Criterion E: Evaluation

After the development of the final product was complete, I met with my client to explain the features and how to use the program. This document outlines the success and outcome of the discussion.

Meeting the Success Criteria

Criterion Number	Criteria	Level of Success
1	GUI (simple; user-friendly)	Program indeed has simple, user-friendly GUI
2	Ability to add planets	Works as intended
3	Ability to add satellites	Works as intended
4	Ability to edit Celestial body stats	Easy to edit the information, Works as intended
5	Have options for Standard, Scientific forms and AU (Astronomical Unit) form	Program has the options, works as intended
6	Ability to start and stop the simulation	Button to start and stop the simulation works as intended
7	Ability to change camera angle	Works as intended
8	Ability to scroll in and out of the simulation to magnify the size	Works as intended
9	Ability to create asteroids	Works as intended
10	Real life and in simulation time comparison	Works as intended

Feedback from the Client

The client made sure that the default values for each planet are from reliable source, which are from Nasa website (Reliable). The client was unclear on how to add new asteroid, but after showing and explaining where to click, client had full understanding of how to do it.
There was a particular concern that the celestial bodies values were displayed in standard form, where too many 0's were shown. The client suggested to make the values displayed in other forms: Scientific form for most of the values, and Astronomical Unit form for the distance between celestial bodies. I have added a drop-down menu for the user to have 3 choices of number forms, client approved the function, and therefore the concern was dismissed.

Client pointed out that the fact that this program is in 2D helps a lot since most of the Solar system simulations client knows are 3D, and 2D ones do not have as many features and this simulation provides, making this program unique and useful.

Recommendations for Further Development

Improvements	Reason
Add Ability to change asteroid stats without refreshing the page	This will be useful as making the user be able to change color, mass, direction will be very helpful in teaching class about gravity attraction
Make the editable information field of celestial bodies save the edited/new information by pressing enter key instead of clicking left click on mouse outside of the input field	Easier to edit the planet stats, less clicking needed. More time efficient, and less confusing for new/unexperienced users
Add more languages so that the user can understand the concepts and what is the program asking you to do better	This will help students who are struggling with English to still be able to participate in class learning

Word Count: 451