EE / CprE / SE 492 – sddec18-12

360 Webcams for Zoos and Aquariums

Week 01 - 03 Report: 2018.08.20 - 2018.09.10

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	Data 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

The first few weeks of the semester consisted of working out our meeting schedule, analyzing the current state of our project, gathering any updates from our client and advisor, and continuing where we left off on project development.

Past Week Accomplishments

Nathan: Reviewed current project state (codebase, GitLab issues, documentation). Created a Sketch project for incremental UI/UX feature design to improve/streamline front-end development.

Zach: Cleaned up codebase. Moved from custom components to Zendesk Garden components.

Ian: Worked on preliminary codebase for machine learning aspect of project. Began developing a solution and researching specifics.

Alan: Set up AWS database to use for everyone to develop. Updated backend to es6, reworked our front-end redux flow.

TJ: Design a pipeline for live streams using AWS MediaServices, which will enable us to provide professional grade live video to multiple output devices using one live input feed. I was able to use MediaLive and MediaPackage to stream to youtube and a custom CDN simultaneously.

Sam:
- Reviewed current project state
- Researched AWS extra services to ensure full compatibility with project
- Familiarize oneself with AWS CLI

Recent Group/Client/Advisor Meetings

Date, Time, Location	Participants	Details
2018.08.28, 15:00 - 16:00, Parks Library 306F	Team, Advisor	Initial meeting, regrouping after summer
2018.08.31, 10:00 - 11:00, Parks Library 306F	Team	Project current-state analysis
2018.09.04, 15:00 - 16:00, Parks Library 306F	Team, Advisor	Continued current-state analysis
2018.09.07, 15:00 - 16:00, Parks Library 306F	Team	First-steps planning

Pending Issues

Nathan: Still need to connect (in-person) with our client to receive any feedback (in addition to what was provided in start-of-semester email communications).

Zach: Continue to clean up frontend code and improve app flow.

Ian: Still trying to resolve a few requirement issues for the machine learning aspect of the project.

Alan: Add in repositories for hooking up to the backend & collecting data.

TJ: N/A

Sam: Meet with TJ to make sure we are on the same page on the project

Individual Contributions

Name	Individual Contributions	Hours This Week	Total Hours
Nathan Cool	SEE PAST WEEK ACCOMPLISHMENTS	15	15

Zach Newton		18	18
Ian Jamieson		14	14
Alan Negrete		16	16
Tarek (TJ) Yacoub		20	20
Hosam (Sam) Abdeltawab		13	13

Upcoming Plans

Nathan: Develop a first-version UI/UX prototype for the application and collaborate with Zach/Alan to implement front-end features. Additionally, work on project documentation (website, design document version 2).

Zach: Improve app routing flow. Move frontend code to true360/frontend repository.

Ian: Continue work on machine learning and hopefully have requirements figured out.

Alan: Continue expanding on frontend code to hook up with backend.

TJ: Try out The MediaService Tailor to add logos and ads to live streams

Sam: Need to talk to TJ to set up plans for moving forward