

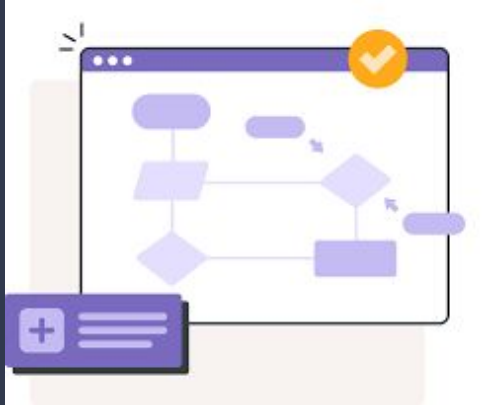
Squibble

By: Matthew Savitt, Aidan Esposito, Parker Jazayeri, Alexander Gordon

Date: 11/18/24



Squibble Description



What does Squibble Do?

- Squibble is an online whiteboard application that allows multiple concurrently authenticated users to add media to the whiteboard
- Media includes text, images, gifs, drawings, and post-it notes
- This media then gets reset after 3 days and archived on a separate archive page

Project Goals



Project Goals:

- Have a functioning application that runs smoothly and is able to be completed throughout the fall semester
- Fun and allows creativity to run wild
- Create an application we all have mutual interest in
- Expand our knowledge or react and firebase

Project Justification



JUSTIFICATION



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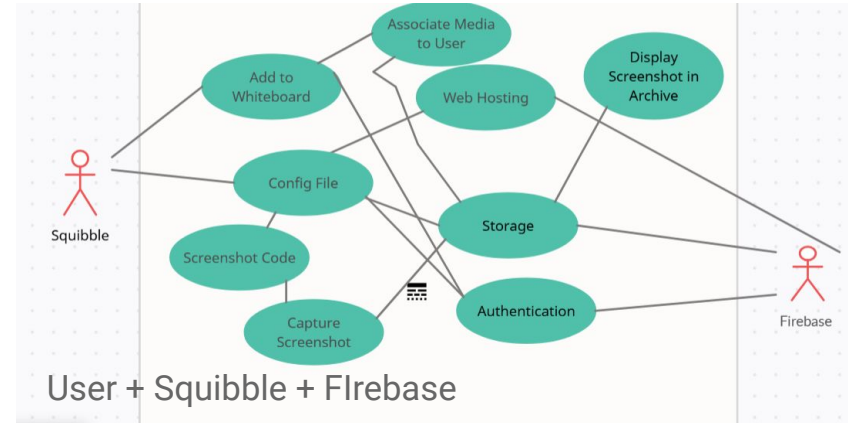
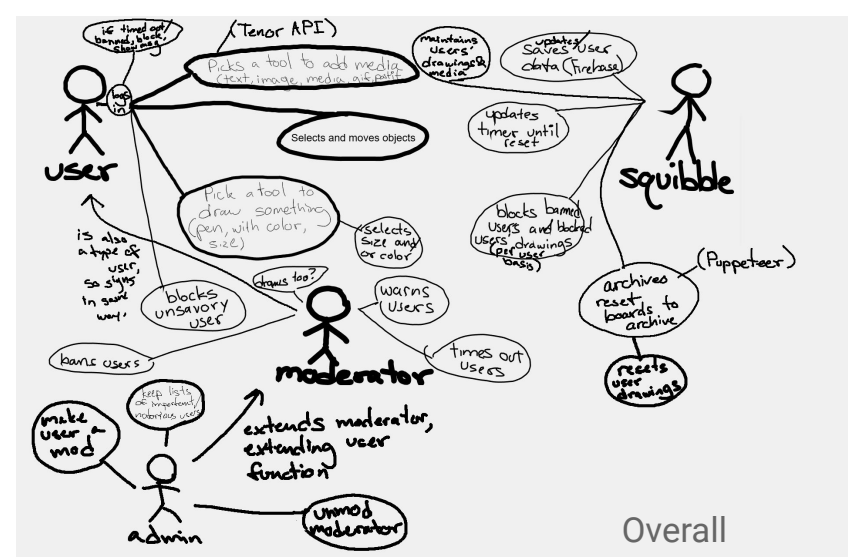
Project Justification:

- Squibble is interesting and a collaborative application to foster creativity
- Aligns well with our web dev experience, specifically with react and firebase while also learning more about API integration
- Leverages knowledge from our previous web app and mobile app courses to implement responsive interface and interactive media features
- A realistic goal to be completed by the end of the semester

A collection of various art supplies including scissors, pencil sharpener, brushes, paint palette, tubes of paint, pencils, eraser, ruler, and an easel.

