EE / CprE / SE 491 – sddec18-12

360 Webcams for Zoos and Aquariums

Week 08 Report: 2018.03.11 - 2018.03.24

General Information

Client: True 360 (Christopher James)

Faculty Advisor: Dr. Henry Duwe

Team Members:

Name	Primary Role	Secondary Role(s)
Nathan Cool	Front-End Engineer	Project Manager, Webmaster
Zach Newton	Front-End Engineer	Scrum Master, QA
Ian Jamieson	Back-End Engineer	Graphics Lead
Alan Negrete	Back-End/Database Engineer	Scribe, QA
Tarek (TJ) Yacoub	Embedded Engineer	Communication Lead, QA
Hosam (Sam) Abdeltawab	Embedded Engineer	Software Architect

Weekly Summary

This report covers both the week of spring break and the week after. For the most part, our team focused on revising our project plan (Version 2.0.0). We also continued working on developing the individual components for our project prototype.

Past Week Accomplishments

Nathan: Over the past two weeks, I collaborated with the rest of the team in order to revise our project plan for the v2 submission. I also continued looking into React and Redux.

Zach: Helped revise the project plan a bit. Laid out the front-end roadmap for the next 2 weeks.

Ian: Worked on the middleware authentication with Firebase. Also researched Firebase API.

Alan: Did not do anything technical. However I mapped out all the issues for the rest of this semester on GitLab. I also created Boards to represent "Sprints" from our timeline. Then filled out the issues with correct information.

TJ: It appears that Ricoh does not provide drivers for linux. Therefore, we are looking at two alternative solutions. Using the Raspberry Pi as an access point to ingest the video stream, or buying a board that is windows 10 compatible.

Sam: Looking at different solutions for the driver problems for Raspberry Pi.

Recent Group/Client/Advisor Meetings

Note: Our team did not meet during the week of spring break.

Date, Time, Location	Participants	Details
2018.03.19, 13:15 - 14:45, Atanasoff 223	Group	General team meeting; discussed any progress made over spring break.
2018.03.22, 15:30 - 16:30, Coover 3138	Group	General team meeting focused on addressing technical issues and planning for our upcoming assignment deadlines.

Pending Issues

Nathan: No issues this week.

Zach: Find best, most secure way to block off views with React + Firebase.

Ian: No issues this week.

Alan: No issues this week.

TJ: Embedded is past the deliverable due dates.

Sam: Trying to solve the linux driver issues.

Individual Contributions

Name	Individual Contributions	Hours This Week	Total Hours
Nathan Cool		7	80
Zach Newton		6	60
Ian Jamieson	SEE PAST WEEK ACCOMPLISHMENTS	7	67
Alan Negrete		7	64

Tarek (TJ) Yacoub		6	66
Hosam (Sam) Abdeltawab		6	65

Upcoming Plans

Nathan: Continue (in coordination with Zach) to develop the front end views for our web application using React and Redux.

Zach: Implement the planned front-end structure for with regards to routing and user permissions.

Ian: Continue work on middleware authentication for backend.

Alan: Continue updating the Back End routes & organizing GitLab. Will also start working on the CI/CD tools on GitLab.

TJ: Test the stream quality over WIFI using the Raspberry Pi.

Sam: Connect the Raspberry Pi to a wifi and turning the Pi into a Wifi access point to connect to the camera wirelessly.