Milestone 4
Team 013-07
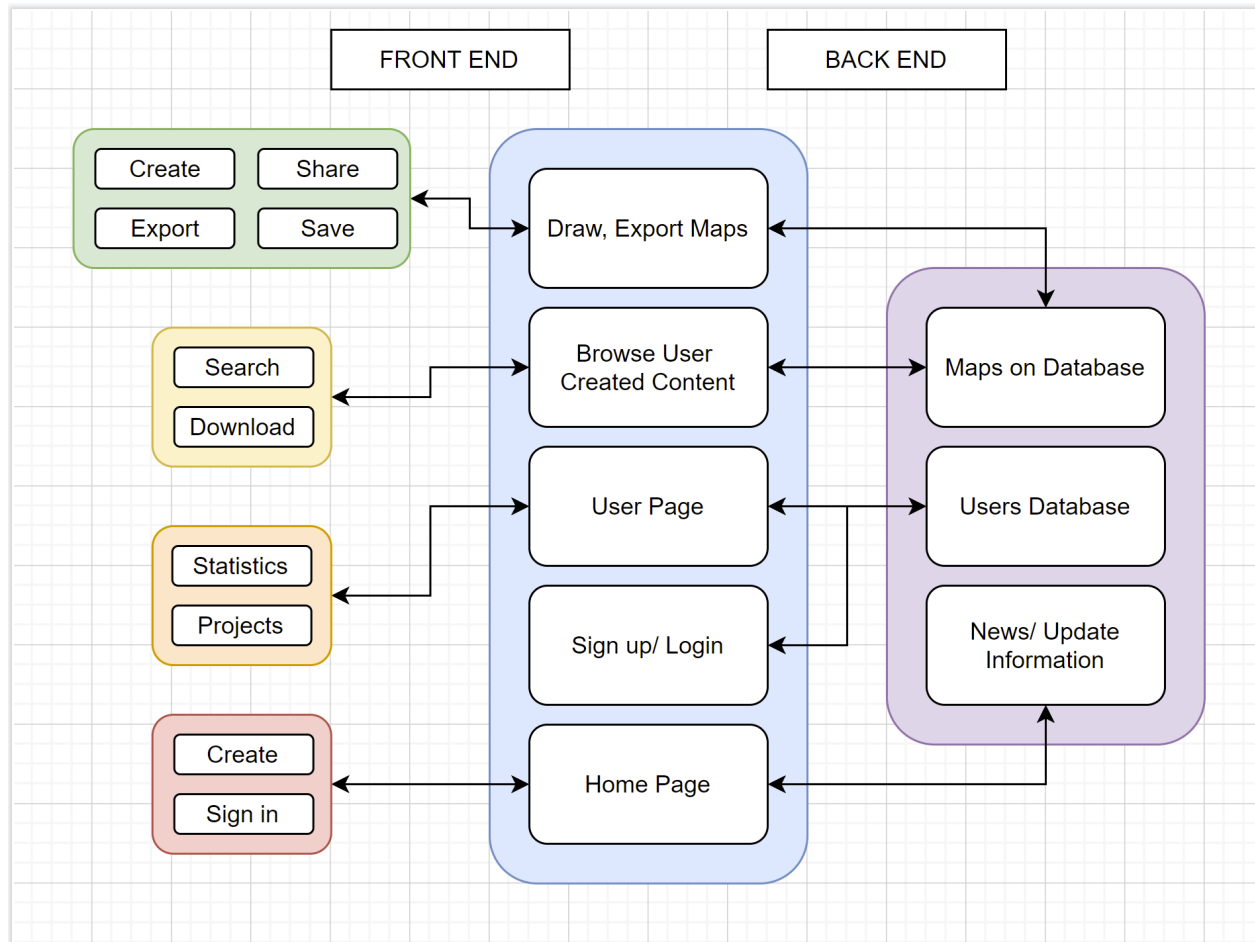
Revised list of features