- Provides creative sketching and design tools (various brush sizes with different color options)
- Ability to annotate and upload different images of choice or gifs from toolbar
- Automatic archiving every 3 days enabling free expression and promoting users to safely express ideas
- Access to previous whiteboard if needed

Use Case Diagrams



User Interface

- User is presented with a side menu that houses their tools, which stay out of the way.
- The media menu can also be used to add other types of image media.
- User signs in before drawing or adding media.

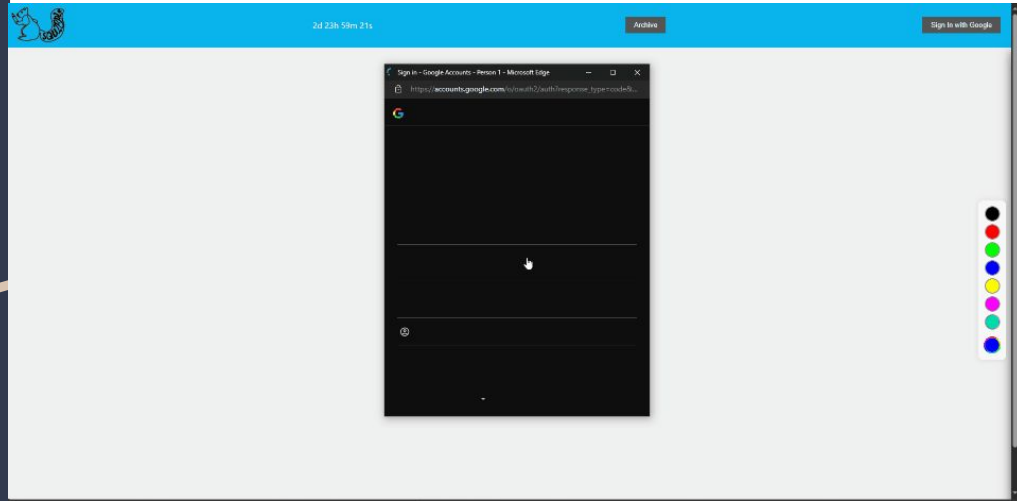


Diagram – Firebase

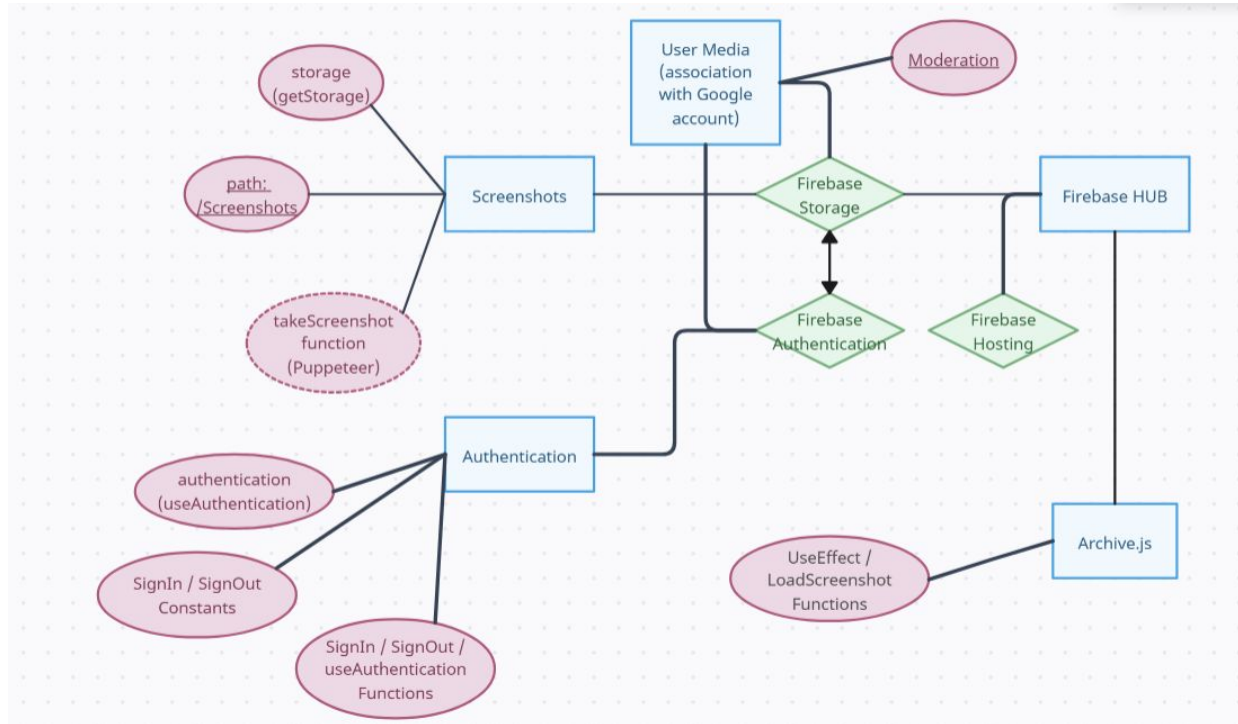
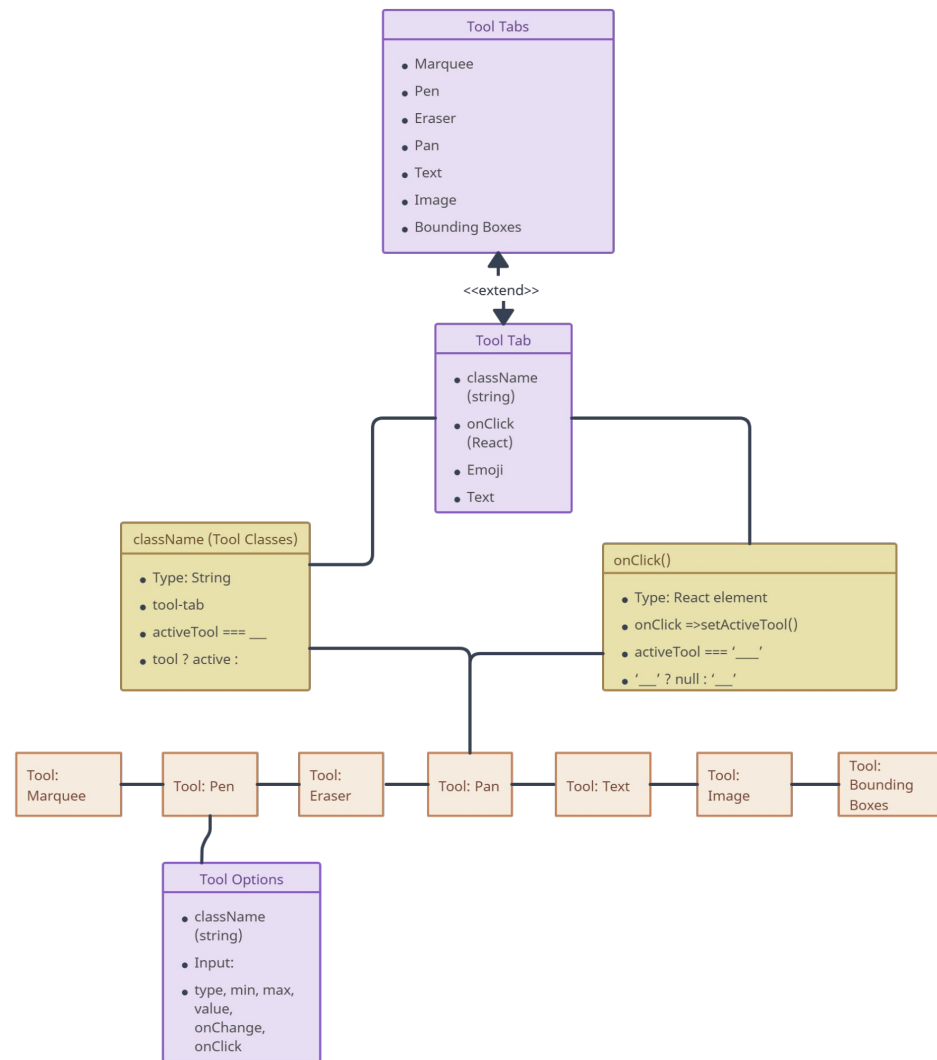
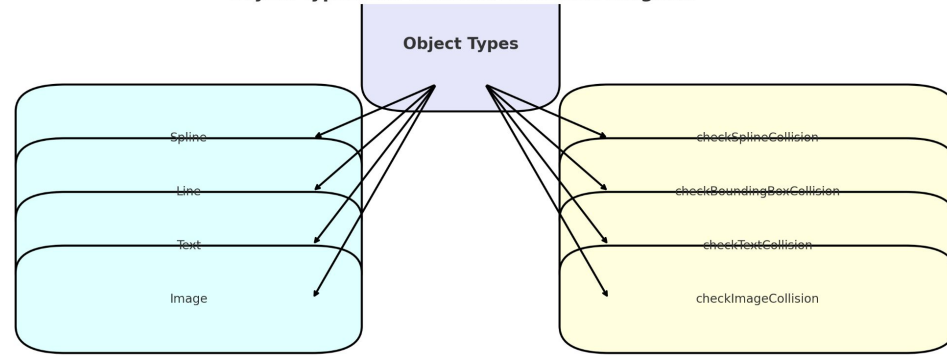


