

Team Number

017-7

Team Name

The Monks

Team Members

Ryan Bishop

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Robert Carter

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Application Name

2048 - TRIS

Application Description

The main focus for this application is to provide a fun challenge for the user. 2048 and Tetris will be played simultaneously using the same key inputs. The user's goal is to play for high scores against your friends and/or complete strangers! The same key that moves your tetris block right also swipes the 2048 board right, and vice versa! This is also the same for moving left. Rotating a Tetris block swipes the board up and down! We've also added a pass move, which quick-drops your tetris block and leaves the 2048 board as is!

This is a highly valuable project due to the ingenuity of the design. How many times have you played two games side-by-side, but only using 5 keys for both? Never! And that's why we

have decided to develop this application whose existence was sorely lacking in our universe.

The value is in the fun and competitive challenge among peers and against yourself!

Vision Statement

For gamers that are looking for a new challenge who desire a new competition with peers, our product is a game that takes two well-known puzzle games and combines them into one great package where you play both simultaneously.

Version Control

<https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-017-07>

Done everything else.

Development Method

We will be using a form of agile for this project where we will create sprints that include epics and user stories. Every week we plan on having a meeting to discuss what we need to focus on within each sprint and we plan for each sprint to be about 1-2 weeks in length before hydration.

<https://csci-3308-fall21-017-7.atlassian.net/jira/software/projects/M07/boards/1>

Communication Plan

We plan on using Zoom as our main form of communication for weekly TA meetings. For our weekly group meetings we will be using a Discord server so we can also communicate outside of our meeting times. This is where we will discuss the direction of our project, progress

that has been made throughout the week, and troubleshoot any issues that we run into as we develop our application.

Meeting Plan

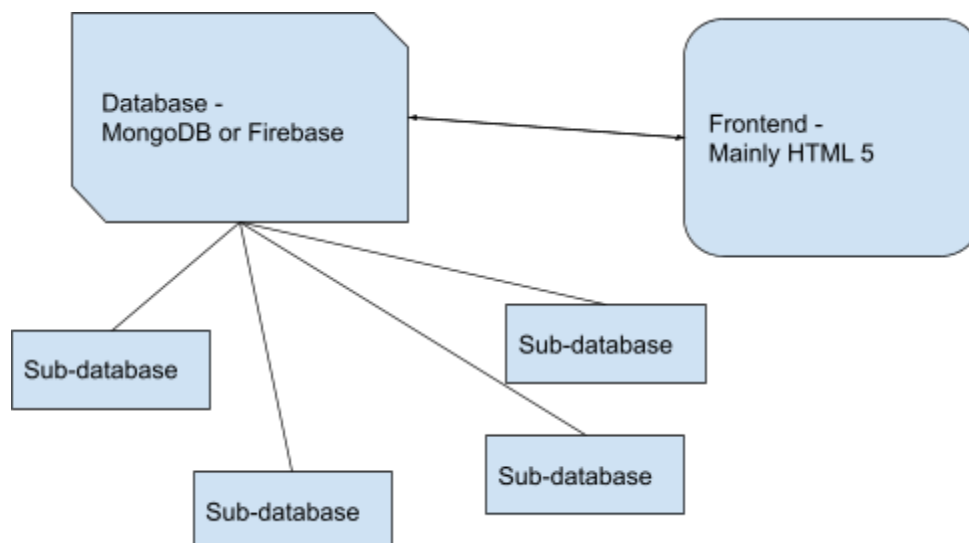
We plan to meet between 4:30pm and 6:30pm on Tuesdays using Discord.

We'll meet with our TA between 1:35pm and 1:45pm on Fridays using

<https://cuboulder.zoom.us/j/91842810266>

Proposed Architecture Plan

We're planning to use MongoDB/Firebase as our database. For our backend we're planning to use Node.js with the Express.js framework and APIs to help with building the website (all built on the primary HTML5 backend provisional material). For the front end we're planning to use the Angular framework or HTML5. The communication between frontend and backend will be done primarily by the provisional API's from the source database we choose. Our overall goal is to make a progressive web app.



Use Case Diagram