- Sketching Interface
  - Draw on Click - js canvas functions
  - Color Pallet - buttons / switch statements
  - Erase
  - Save / Clear Canvas
  - Export to file tpe (.png, .jpg, .svg)
- Login/Sign Up Pages
  - PHP and MySQL
  - Database created and user table made
  - Connected to database
  - General format of forms made
  - Error handling for both forms
  - Session starts once signed up/logged in
  - Used PHP functions to prevent SQL injection
- Search Drawing Page
  - PHP and MySQL
  - Connects to database and template table made to list drawings by their id, username of user who created it, name of drawing and the date it was last modified
  - User input from search bar is compared to the above columns to find potential results
  - Results are printed in a grid pattern of four drawings per row
- .htaccess File and Error Pages
  - Created .htaccess file to improve user experience
  - Custom error page made for errors 404, 500, 403, 400 and 401
  - Removed .php extension to clean up search bar
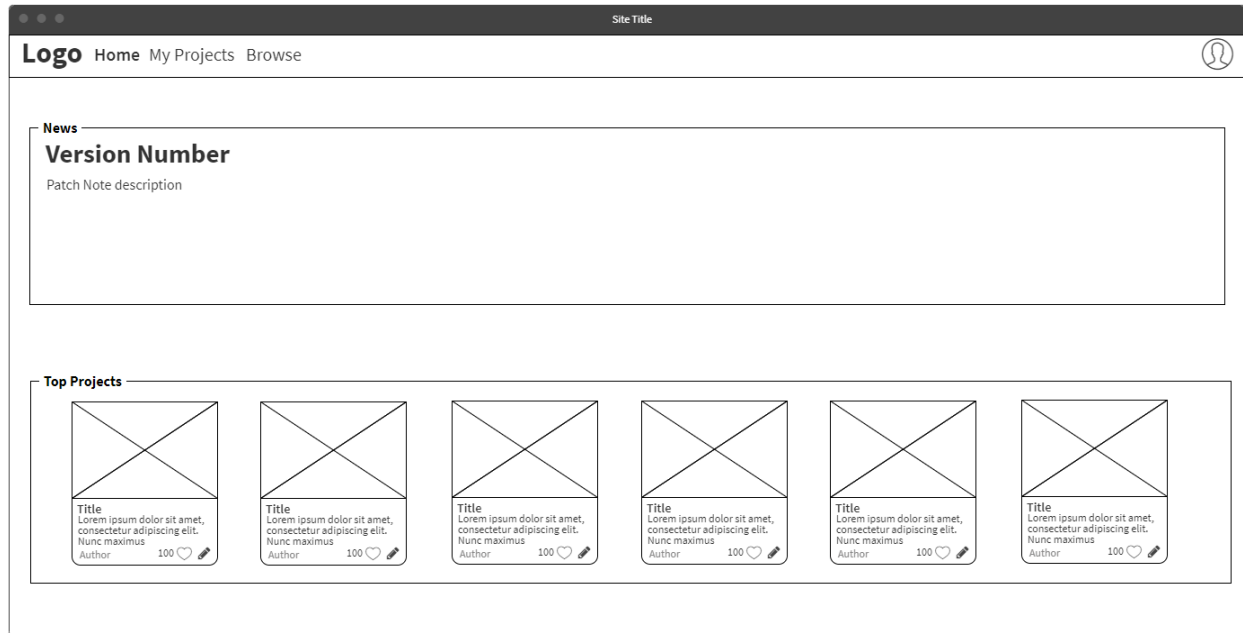
Architecture Design

