Project Features List:

- Create a UI - Display of machine learning information; UI element that displays the number of trials currently having been undergone until success is reached.
- Implement Maze Learning Algorithm - Machine learning navigator algorithm; The automated navigator that repeatedly attempts to solve the maze
- Expand Upon Basic UI - Customizable grid maze; User is able to customize features of the maze by editing a grid. The AI will then attempt to navigate this maze based on the user's input.
- Build Backend to Save Maze / Algo Information - Option for users to name and save their maze; A way to title their maze and save the data included in key feature 1 to record completed maze data that can be used to further enhance the navigation algorithm.
- Allow Users to Increase Maze Difficulty - Additional objectives; Traps, objectives, additional factors that add more complexity to the maze than traversing point A to point B

Requirements:

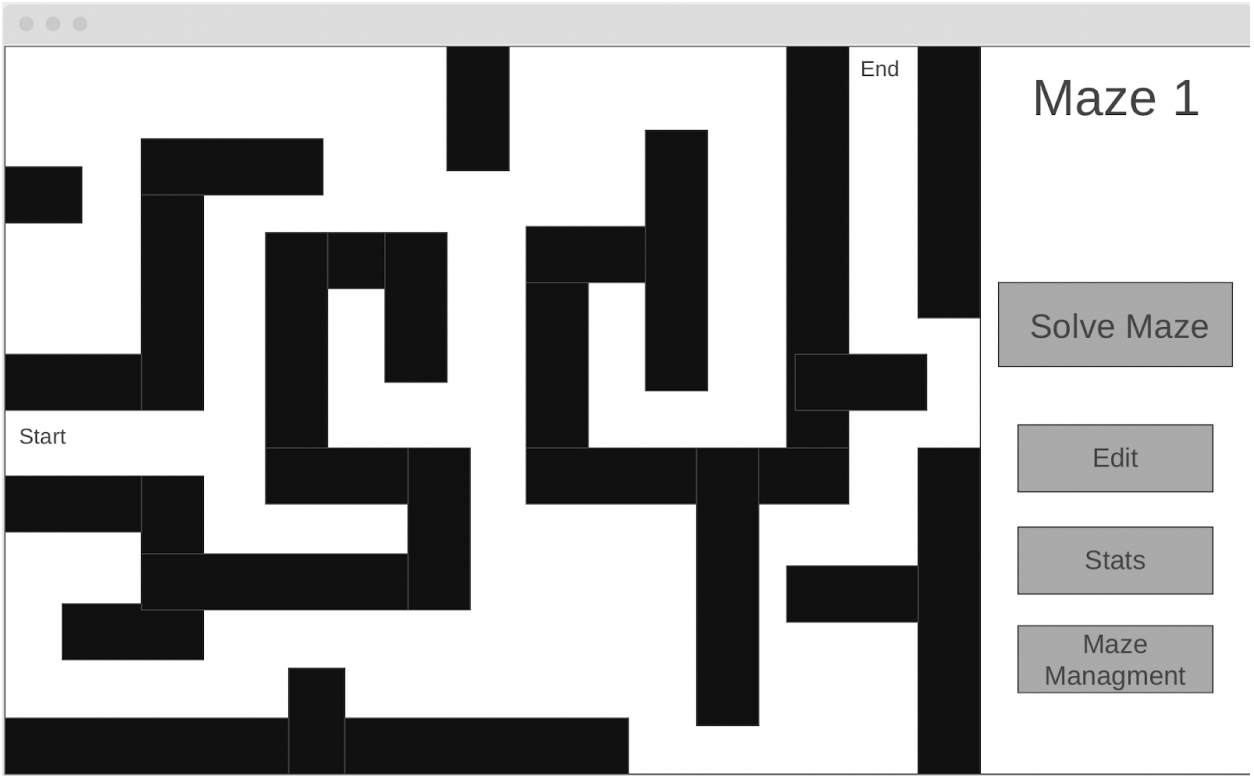
- User Stories for each feature, prioritized (most - least critical)
    - 1. Machine learning algorithm
    - 2. Maze creation
    - 3. UI display of machine learning process/info
    - 4. Save/Record completed maze
    - 5. Additional objectives