Diagram – Tool Interactions

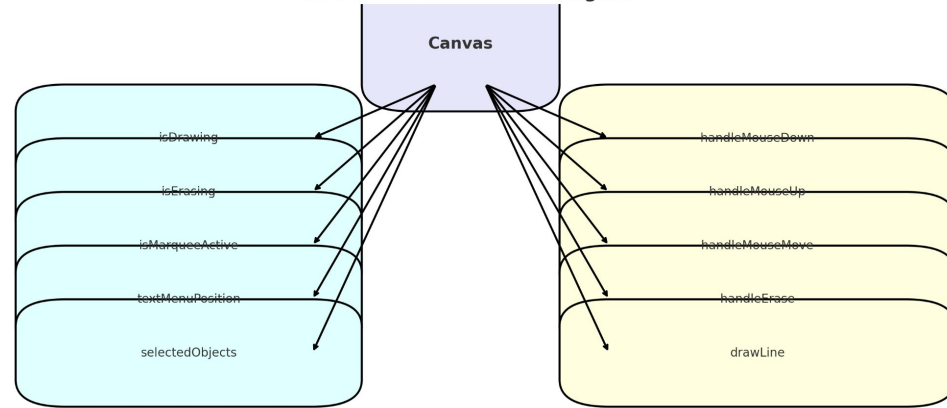


Diagrams Cont.

