Milestone 2 - 3308 Team 013-07

Project Feature List

Feature	Description
Registration/Login System	A user is able to register or login in order to access or create drawings
Database organization	How the database should be organized should be planned out thoroughly, so that sudden requirements that would mess up the database are unlikely
Changes made automatically saved and uploaded to database	User would not need to press a button or refresh the page to save changes to their drawings
Create and modify drawings	User is able to create or modify drawings with a given drag and drop system and greyed out grid
Download drawing	Export design into various formats such as .png, .jpg, .svg, .pdf, ect.
Search through own drawings	Search engine that would search for filename or components a specific drawing would have
Minor game-like features	Daily streak where it is incremented for each day they login and work on drawings
Drawing on canvas element	By clicking and dragging the mouse a user should be able to draw lines and shapes.
Stamping elements from toolbar	By clicking and dragging a graphic element from a toolbar, a user should be able to place the element on the canvas
Searchable database	Users will be able to search for and copy/edit other users maps to use in their own games.

Requirements

Feature	Story
Registration/Login System	As a user, i want to use the registration / login system so that i can save the progress of my projects and return to them late
Database organization	As a user, I do not want to have to worry about data lost or having to upload information that I felt should have been given at the start.
Changes made automatically saved and uploaded to database	I want changes automatically saved because it makes it easier for a user than to worry about pressing a button or refreshing the screen to save changes.
Create and modify drawings	As a user, I want to create a new drawing or modify existing drawings I've made.
Download drawing	As a user, I want to store the drawings I make that I can then modify using other tools.
Search through own drawings	As a user, I want the ease of searching through drawings I've made so that I can readily work on them.
Minor game-like features	Having some game-like features would be a reason to help encourage users to return to the website and continually use the service
Drawing on canvas element	As a user I want to click and drag my mouse to draw lines and shapes.
Stamping elements from toolbar	As a user I want to click and drag a graphic element from a toolbar, and I should be able to place the element on the canvas
Searchable database	As a user I want to search for and copy/edit other users maps to use in their own games.

Project Plan

See a link to a jira planning board:
(https://csci-3308-fall21-013-07.atlassian.net/jira/software/projects/Y12/boards/1/roadmap)

Wireframes & Design
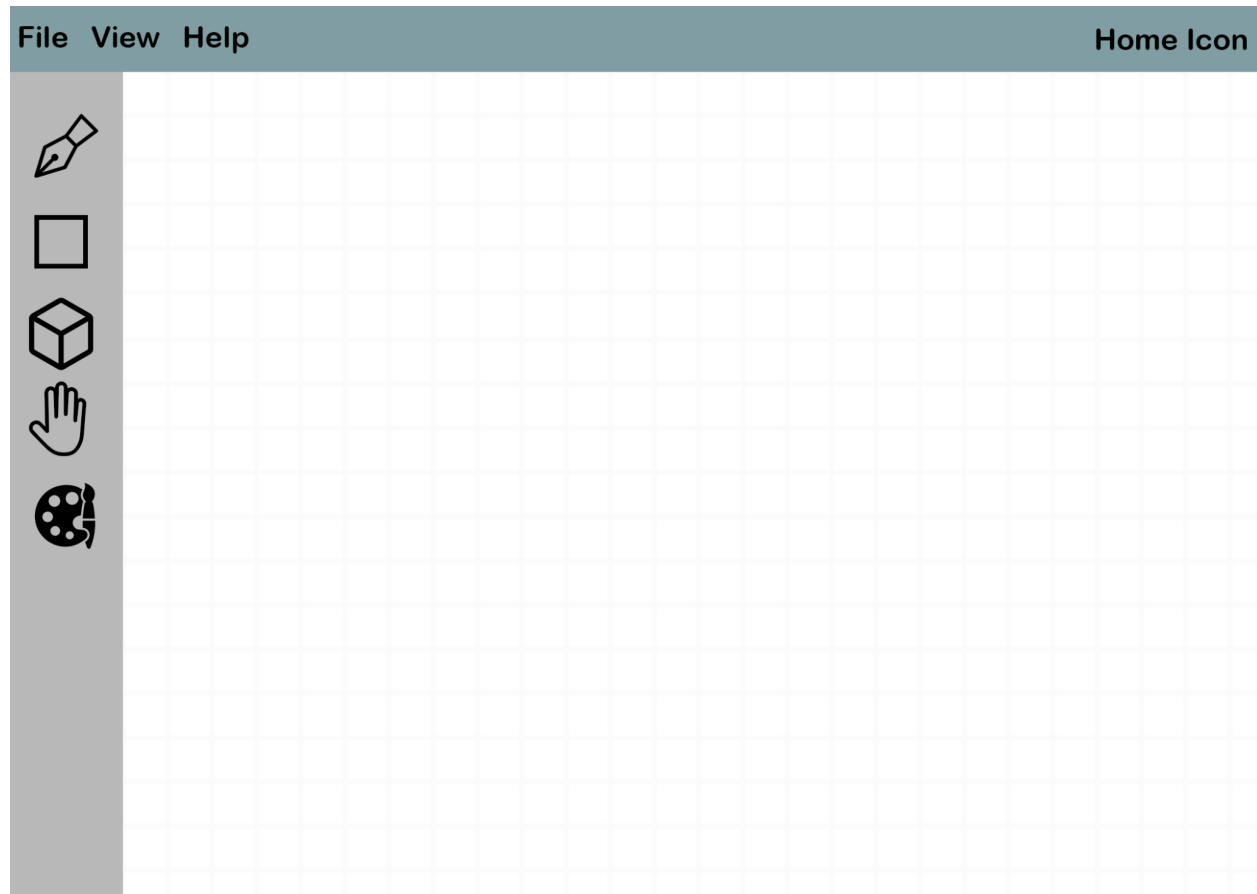
Mockup of the UI.
- Toolbar to the side.
- Grid for visualizing space.
- Menu bar atop for file management.

Individual Contributions

- Tyler
    - I uploaded previous tutorials I've done involving HTML/CSS, JS, PHP, JQuery, and some other potentially relevant tutorials.
    - https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-013-07/commit/98a2e85879589989707a56fd7b1723e0ee2dc96a
- Leif
    - Organisation of current project layouts and workloads
    - Researched an api -- fabric.js -- provides interactive object things on top of canvas element. (http://fabricjs.com/)
    - Researched drawOnClick() js scripts
- Liz
    - Began on UI concept design
- Nikitia
    - Looked into saving a canvas as JSON
    - Looked for different databases that may suit us (firebase, mongoDB, potentially AWS)

Latest Group Git:
(https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-013-07)

Project Management link:
(https://csci-3308-fall21-013-07.atlassian.net/jira/software/projects/Y12/boards/1/roadmap)