CSCI 3308 Project Milestone 4
Team We Can Come Back To That
(Recitation 105, group 3)
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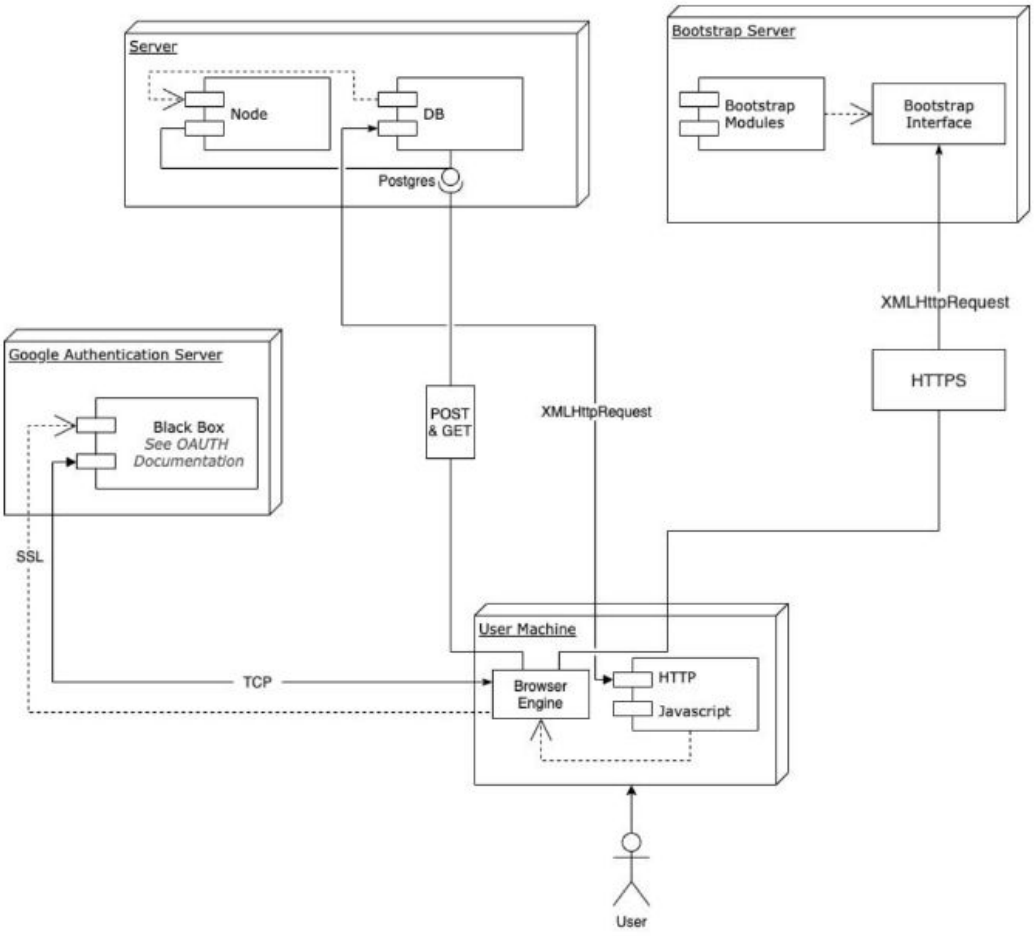
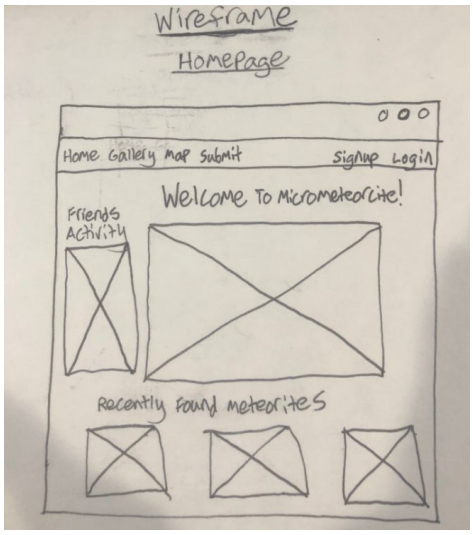
Revised List of Features:
-Note that the features are ordered chronologically with features at the top being the ones to be developed first and features at the bottom being the ones we plan to develop last

