

Milestone Progress Evaluation

Synthetic Data Pipeline for Pose Estimation

Members:

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Faculty advisor and Client: Dr. Ryan White (rwhite2009@fit.edu)

1. Progress of current Milestone (progress matrix)

Task	William	Nate	Stephane	Hanibal	To Do
1. Finish adding all customization to the toml file.	85%	15%	0%	0%	
2. Make camera view changeable	100%	0%	0%	0%	
3. Work on video demo	25%	25%	50%	0%	
4. Get evaluation from client team	33%	33%	33%	0%	
5. Work on user manual and developer manual	25%	25%	25%	25%	
6. Refactor code	90%	10%	0%	0%	

2. Discussion (at least a few sentences, ie a paragraph) of each accomplished task (and obstacles) for the current Milestone:

- Task 1: There were a few things in the code that were added like the earth and some star settings that were not added to the TOML configuration file. These we all added successfully and tested to be working.
 - Task 2: We added a togglable switch that allows the camera to track the satellite or not. You can change where the camera is pointing towards easier.
 - Task 3: We were able to create our short demonstration video using Davinci Resolve. We showed how to modify the configuration file and run the program. We also showed a few demos showing different features in the video. No issues occurred during this task
 - Task 4: We met with the client team and showed them the final product and asked for any feedback. Unfortunately only one team member was there but he gave some good feedback such as adding a method to create lots of variations at once.
 - Task 5: We spent a lot of time working on the user manual and developer manual. Lots of detail was to show how users can use and modify different parts of the program.
 - Task 6: We updated the code making it much more modular and easy to read and understand.
3. Discussion (at least a few sentences, ie a paragraph) of contribution of each team member to the current Milestone:
- William Stern: I did most of the changes to the code like adding the stuff to the configuration file, refactoring the code, adding the camera options, and adding a scaling factor to the planet and satellite. I also met with the client team and worked on the demo video and the documentation.
 - Nate Pichette: I worked on the video and the documentation mostly. I created much of the user manual for the documentation outlining all the different ways that the user can customize the program.
 - Stephane Baruch: I was able to create the demo video for our Student Design and Research showcase by combining footage demonstrating our software with voice overs from William and Nate explaining what's going on for each demonstration. This process was done using DaVinci Resolve.
 - Hanibal Alazar: I worked on the developer manual and the user manual.

4. Lessons learned

- Lesson 1: It is best to start early. Then if unplanned problems come up then you have time to fix those problems. If you start late then you have to try and rush at the end to fix those problems.

- Lesson 2: Communication is key. On projects like this communication is very important so that you know everyone is on the same page and working on their own part.
 - Lesson 3: Meetings are very important for tracking progress and seeing where we should be spending more time.
 - Task 4: It is better to spend a little more time making stuff like code or documentation that is well written, because if you don't then you might have to redo it which takes even more time.
 - Task 5: Try to avoid getting caught up in the details. Most of the time if you get caught up working on fixing something very small then your time would be more valuable if you moved on to something else and came back later when there was more time.
5. Date(s) of meeting(s) with Client during the current milestone:
1. 4/12/2023
6. Client feedback on the current milestone
- see Faculty Advisor Feedback below
7. Faculty Advisor feedback on each task for the current Milestone
- Task 1: He said that these options look good and that we should add a scaling factor to adjust the size of the objects.
 - Task 2: Dr. White said that this change looks good and meets the needs of the team.
 - Task 3: He said that the demo video looks really good.
 - Task 4: Unfortunately, only one member showed up to the meeting but we showed how the program worked and he gave us some good advice for things such as generating lots of variations at once.
 - Task 6: He said the new code looks good and just try to make it as easy as possible to understand how it works.

Faculty Advisor Signature: _____ Date: _____

8. Evaluation by Faculty Advisor

- Faculty Advisor: detach and return this page to Dr. Chan (HC 214) or email the scores to pkc@cs.fit.edu
- Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

William Stern	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Nate Pichette	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Stephane Baruch	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Hanibal Alazar	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

■ Faculty Advisor Signature: _____ Date: _____
