

Sprint 1 Plan Template

3D Matrix Calculator

Completion Date; July 10th, 2018

Revision: 1.0 July 1st, 2018

Team Name: Matrix Masters

Goals:

Our goals include getting acquainted with github and starting the core/beginning aspects of the calculator (mathematical expression parser, webpage, 3D viewport).

User Stories:

1. As a matrix calculator developer, I want a working github repository and have everybody acquainted with Github so that we can share code more easily. **(Total time: 4 hours 20 minutes)**
 - Task 1: Everyone making a github account **Time Estimate: 20 minutes**
 - Task 2: Everyone looking at a github tutorial **Time Estimate: 4 hours**
2. As a matrix calculator user, I want a 3D viewport to be implemented so that I can view any 3d models I import into the calculator.
 - Task 1: Creating the 3D viewport **Time Estimate: 1 Day**
3. As a matrix calculator developer, I want a user input parser so that the user can provide complex matrix calculations.
 - Task 1: Develop a mathematical expression parser **Time Estimate: 4-7 days**
4. As a matrix calculator developer, I want the top bar to take user input so that the user can specify matrix calculations.
 - Task 1: Adding the top bar to the html document **Time Estimate: 1 day**
5. As a matrix calculator user, I want to be able to import/export OBJ files so that I can display the on screen. **(Total time: 1 and ½ day)**
 - Task 1: Familiarizing oneself with how three.js handles external files **Time Estimate: ½ day.**
 - Task 2: Developing the external file loader/exporter **Time Estimate: 1 day**
6. As a matrix calculator user, I want to be able to move the camera within the 3d viewport so that I can see my 3D model at different angles.
 - Task 1: Develop camera functionality within the 3D viewport **Time Estimate: 1-3 days**
7. As a matrix calculator developer, I want a matrix cell parser so that a user can define scalars such as complex numbers, trig functions within their matrices.
 - Task 1: Develop the matrix cell parser **TimeFrame: 2-3 day**
8. As a matrix calculator developer, I want a sidebar variable parser so that a user can define complex combinations of defined matrices. **TimeFrame: 2-3 days**
 - Task 1: Develop the sidebar variable parser

9. As a matrix calculator user, I want changes to any matrix to affect the other defined matrices so that my calculations can be more impactful.
 - Task 1: Develop a dependency tree for keeping track of matrix changes
Time Estimate: 2 days
10. As a matrix calculator developer, I want a sidebar so that we can put matrix variable items on that sidebar.
 - Task 1: Add a sidebar element to webapp's html code **Time Estimate: 1-2 days**

Team Roles:

Alfredo Rivero: Developer, Product Owner
Zoe Tacderas: Developer
Tianyi Tang: Developer
Abraham Cardenas: Developer
Jacob Schwartz: Developer, Scrum Master

Initial Task Assignment:

Alfredo Rivero: As a matrix calculator developer, I want a working github repository and have everybody acquainted with Github so that we can share code more easily.

Task 1: Making a GitHub account.

Zoe Tacderas: As a matrix calculator developer, I want a working github repository and have everybody acquainted with Github so that we can share code more easily.

Task 1: Making a GitHub account.

Jacob Schwartz: As a matrix calculator developer, I want a working github repository and have everybody acquainted with Github so that we can share code more easily.

Task 1: Making a GitHub account.

Tianyi Tang: As a matrix calculator developer, I want a working github repository and have everybody acquainted with Github so that we can share code more easily.

Task 1: Making a GitHub account.

Abraham Cardenas: As a matrix calculator developer, I want a working github repository and have everybody acquainted with Github so that we can share code more easily.

Task 1: Making a GitHub account.

Scrum times:

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