

Free Sky

*The sky is not the limit, but your
playground*

Autism Virtual Reality Project

Milestone Evaluation

Members

Gavin Smith: smithg2016@my.fit.edu

Alanah Cottingham acottingham2016@my.fit.edu

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Faculty Sponsor

Dr. Lucas Stephane
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Client name

Affiliation: The Scott Center for Autism Treatment

Task Matrix

Task	Completion %	Gavin	Alanah	Jiaqi	What's left
Requirements Document with Scott Center for each aspect	100%	33.3%	33.3%	33.3%	Continue to Adjust but the deadline met
Continue to work on the application of Database	100%	33.3%	33.3%	33.3%	Adjustments need to be made once more content is added to the application
Create a final proof of concept by connecting all the components Database animation and video	85%	28.3%	28.3%	28.3%	Fix errors found in the program that preventing it to load on the oculus
Host a test run with the Scott center to see how they like the proof of concept	0%	0%	0%	0%	Have to schedule meeting with Scott center

Discussion of each Milestone

Requirements Document with Scott Center for each aspect

After our last meeting with the Scott Center during our last milestone, there has been no updates to the requirements document. We were provided with an edited video for the proof of concept. We were also provided questions and timestamps for when they want the questions to appear in the video.

Continue to work on the application of Database

So after working on the database using firebase we realized that this wouldn't work. After meeting with our advisor we created a mind mapping diagram to find all the pros and cons of the possible solutions. After extensive research we found facebook query language which seemed like the most likely solution. The runner up solution is oculus Desktop which provides us a virtual desktop and which we can use to store text files on the oculus however this option cost more.

Create a final proof of concept by connecting all the components Database, animation, and video

While trying to finish the proof of concept we ran into a lot of problems. One of the largest problems was trying to place the application onto the Oculus Go. Several videos were found aiding in the process. Once all the necessary features were downloaded into Unity we tried to test the application on the Oculus Go. Unfortunately we had some errors in our application causing it not show in the Oculus. We did try a test application to see if we were loading applications onto the Oculus correctly. Luckily the test application worked so that narrows down where the problem is.

Host a test run with the Scott center to see how they like the proof of concept

With all the setbacks that we had with the application we have been unable to do a test run with Scott Center. We have made sure that we have all the items that they requested in the application. Our next goal is to get it properly running on the Oculus Go, and to contact the

Scott Center to test the product.

Create a trainee side connected to database

The features in the trainee video are completed to its entirety for the initial proof of concept. The features were adding a question and answer choices and placing a vr camera into the application.

Discussion for each member contribution

Alanah

During this milestone, Alanah found video aids to figure out how to use Unity and the Oculus Go together. She also found a way to create a pointer to be used with the Gear VR remote. She will be implementing that feature later. Alanah also made sure all the necessary SDK's were downloaded in order for application to be placed on the Oculus.

Jiaqi

For this milestone, Jiaqi began designing a question and answer box for the application. Once completed, an example was shown to Boyd Mark from the Scott Center. She also placed the question and answers into the video on the application and placed buttons on them.

Gavin Smith

For this milestone, Gavin worked on finding a backup database for long term use. He made charts comparing different databases to Firebase to see which one would be more compatible with our application. He also helped Alanah with trying to place the application on the Oculus Go. Since a Samsung device was needed for the process, he provided his phone for the test.

Task Matrix for next Deadline

Task	Gavin	Alanah	Jiaqi
Requirements Document with Scott Center for each aspect	Responsible for creating and testing with Firebase	Review and give Adjustment	Review and give Adjustment
Continue to work on the application of Database	Work on the database component	Work of gaining all resources for testing	Working on coding the platform for the testing
Create a trainee platform	Review and give adjustment	Work on implementing features	Work on the design of the platform
Create a trainer platform	Review and give adjustment	Work on the design of the platform	Work on implementing features
Connect Database to new feature	Work on connecting the database	Test the trainer features	Test the trainee features

Date(s) of meeting(s) with Client

November 4th 2019

**Date(s) of meeting(s) with Faculty Sponsor during the
current milestone: ...**

November 25 2019

Sponsor feedback on each task for the current Milestone

Notes

Please focus on the edited video and related questions, as well as on the database.

Faculty Sponsor Signature: _____ Date: _____