Project Plan:

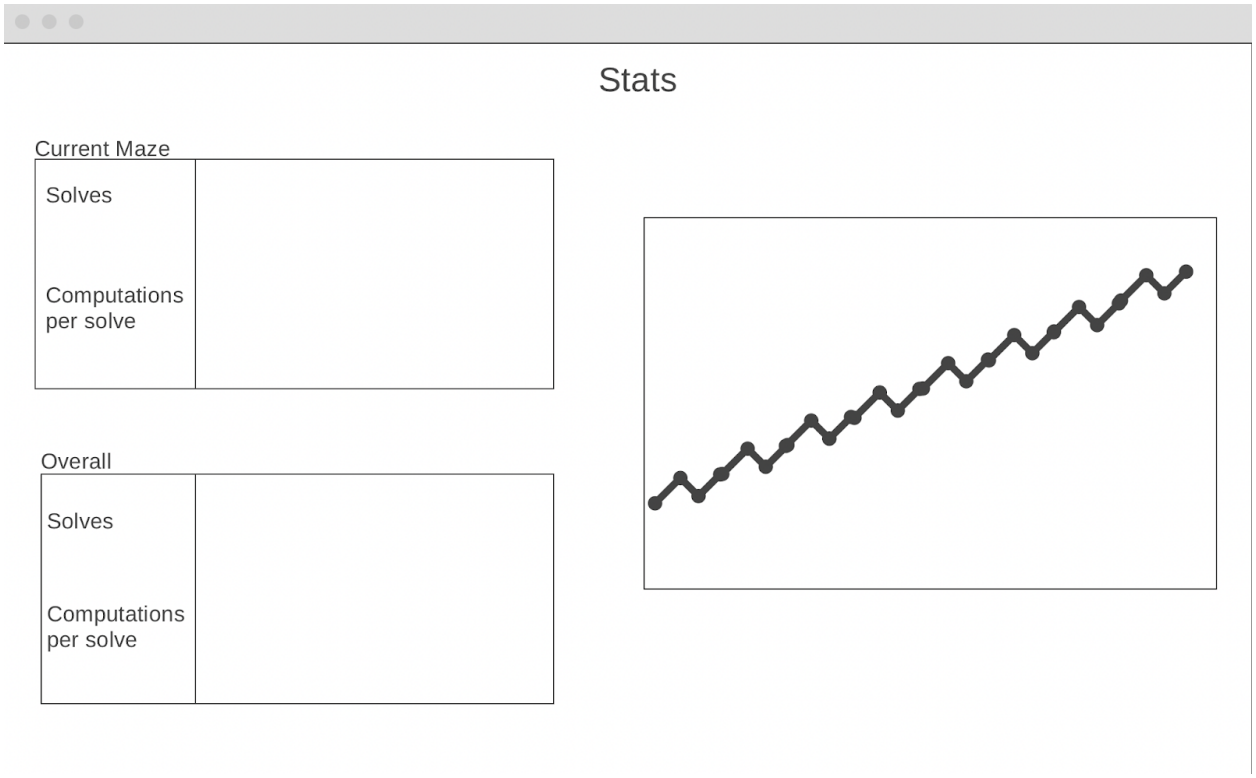
- Create Project Plan
    - Include each feature
    - Sequence of sprints
    - When feature will be worked on
    - Who is working on each feature
    - Project complete by Apr 12, 2021

Wireframes and Design:

