# Super Space Maker

#### **Totally Legit Balkans**

- Adriano Soldera
- Andrei Popescu
- Cristian Petru-Marza
- Eric Tiganasu



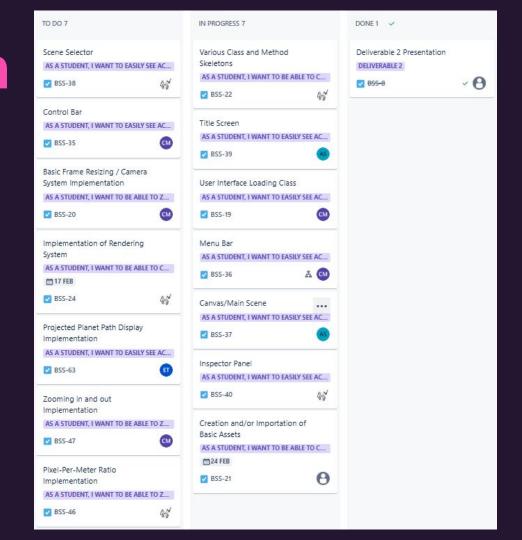
### Task Breakdown

#### User Stories

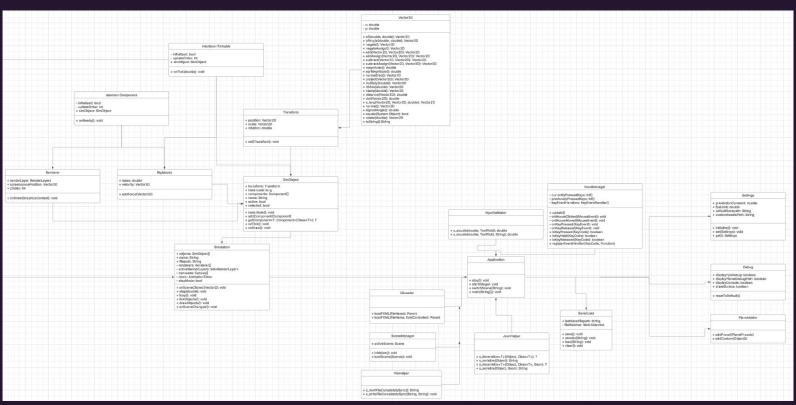
- As a student, I want to be able to customize my own planets so that I can visualize how solar systems work. (February 17 April 13)
- As a student, I want to have to option to save my simulations so that I can keep simulations that I like. (March 3 April 13)
- As a student, I want to be able to zoom in on planets so that I can see their respective data. (February 17 March 2)
  - As a student, I want to calculate various properties of different spatial bodies so I can better understand the physics involved. (March 3 March 23)

- As a student, I want to easily see accurate planetary physics so that I can better understand the physics involved. (February 17 April 13)
- As a student, I want to be able to customize the look of my animation so that I can find it more visually aesthetic. (March 24 April 13)
- As a student, I want to be able to change variables so that I can simulate different outcomes. (March 3 April 23)
- As a student, I want to be able to change the time frame of the animation so that I can see the evolution of my system over long periods of time. (March 3 March 23)

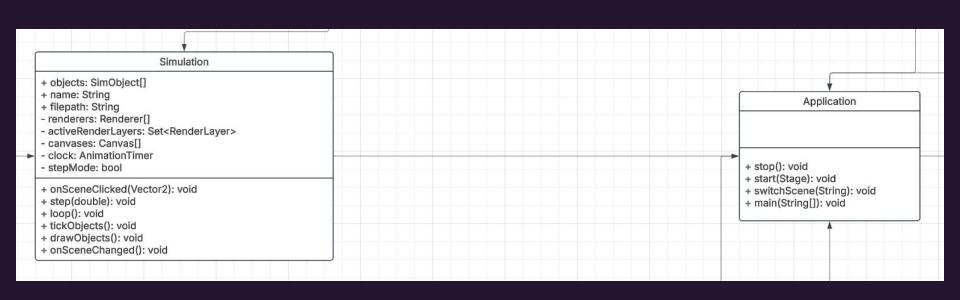
# Jira Kanban (First Sprint)