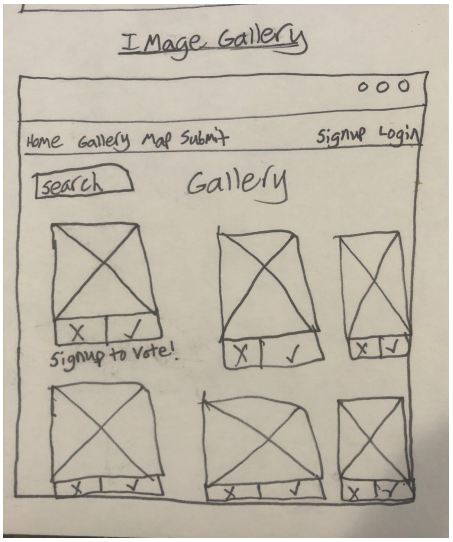
- Data Submission:
    - Allows for user submitted data
    - Has a form submission that collects a photo to be stored in the database, location found, type of meteorite, size, date found
- Image Galleries
    - Has galleries of uploaded images that can be filtered by the characteristics listed above
- Mapping & Location Visualization:
    - Has mapping/location visualization functionality where pins can be dropped into an interactive map that shows where past meteorites have been found
    - Has a map that can be filtered by different data items (meteorite type, size, date found, “heat map” of found locations)
- Community Voting:
    - Allows community verification/up & down voting on submissions to improve the quality of the database
- User Login
    - Has a user login system.
    - Public API allowing safe authentication through third party
- Search Bar:
    - Intelligent search function that filters micrometeorites by search terms/tags
- Website friends feature (allows users to become friends on the website):
    - This is an addition we will make only if we finish all of the above requirements and have additional time
    - Allows users to message friends, and has users see their friends meteorites first

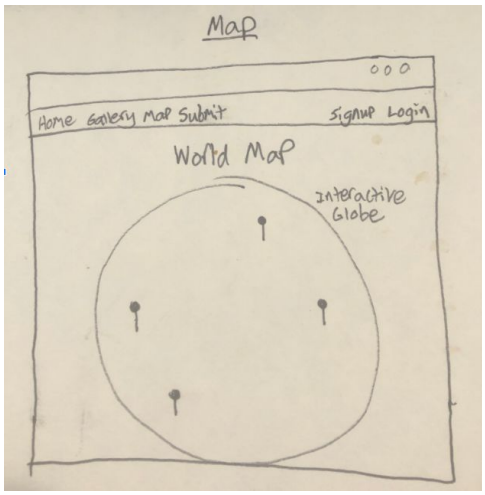
Architecture Diagram:

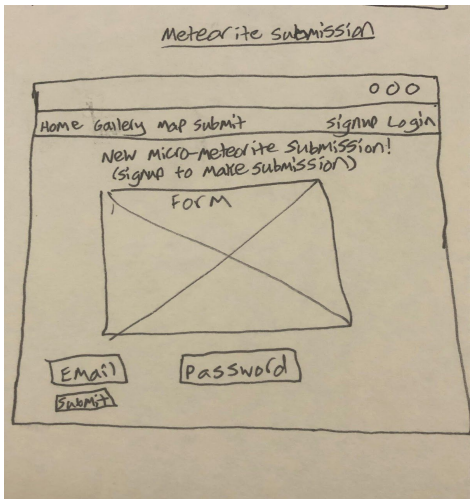


Front End Design:









Web Service Design:

-We are still in the process of fully learning how to use JSON and XML to serialize and transmit our structured data from the web application and database to the server we are hosting our website on

Database Design:

-We will be using PostgreSQL to create and maintain our database

-We will have 3 main tables in our database. The first will store all of the unique users who create accounts on our website, the second will store all of the micrometeorite images, and the final table will store all of the rock attributes for each of the micrometeorites. It is important to note that the image_id which will be the primary key in our micrometeorite table will be used as a foreign key in the rock_attributes table.