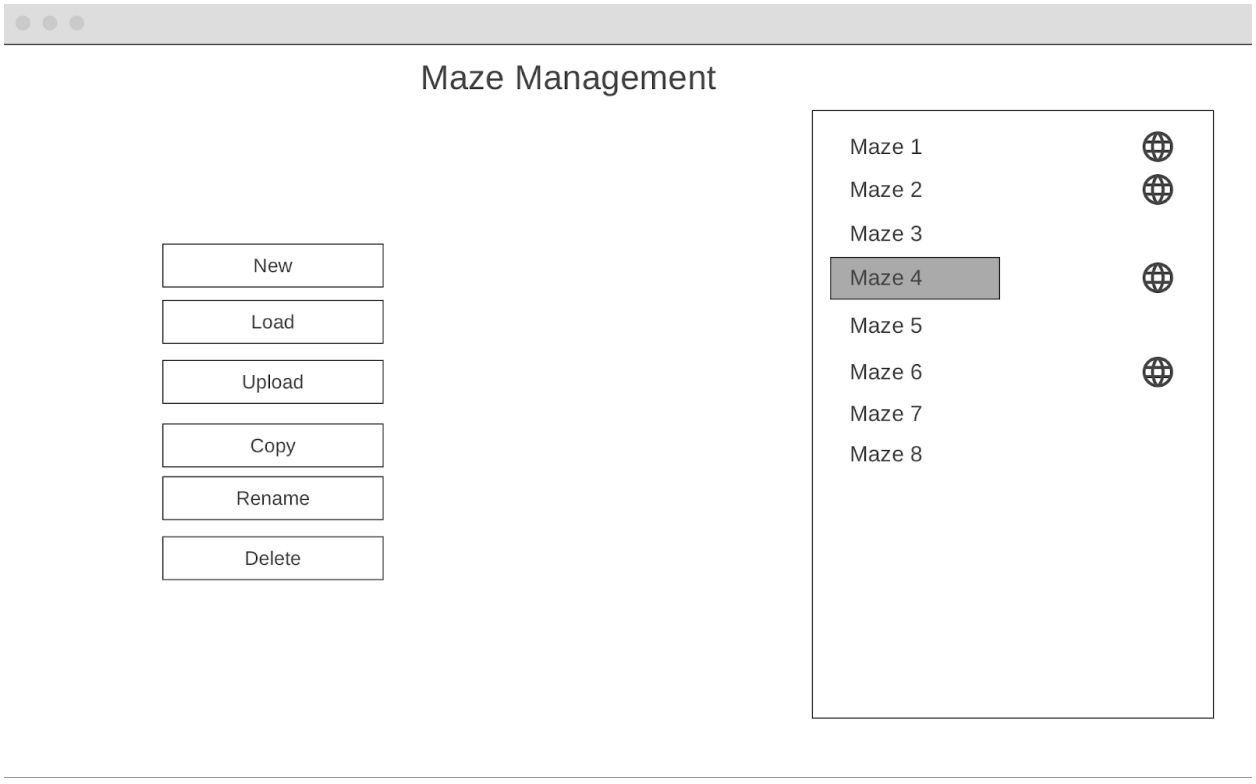
Page 1: The Maze



Page 2: Stats



Page 3: Maze Management



Individual Contributions:

- Each individuals contribution
    - Ethan: UI, Proposed initial concept for project. Has been defining goals and segments of the project in milestone documents and initial Jira user stories.
    - Surya: Proposed and designed an Architecture Diagram for the program. As well as other parts of Milestone 1.
    - Kyle: Use Case Diagrams and Wireframes
    - Tommy: Assisted in cementing product concept as well as drafting the wording for the design elements.
    - Benjamin: has been building and updating the project management board, setting up roadmap and researching backend solutions for the project
- Link to latest git commit for each individual (can be anything, wireframe pics, etc.)
    - Ethan: https://github.com/CSCI-3308-CU-Boulder/3308SP21_021_3/blob/master/TUTORIALS/GeeksForGeeksTutorialLink.txt
    - Surya: https://github.com/CSCI-3308-CU-Boulder/3308SP21_021_3/tree/master/TUTORIALS
    - Kyle: https://github.com/CSCI-3308-CU-Boulder/3308SP21_021_3/tree/master/WIREFRAMES
    - Tommy:3308SP21_021_3/Q Learning Intro at master · CSCI-3308-CU-Boulder/3308SP21_021_3 (github.com)
    - Benjamin:https://github.com/CSCI-3308-CU-Boulder/3308SP21_021_3/blob/master/MISC/tentative%20project%20plan%202-18-2021.JPG
    -
- Link to Jira board: https://csci-3308-spring21-021-3.atlassian.net/jira/software/c/projects/Y21/boards/1/roadmap