Our website will follow the following general plan
- Menus to browse user profiles and their maps
- Map creation page
- Site wide map browser
- A home page to track recent events and popular maps
- A login page to point to the home page
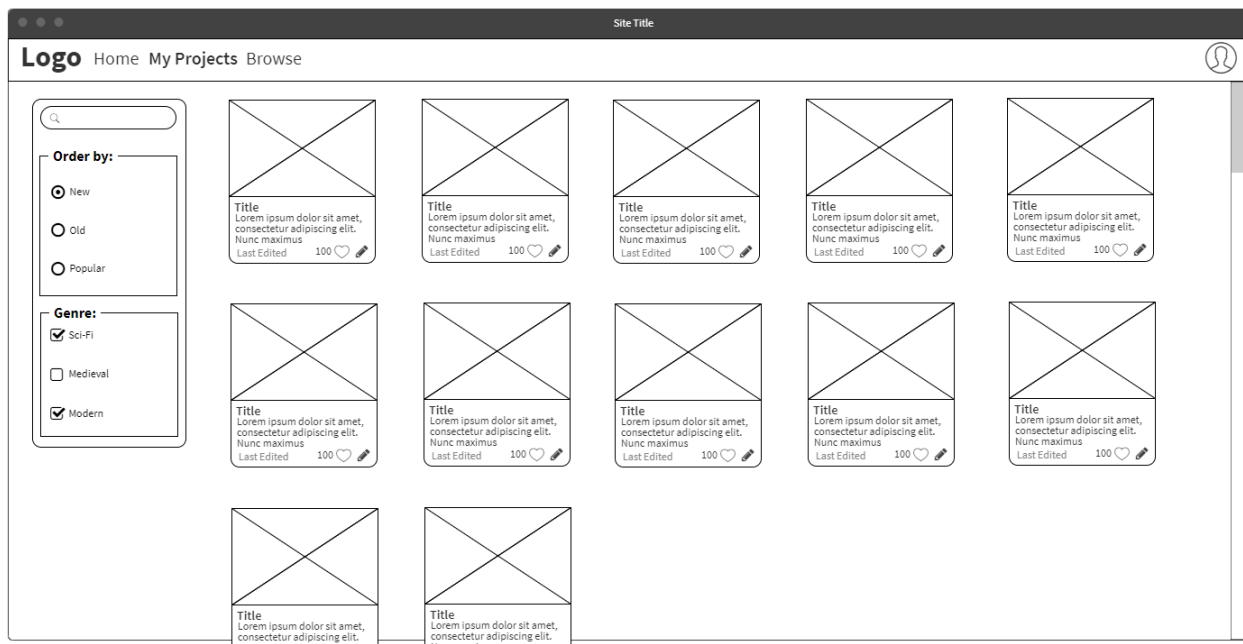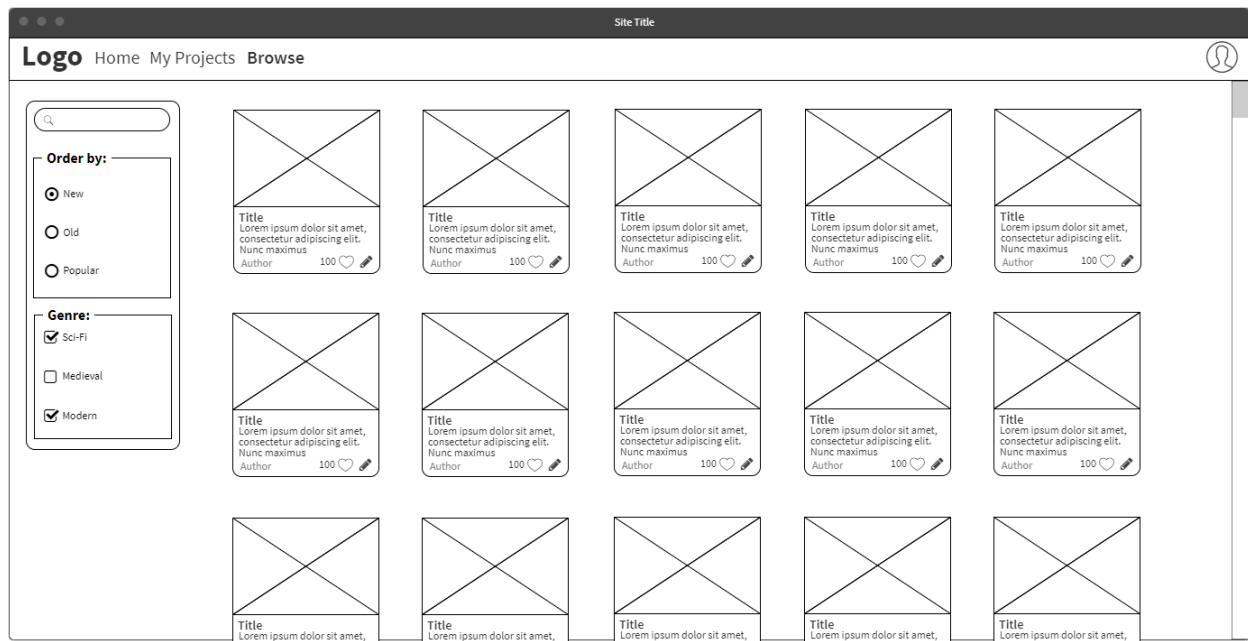- An account page to access user profile page and information
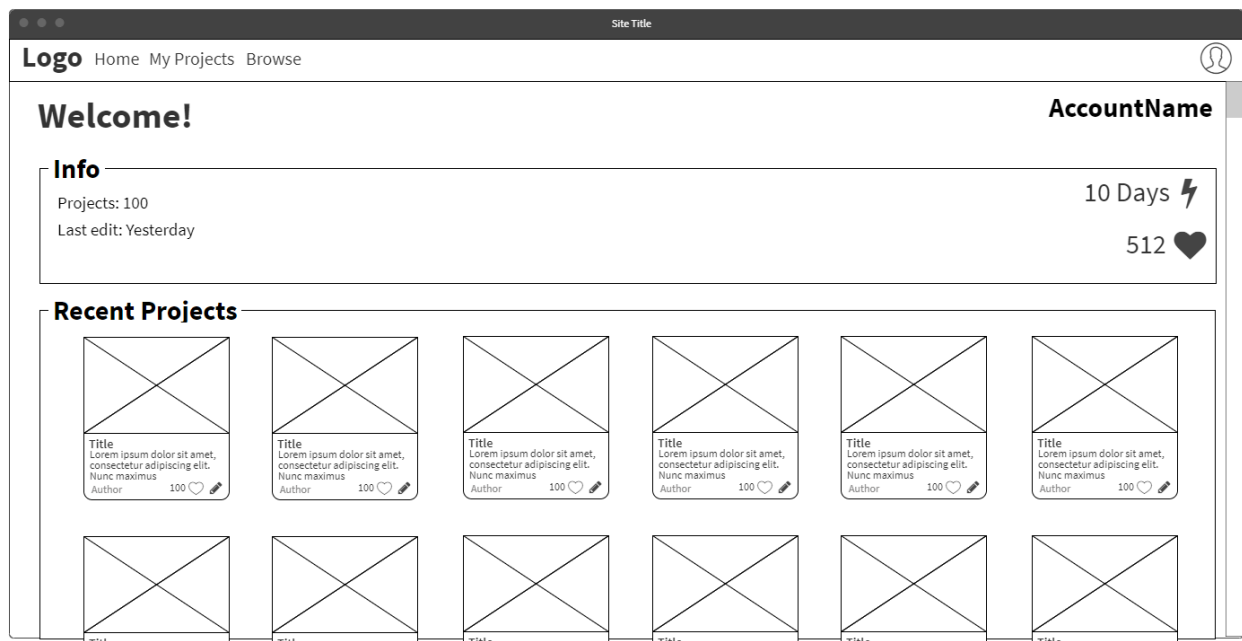
Front End design