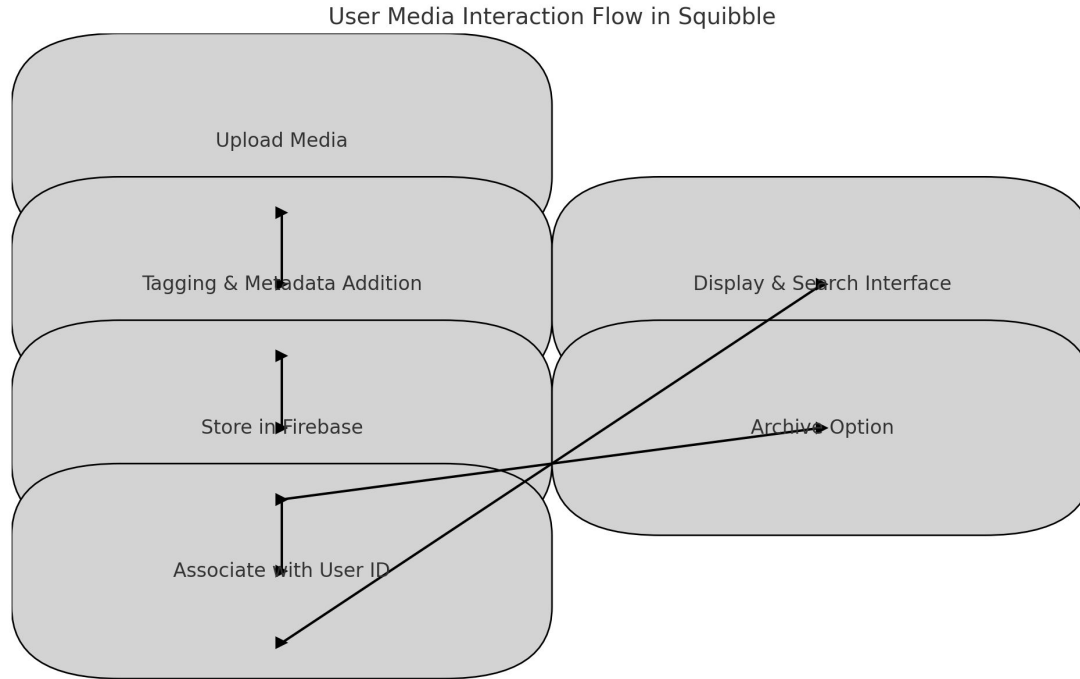
Object Types and Collision Detection Diagram



Canvas State and Actions Diagram



Diagrams Cont.



Demonstration



Project Challenges



Project Challenges:

- Capability of handling multiple people at once; scalability
- Managing Firebase rules through authentication and linking each individual users media to a separate Firebase storage
- Displaying screenshots from Firebase pull with the puppeteer extension
- State management between state variables and hooks, maintaining consistent state management of a variable between several functions and effects.

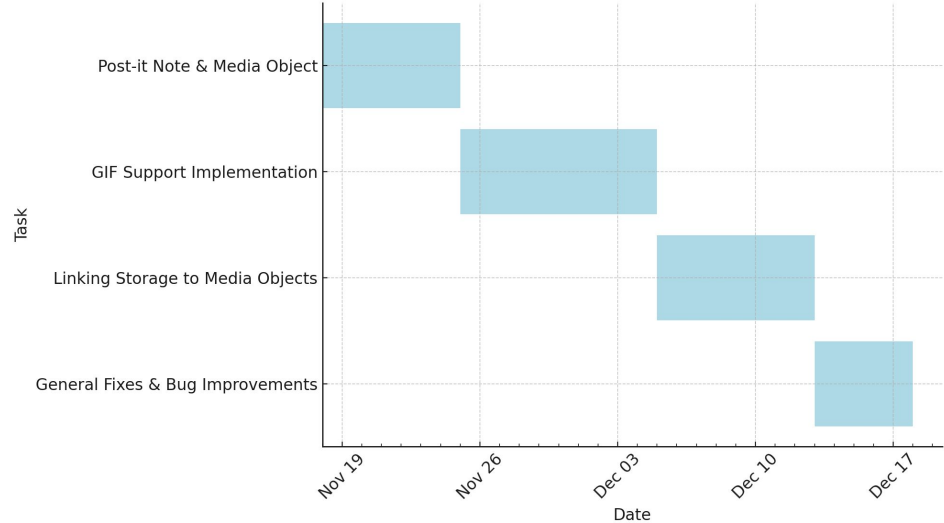
Status Update

Team Name	Resources	Tasks
Aidan	Windows 11, VS Code	<ul style="list-style-type: none"> - Link current media to Firebase and allow user linkage with storage - Post-it work - Host and update website
Matt	Windows 10, VS Code	<ul style="list-style-type: none"> - Tool Updates - Bug Fixes - Firebase help
Parker	Windows 11, VS Code, Testing on non-Chromium (Firefox) which has shown some differences	<ul style="list-style-type: none"> - Integrate API for GIF search and addition (Tenor/Giphy) - Post-it work - Bug Fixes
Alex	Mac Laptop, VS Code	<ul style="list-style-type: none"> - Post-it work - Firebase help - Bug Fixes

- Below is our schedule for work until the end of the semester and going forward.....



Updated Gantt Chart for Project Timeline



Thank You and Questions



It's pronounced /dʒɪf/ !