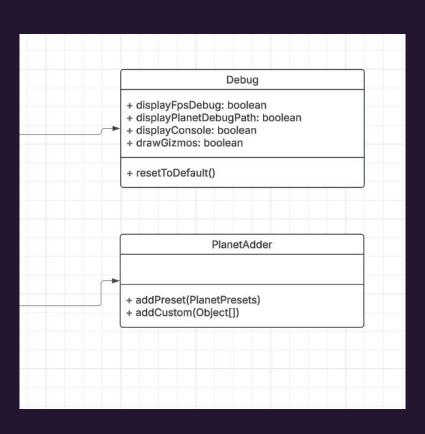
# Class Diagram



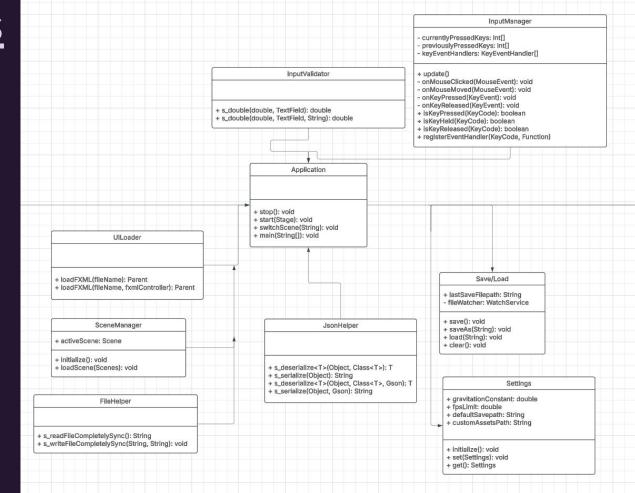
#### <u>Overview</u>



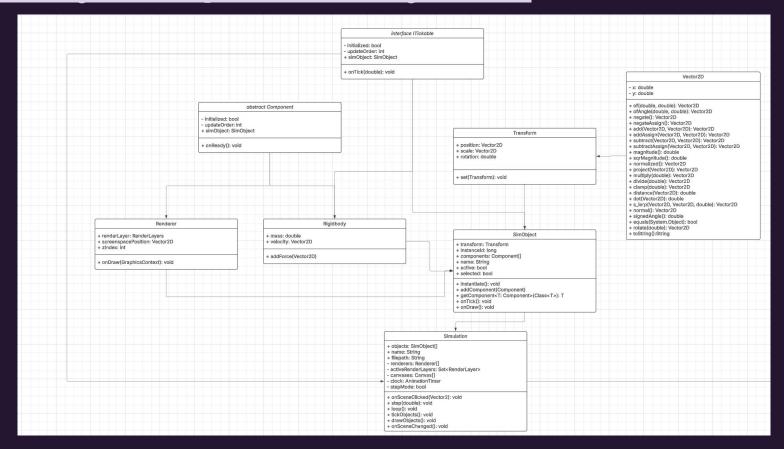
#### FXML Controllers



#### <u>Utilities</u>



#### Entity-Component-System



## Inputs and Outputs

#### <u>Inputs</u>

<u>Outputs</u>

Mouse Inputs

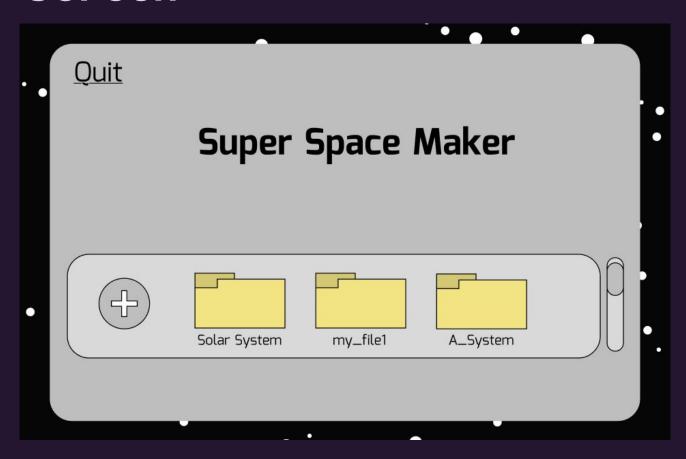
Numerical Properties of Each Astral Object