Home Page

Logo Home My Projects Browse

News
Version Number
Patch Note description

Top Projects

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My Projects Page

Logo Home **My Projects** Browse

🔍 [search]

Order by:
- ⦿ New
- ○ Old
- ○ Popular

Genre:
- ☑ Sci-Fi
- ☐ Medieval
- ☑ Modern

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Browse

Logo Home My Projects **Browse**

Order by:
- New
- Old
- Popular

Genre:
- ☑ Sci-Fi
- ☐ Medieval
- ☑ Modern

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Account

Logo Home My Projects Browse

Welcome!   AccountName

Info
Projects: 100
Last edit: Yesterday

10 Days ⚡

512 ♥

Recent Projects

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Creation Page

WebService Design

- Not applicable to our project

Database Design

- The DBMS technology being used to store data is via MySQL
- Two data tables at the moment - userinfo and drawings
  - Further will be added to store drawings
- Types of data stored in database
  - userinfo data table
    - User id - auto increment and primary key
    - First name, last name, username and email - all varchar(50)
    - Password - varchar(60) and stored using bcrypt hashing
    - Registration date, last login time - date time
    - Daily streak - int
  - drawings data table
    - This data table uses template data types at the moment, so more may be added or deleted
    - Drawing id - auto increment and primary key
    - Username - corresponding user - varchar(50)
    - Drawing name - varchar(50)

■ Date modified - date time

Challenges

- Fabric.JS did not work properly at first but is now being revisited as a potential solution for drag and drop.
- Some of the bootstrap documentation seems to be outdated, may need to use more custom CSS
- A risk for the project would be phpMyAdmin during the stage of hosting the website. In the past, I ended up struggling to connect to the database. A potential solution is to look into this problem in the near future and/or look for different database administration tools.

Individual Contributions

- Leif
  - Created the html page and javascript to record drawing inputs from user, duplicate canvas, and export to file type.
  - https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-013-07
  - https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-013-07/tree/main/All%20project%20code%20components/doodle_tests
- Liz
  - Researched the start of attempting to reuse fabric.js
- Nikita
  - Created browse page and framework for other pages
  - Created wireframe
  - Looked into different bootstrap classes and how to recreate a similar effect with custom CSS
- Tyler
  - Created the search function using a template table of information. The reason for using a template table at this point was to figure out what kind of data is necessary to print the results of a drawing search.
    - The search function works via a text-entry form and php on the same page to find drawings with similar information and to print out potential search results
  - Created a .htaccess folder to create custom web pages for error 404, 500, etc
    - Minor feature added to improve user experience
    - Improves user experience by telling the user the page does not exist and to use the nav bar to find whatever they're looking for
  - https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-013-07/commit/0ef87ed481bc8f0ef460a63ec5e464a081dcc322

● A screenshot of the project management board being maintained

Backlog

LA TH EG NF   Epic ⌄   📈 Insights

⌄ **Sprint 1** 1 Oct – 15 Oct (12 issues)   10 0 0   **Start sprint** ⋯
Implement database and front-end foundation for the registration/login forms as well as other smaller functions like search drawings.

▣ Y12-27	User Info Database	DATABASE STRUCTURE	2	TO DO ⌄ TH
▣ Y12-28	SVG Database	DATABASE STRUCTURE	2	TO DO ⌄ TH
▣ Y12-30	Write PHP code to search through drawings database based off of filename and tags. Order by last modified date.	SEARCH THROUGH DRAWINGS	4	TO DO ⌄ TH
▣ Y12-32	Use JQuery/AJAX in order to automatically save modifications to SVG to database.	AUTOMATIC SVG MODIFICATION S...	2	TO DO ⌄ TH
▣ Y12-40	Enable download of svg in chosen format	DOWNLOAD DRAWING		IN PROGRESS ⌄ LA
▣ Y12-41	implement dice roller in html			TO DO ⌄ 🧑
▣ Y12-45	Integrate the parts of the assignemtn			IN PROGRESS ⌄ 🧑
▣ Y12-46	Build base pages: homepages, search page, drawing page, etc			IN PROGRESS ⌄ NF
▣ Y12-47	Implement asset spawning in Fabric.js			IN PROGRESS ⌄ EG
▣ Y12-48	Implement Vector Drawing in Fabric.js			TO DO ⌄ EG
▣ Y12-42	Searchable maps on database			TO DO ⌄ 🧑
▣ Y12-39	Add button to side to download with file type selection	DOWNLOAD DRAWING	⚑	IN PROGRESS ⌄ LA