EE / CprE / SE 491 – sddec18-12

360 Webcams for Zoos and Aquariums

Week 07 Report: 2018.03.04 - 2018.03.10

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

Over the past week, our sub-teams continued working on implementing our respective components. We collaborated in order to resolve the various issues that came up, as well as make some plans for the coming weeks (including any spring break plans). Additionally, we showed our client a brief demonstration of the technical progress we have made thus far in order to receive some feedback.

Past Week Accomplishments

Nathan: Worked with Zach to create a mock video viewer demo (UI + server), as well as continued learning React + Redux.

Zach:
- Create Mock video hosting server for front-end sandboxing
- Create Archive video viewer demo

Ian: Worked on getting backend code working on my personal machine.

Alan: Researched Firebase Admin.

TJ: Attempted to fix the driver issues of the RICOH THETA V on linux.

Sam: Worked on fixing the detection problem with the Raspberry Pi.

Recent Group/Client/Advisor Meetings

Date, Time, Location	Participants	Details
2018.03.05, 13:15 - 14:45, Atanasoff 223	Group	General meeting + technical discussion
2018.03.06, 14:00 - 16:00, Coover 1012	Group	General meeting + technical discussion during CPRE 491 work period (due to cancelled class)
2018.03.08, 15:30 - 16:30, Coover 3138	Group + Client	General meeting + demo of current technical progress + spring break plan discussion

Pending Issues

Nathan: Need to determine our next steps with respect to the UI component.

Zach:
- Add more useful (unit) tests to client side of app
- Write a script or program to build & deploy server+client to hosting service (e.g. Heroku)
- Figure out what's what to follow archive video viewer demo with. What does the client want to see next?

Ian: Still can't get the backend software components working on my computer.

Alan: Working on backend Documentation. Still having some issues with authentication.

TJ: Ricoh does not seem to have drivers for the THETA V on linux. In result, streaming from the Raspberry Pi has not been successful.

Sam:
- Still a minor problem when streaming through the Raspberry Pi.
- Another problem is waiting for the camera to be available in order to work on it since we have only one camera.

Individual Contributions

Name	Individual	Hours This Week	Total Hours

	Contributions		
Nathan Cool		6	73
Zach Newton		10	54
Ian Jamieson	SEE PAST WEEK ACCOMPLISHMENTS	10	60
Alan Negrete		5	57
Tarek (TJ) Yacoub		5	60
Hosam (Sam) Abdeltawab		7	58

Upcoming Plans

Nathan: I will take some time to explore React and Redux in order to continue working with Zach on front-end development. When we come back from spring break, we need to start working significantly more on front-end code in order to mesh things together with embedded and server-side code.

Zach:
- Write unit tests for all (current) reusable components in client app

Ian: Helping Alan with backend software and attempting to get the different components to work on my machine.

Alan: Finish up the documentation & add routes for create/updates of all models.

TJ: I have submitted a question on the RICOH developer forums to get a definite answer on whether we will be able to stream from a linux based machine.

Sam:
- In addition to the Ricoh Theta V, setup a webcam and test our current code progress on it in order to speed up our process rather than all the team working with one camera.