Sprint 2 Report

Product: MAT3D
Team: Matrix Masters
Date: July 17th, 2018

Things to Stop Doing:
1. The team should all avoid being late to scrum meetings held on Mondays, Wednesdays, and Fridays. Being late to scrum meetings interrupts the meeting held and keeps some team members out-of-the-loop.

Things to Start Doing:
1. The team should have a digital Scrum Board so everyone can see task progress anytime. Being able to continuously see task progress lets the team keep track of any task completions they depend on for their own tasks.

Actions to Keep Doing:
1. The team should continue having a daily scrum at the start of the meeting. By scrumming before any activity, the team has a better idea of the project's progress and how that might affect current/future tasks.
2. The team should continue following the established coding conventions. Following these conventions keeps code neat and concise.

Work Completed/Not Completed:
Completed:
1. As a matrix calculator user, I want to be able to define matrices and apply them to 3D objects so that I can see a 3D transformation of those matrices.
   b. Be able to save matrix values as variables, possibly in a hashtable or dictionary.
   c. Getting the top bar to be fully operational.
2. As a matrix calculator user, I want to be able to toggle between the matrix calculator and 3D viewport so that I have access to both functionalities while using MAT3D.
   a. Have a button that will toggle between calculator mode and 3D mode.
   b. Display a matrix in calculator mode and the 3D viewport in 3D mode (in the same area).
3. As a matrix calculator user, I want to be able to compute matrices/scalars so that I can take advantage of mathematical expressions while interacting with the calculator.
   a. Finish implementing remaining mathematical functions
   b. Get negative numbers working with the parser.
4. As a matrix calculator developer, I want to be able to improve on the calculator UI so that there is more overall functionality for the user.

          a. Be able to display a specific matrix from the saved matrices on.
the sidebar.
          b. Be able to add/delete matrices within the sidebar.
          c. Add buttons for all of the matrix functions at the bottom of the screen.

5. As a matrix calculator developer, I want to be familiar with HTML, CSS, and Vue.js so that the whole team can help with the UI during the 3rd Sprint.
          a. Watch/Rewatch Derek Banas videos on HTML/CSS
          b. Read up on Vue.js

Incomplete:
1. As a matrix calculator user, I want to be able to define matrices and apply them to 3D objects so that I can see a 3D transformation of those matrices.
          a. Convert a math.js matrix object to an action to the 3D viewport.
2. As a matrix calculator user, I want to be able to toggle between the matrix calculator and 3D viewport so that I have access to both functionalities while using MAT3D.
          b. Display a matrix in calculator mode and the 3D viewport in 3D mode (in the same area).

Work Completion Rate:
User Stories Completed:
  3 ½ User Stories

Work Hours Completed:
92 Hours

Sprint Day Total:
7 Days

Estimated User Story Time (Numbered as Listed Above)
1. 2-3 Days
2. 10 Minutes
3. 2 ½ Days
4. 3 Days
5. 2 ½ Days