NumberValue Inputs(Keyboard)

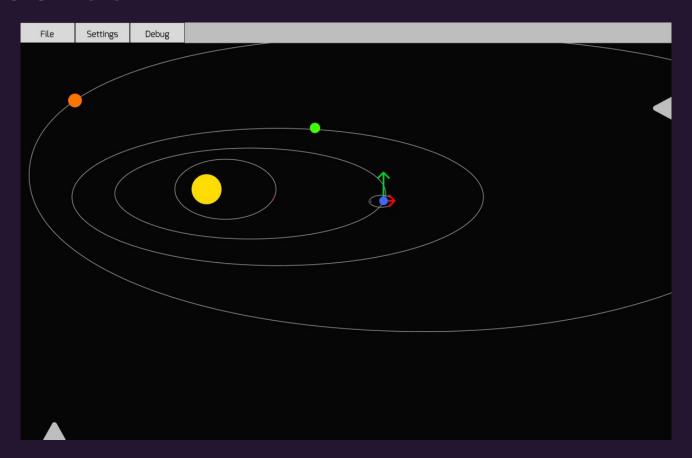
Animation of the Space System

# Wireframes

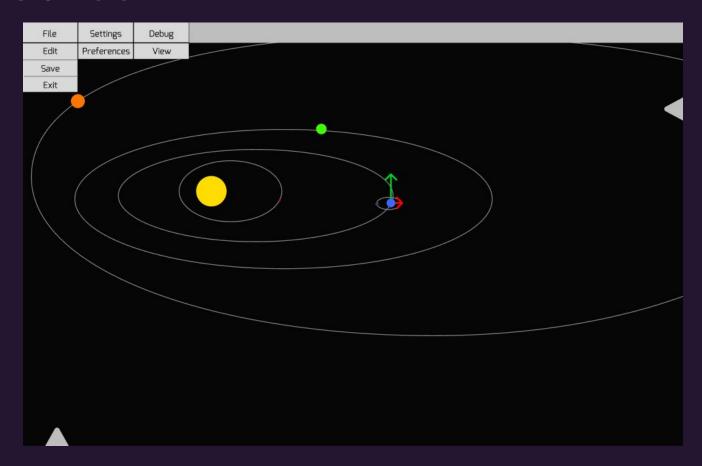
#### Title Screen



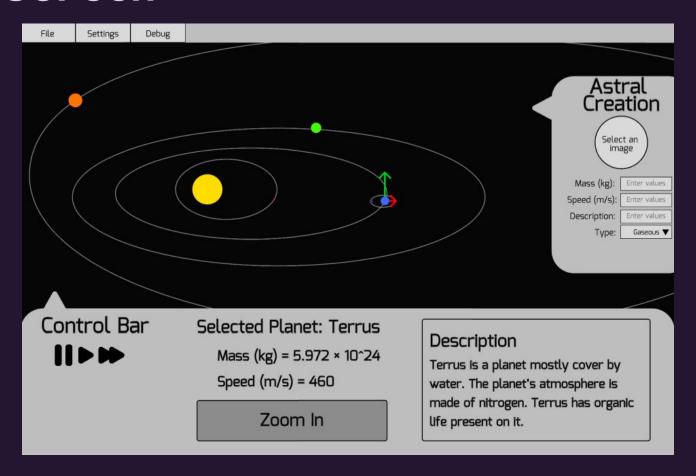
#### Main Screen



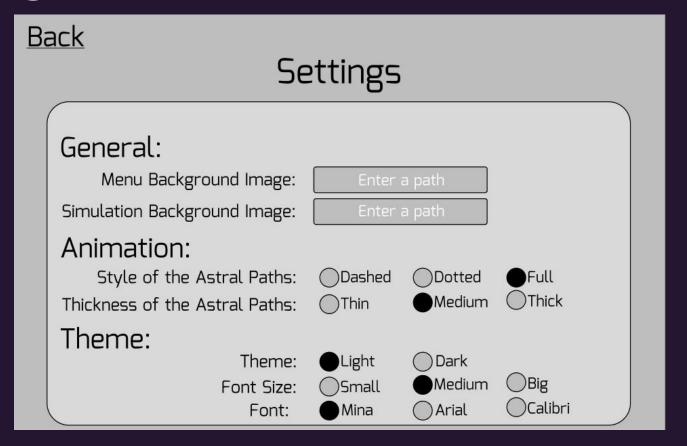
#### Main Screen



#### Main Screen



#### Settings Screen



# Stories Progress

# Stories the team starts in this sprint:

- → As a student, I want to be able to customize my own planets so that I can visualize how solar systems work.
- → As a student, I want to be able to zoom in on planets so that I can see their respective data.
- → As a student, I want to easily see accurate planetary physics so that I can better understand the physics involved.

#### Cristian's Tasks

Received Stories	Resolved Stories	Carry Over Stories	Blocked Stories
As a student, I want to be able to customize my own planets so that I can visualize how solar systems work. (7)			
As a student, I want to easily see accurate planetary physics so that I can better understand the physics involved. (5)			
As a student, I want to have to option to save my simulations so that I can keep simulations that I like. (5)			
As a student, I want to be able to customize the look of my animation so that I can find it more visually aesthetic. (11)			
As a student, I want to be able to zoom in on planets so that I can see their respective data.(15)			
As a student, I want to be able to change variables so that I can simulate different outcomes. (1)			
Total points: 44	Total points: 0	Total points: 0	Total points: 0



#### Adriano's Tasks

Received Stories	Resolved Stories	Carry Over Stories	Blocked Stories
As a student, I want to be able to customize my own planets so that I can visualize how solar systems work. (8)			
As a student, I want to have to option to save my simulations so that I can keep simulations that I like. (4)			
As a student, I want to calculate various properties of different spatial bodies so I can better understand the physics involved. (3)			
As a student, I want to easily see accurate planetary physics so that I can better understand the physics involved. (12)			
