

EE/CprE/SE 491 WEEKLY REPORT WEEK 12

April 1, - April 7

Group Number: 14
Project Title: IoT Passive Monitoring of Assisted Living Homes
Client: Andrew Guillemette, Optical Operations
Advisor: Goce Trajcevski
Team Members/Role:

Trevor Henderson	--	Test Engineer
Nick Schneider	--	Meeting Scribe
Austin Kerr	--	Chief Engineer
Austin Sudtelgte	--	Chief Engineer
Ryan McCullough	--	Meeting Facilitator
Josh Blanck	--	Report Manager

Weekly Summary

Met as a team Monday. Meeting focused on reviewing the progress during the workday. Met with advisor and client on Monday. Meeting focused on preparing for the presentation: main points: focus on being succinct, ensure the project is in a presentable state, and focus on the flow of the presentation. Gave lightning talk on Tuesday. Met as a team Friday. Meeting focused on determining handling user login/authorization for our application.

Past week accomplishments

All: Delivered lightning talk. Decided to push cross-platform application to next semester.

Decided on an authentication mechanism: a random number generated and displayed on the local server node; the user enters this into the app to verify and link ownership.

Trevor Henderson: Established the REST points for Uses and Residents. Working towards REST endpoints for sensors and big data analytics for next semester.

Nick Schneider: Transcribed meeting notes. Worked on organizing work for design document and completed a significant start of the next draft.

Austin Kerr: Finished all of the base views for the app and set up each page to handle incoming data from the server. The request calls are set up after discussing with Nick the best way to handle the data responses. Mock endpoints are set up to display how data will be received from the server.

Austin Sudtelgte: Fixed ongoing issues with sensor and HTTP server communication and finished setting up HTTP server

Ryan McCullough: Worked on Http server, set up tests for local server to cloud server communication.

Josh Blanck: Read through resulting code/data from the workday. Reviewed presentation notes from Goce. Setup Android Studio IDE.

Pending issues

All: Issues communicating via HTTP from sensor Pi to local node Pi.

Nick Schneider: Need to workout app login using server authentication

Ryan McCullough:

Individual contributions

Name	Individual Contributions	Hours this week	Hours Total
Trevor Henderson	See past week accomplishments.	10	46.5
Nick Schneider		6.5	44
Austin Kerr		10	46
Austin Sudtelgte		8.5	47
Ryan McCullough		7	43
Josh Blanck		7	39.5

Plan for coming week

Trevor Henderson: Complete endpoints for sensors and local host

Nick Schneider: Ensure the design document's next draft is completed. Workout app login authentication. Start working on presentation.

Austin Kerr: Test endpoints with in the app and finalize the type of data being passed from the sensors to the server and from the server to the app. Work on project plan and final presentation.

Austin Sudtelgte: Fix minor issues with sensors sending data, get flowmeter to send data. Start data collection

Ryan McCullough: Work on the project documentation and complete testing of local server to cloud server communication

Josh Blanck: Begin revising Project Plan, Design Document. Create a skeleton presentation. Aid in troubleshooting when necessary.