

Sprint 2 Plan

3D Matrix Calculator

Team Name: Matrix Masters

Completion Date: July 17 2018

Revision 1.0 July 11 2018

Goals:

Working further on the UI functionality, and the 3D aspects of the project, and combining all aspects of the project together and have a working demo.

User Stories:

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. **Time Estimate: 3-4 days**
- b. Be able to save matrix values as variables, possibly in a hashtable or dictionary. **Time Estimate: 2-3 days**
- c. Getting the top bar to be fully operational. **Time Estimate: 2-3 days**

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. **Time Estimate: 10 minutes**
- b. Display a matrix in calculator mode and the 3D viewport in 3D mode (in the same area).

Time Estimate: 1-2 days

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 **Time Estimate: 1-2 days**
- b. Get negative numbers working with the parser. **Time Estimate: ½ day**

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. **Time Estimate: 1-2 days**
- b. Be able to add/delete matrices within the sidebar. **Time Estimate: 1 day**
- c. Add buttons for all of the matrix functions at the bottom of the screen. **Time Estimate: 1 day**

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 **Time Estimate: ½ day**
- b. Read up on Vue.js **Time Estimate: 1-2 days**

Team Roles:

Alfredo Rivero: Developer, Product Owner, Scrum Master

Zoe Tacderas: Developer, Scrum Master
Tianyi Tang: Developer
Abraham Cardenas: Developer
Jacob Schwartz: Developer

Initial Task Assignment:

Alfredo Rivero: User Story 1, Task a
Abraham Cardenas: User Story 1, Task a
Tianyi Tang: User Story 1, Task b
Zoe Tacderas: User Story 4, Task b
Jacob Schwartz: User Story 3 ,Task a

Scrum times:

Monday, Wednesday, Friday, after 1:30pm.