As a student, I want to be able to change variables so that I can simulate different outcomes. (1)			
As a student, I want to be able to customize the look of my animation so that I can find it more visually aesthetic. (6)			
Total points: 34	Total points: 0	Total points: 0	Total points: 0

#### Andrei's Tasks

Received Stories	Resolved Stories	Carry Over Stories	Blocked Stories
As a student, I want to be able to customize my own planets so that I can visualize how solar systems work. (20)			
As a student, I want to calculate various properties of different spatial bodies so I can better understand the physics involved. (15)			
As a student, I want to easily see accurate planetary physics so that I can better understand the physics involved. (6)			
As a student, I want to have to option to save my simulations so that I can keep simulations that I like. (1)			
As a student, I want to be able to zoom in on planets so that I can see their respective data. (1)			
Total points: 43	Total points: 0	Total points: 0	Total points: 0

#### Eric's Tasks

Received Stories	Resolved Stories	Carry Over Stories	<b>Blocked Stories</b>
As a student, I want to be able to customize my own planets so that I can visualize how solar systems work. (8)			
As a student, I want to calculate various properties of different spatial bodies so I can better understand the physics involved. (18)			
As a student, I want to have to option to save my simulations so that I can keep simulations that I like. (8)			
As a student, I want to be able to customize the look of my animation so that I can find it more visually aesthetic. (8)			
As a student, I want to be able to change the time frame of the animation so that I can see the evolution of my system over long periods of time. (2)			
As a student, I want to be able to change variables so that I can simulate different outcomes. (1)			
As a student, I want to easily see accurate planetary physics so that I can better understand the physics involved. (3)			
Total points: 48	Total points: 0	Total Points: 0	Total points: 0

# Work Cited

"10 Free Space Background Images (JPG)." *Unblast*, 2021, https://unblast.com/10-free-space-background-images-jpg/. Accessed 14 Feb. 2025.