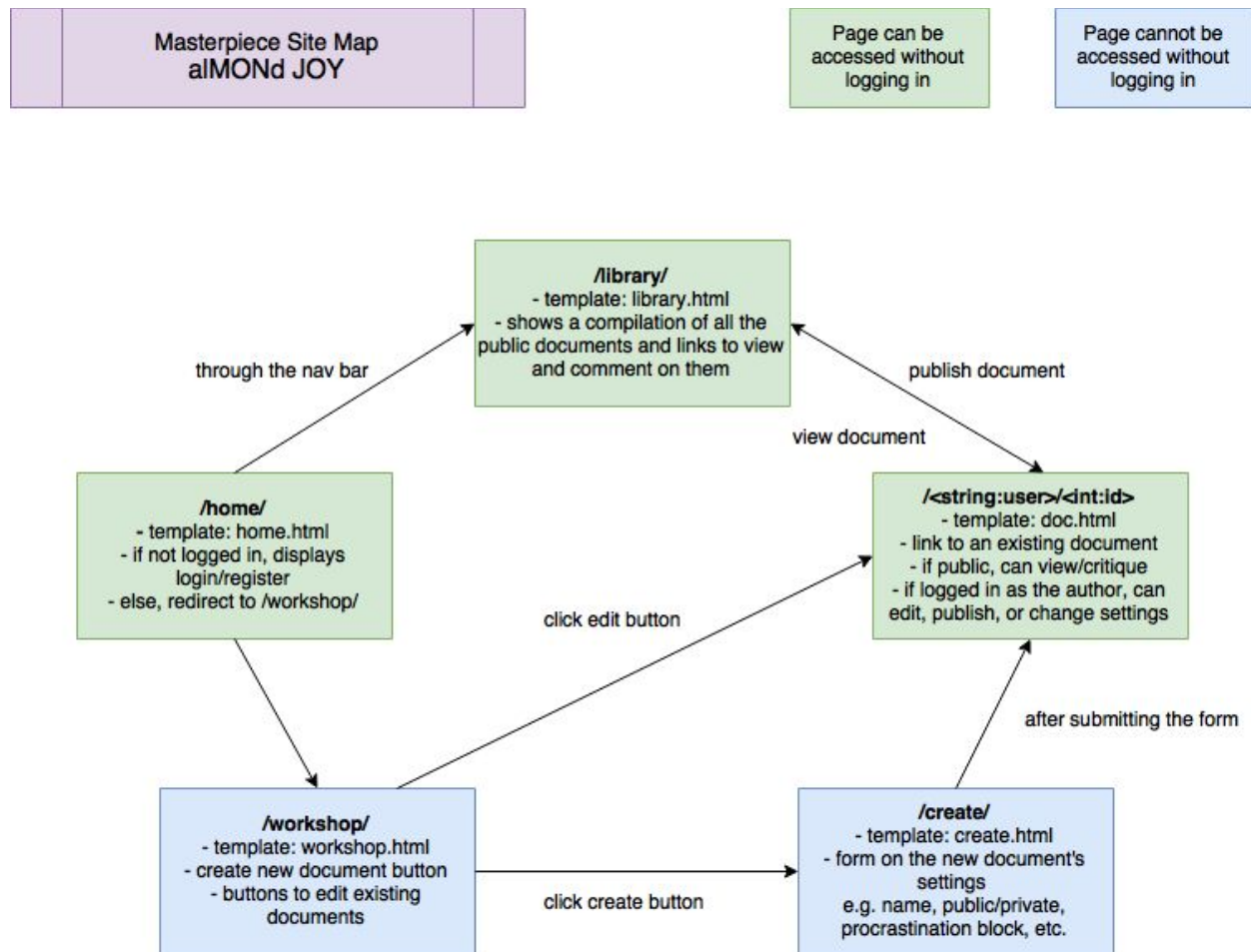
- app.py - Flask app which incorporates all of the helper functions from utils
- data/
 - database.db
 - Accounts Table - usernames, passwords, id
 - Docs Table - content/link to doc, id, private/public, comments
- templates/
 - home.html - has login and registration, with a description of how Masterpiece works and its purpose
 - workshop.html - has a create new document button and buttons for your existing documents
 - create.html - has a form with the settings of your document
 - E.g. Name, public/private, option for procrastination block
 - library.html - a list of all the public documents and links to them

- doc.html - has Google Docs embedded in the center, publish button, brainstorming chatbot on the left, comments section on the right
- profile.html - includes a bio written by the user and a list of public documents written by the user (and links to them), maybe the user's three most recent comments
- utils/
 - accounts.py - includes functions related to login and registration
 - docs.py - includes the functions necessary for utilizing the embedded Google Docs (writing phase of a document)
 - info.py - includes functions that pull information from the Goodreads, Thesaidso, and IBM APIs (brainstorming phase of a document)
- static/
 - css files (Bootstrap)
 - javascript files

Component Map



Site Map



Database Schema

- database.db
 - Accounts Table - usernames, passwords, id
 - Docs Table - name/title, content/link to doc, id, private/public, comments
 - Not sure yet if we'll store the contents of a document or the link to the Google Doc (maybe both)
- Goodreads API: <https://www.goodreads.com/api/index#book.title>
- Quote API: <https://theysaidso.com/api/#>
- Google Drive (for creating google docs):
<https://developers.google.com/drive/v3/web/manage-uploads>
- Bot help API:
<http://www.ibm.com/watson/developercloud/conversation.html#try-it-out-block>

Task Delegation

Nancy - front end: templates, CSS/JS

Jessica - back end: info.py (Chatbot, Goodreads, Theysaidso APIs), accounts.py, database

Maddie - back end: docs.py (Google Drive API), database, procrastination block, comments

Timeline (assuming we have until 1/23...)

1/8: Login/Registration functions (accounts.py) finished.

1/9: Homepage HTML finished. Get quotes/books functions (info.py) finished.

1/10: Store document settings and contents in database functions finished.

1/11: Library HTML finished.

1/12: User restriction/procrastination prevention functions finished. Chatbot response functions finished.

1/13: Workshop HTML finished.

1/14: Comment functions finished. Retrieving data from database functions finished.

1/15: Docs page HTML finished.

1/16: Sharing/downloading documents functions finished. Navigation bar redirecting functions finished.

1/17: User profiles HTML finished.

1/18: Review/revamp code to account for errors/exceptions.

1/19: Loading screen animation finished.

1/20: Review different pages to make sure everything works as it should and try to find bugs.

1/21: Tweaking, debugging, testing, and last-minute beautifying

1/22: Tweaking, debugging, testing, and last-minute beautifying

1/23: Tweaking, debugging, testing, and last-minute beautifying

Other

- How to embed Google Docs: <https://community.canvaslms.com/docs/DOC-1885>