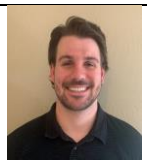
Weekly Team Task Report

Report #13

Team: Team PiWatcher	**Date:** 1/26/2021
Project Title: Automated IoT People Counting Infrastructure	

	**Brigham** Present On-time		**Champ** Present On-time		**Joshua** Present On-time		**Seth** Present On-time		**Brandon** Present On-time

Recent Meetings:

- **1/20/2021 – Weekly Team Meeting:** Task creation and task followup. Discussed different solutions in preparation for meeting with client.
- **1/21/2021 – Weekly Client Meeting:** Had discussions about different implementations that team has came up with. Setup an Ubuntu workstation and showed us how to get access to it. Looking into the CAS situation and will followup within the next week.
- **1/25/2021 – Weekly Team Meeting:** Task followup, created and groomed new stories for this week.

TASKS COMPLETED since last meeting:

Task Title: PCI-Prototype-Backend: Dockerize Flask Backend	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/26/2021	**Status:** Complete – 1/21/2021 (100%)
Who (%): Champ (100%)			
Description: Create a docker container with the WSGI service.			
Expected Outcome: Backend service runs through the docker container and works as intended. Pull request is reviewed and accepted.			

Task Title: SD-Doc: Create Cover Page	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/26/2021	**Status:** Completed – 1/25/2021 (100%)
Who (%): Brandon (100%)			
Description: Create cover page that includes document title, team name and logo, team members, team sponsor, and team mentor, date, and document version			
Expected Outcome: Cover page is added onto the document. The page is reveiwed by Josh and Seth.			

Task Title: SD-Doc: Create Table of Contents	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/26/2021	**Status:** Completed – 1/25/2021 (100%)
Who (%): Brandon (100%)			
Description: Create a page that displays the contents of the document along with the page number of each section.			
Expected Outcome: Table of contents is created and added onto the draft. The page is reveiwed by both Seth and Josh.			

Task Title: SD-Doc: Draft Introduction page	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/26/2021	**Status:** Completed – 1/25/2021 (100%)
Who (%): Brigs (100%)			
Description: Create a page that provides a small introduction to the problem and what we will be delivering and how it solves the problem. It should provide an introduction/background on the client and business area along with brief overview of requirements.			
Expected Outcome: Introduction page is added and is reviewed by Josh, Seth, and Brandon.			

Task Title: SD-Doc: Draft high-level architectural diagram of system	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/26/2021	**Status:** Completed – 1/25/2021 (100%)
Who (%): Josh (100%)			
Description: Create high-level architectural diagram of system			
Expected Outcome: Diagram of the high-level architectural system is added and reviewed by Josh, Seth, and Brandon.			

Task Title: SD-Doc: Draft Implementation Plan	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/26/2021	**Status:** Completed - 1/23/2021 (100%)
Who (%): Champ (100%)			
Description: Provide a big picture of the project that also mentions the key tools that are going to be used.			
Expected Outcome: Implementation plan page is added and is reviewed by Josh, Seth, and Brandon.			

Task Title: SD-Doc: Draft Conclusion page	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/31/2021	**Status:** In Progress (16%)
Who (%): Brandon (100%)			
Description: Reference the big picture of the project and summarize main points and how it contributes to the bigger picture			
Expected Outcome: Conclusion plan page is added and is reviewed by Josh, Seth, and Brandon.			

Task Title: Team-Website: Add Brandon to team website	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/26/2021	**Status:** Complete – 1/25/2021 (100%)
Who (%): Seth (100%)			
Description: Add picture of Brandon to the team website			
Expected Outcome: Pull request is created, reviewed, and accepted. Changes are deployed onto the NAU server.			

Task Title: Team-Website: Update Gantt chart on Resources page	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/26/2021	**Status:** Complete – 1/25/2021 (100%)
Who (%): Seth (100%)			
Description: Add Gantt chart onto team website			
Expected Outcome: Pull request is created, reviewed, and accepted. Changes are deployed onto the NAU server.			

Task Title: PCI-Prototype-IoT: Investigate single image processing solution	**Task Initiation:** 1/21/2021	**Orig. Due Date:** 1/25/2021	**Status:** Complete – 1/25/2021 (100%)
Who (%): Seth (50%), Brigs (50%)			
Description: Setup Raspberry Pi and install the needed operating system. Investigate different solution options and work on creating a working demo			
Expected Outcome: Raspberry Pi is setup and operating system is installed. Working demo is created and ready to be pushed.			

This week's Tasks: Work plan for coming week

Task Title: PCI-Prototype-Pi: Setup Jetson Nano & Get Demo Running	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/19/2021	**Status:** In Progress (80%) – Late (Waiting on hardware from Duane)
Who (%): Josh (100%)			
Description: Install Jetson Nano Operating system and attempt to get a working demo and gather some statistics for performance.			
Expected Outcome: Jetson Nano OS is installed and provide feedback on the performance of the demo.			

Task Title: SPIKE: Figure out how to get CAS login screen with Duane	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/19/2021	**Status:** In Progress (20%) – Late (Waiting on status from Duane)
Who (%): Brigs (50%), Brandon (50%)			
Description: Work with Duane and ITS to figure how CAS can be implemented and gather the required resources.			
Expected Outcome: Gathered necessary documentation needed to get CAS implemented			

Task Title: PCI-Prototype-Backend: Research WSGI/Reverse proxy	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/19/2021	**Status:** In Progress (50%) – Late (Waiting on status from Duane)
Who (%): Champ (50%), Brandon (50%)			
Description: Research different WSGI servers that will be compatible with CAS login.			
Expected Outcome: WSGI and reverse proxy service is determined and comptabile with CAS login			

Task Title: SD-Doc: Draft Implementation Overview	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/31/2021	**Status:** In Progress (0%)
Who (%): Josh (100%)			
Description: Discuss the product we are building to solve client's problem and introduce the approach we are taking. Mention tools and techniques we will be using.			
Expected Outcome: Implementation overview page is added and is reviewed by Josh, Seth, and Brandon.			

Task Title: SD-Doc: Draft interface description for Web App Frontend	**Task Initiation:** 1/25/2021	**Orig. Due Date:** 1/31/2021	**Status:** In Progress (0%)
Who (%): Brigs (50%), Seth (50%)			
Description: Provide natural-language description of the responsibilities of the frontend component. Describe how the frontend components interact with each other to produce the needed results.			
Expected Outcome: Interface description for Web App Frontend is completed. The interface description is added onto the Software Design document. The page is reviewed by Brandon, Josh, and/or Seth.			

Task Title: SD-Doc: Draft interface description for Web App Backend	**Task Initiation:** 1/25/2021	**Orig. Due Date:** 1/31/2021	**Status:** In Progress (0%)
Who (%): Champ (50%), Brandon (50%)			
Description: Provide natural-language description of the responsibilities of the backend component. Describe how the frontend components interact with each other to produce the needed results.			
Expected Outcome: Interface description for Web App Backend is completed. The interface description is added onto the Software Design document. The page is reviewed by Brandon, Josh, and/or Seth.			

Task Title: SD-Doc: Draft interface description for IoT device	**Task Initiation:** 1/25/2021	**Orig. Due Date:** 1/31/2021	**Status:** In Progress (0%)
Who (%): Josh (50%), Brandon (50%)			
Description: Provide natural-language description of the responsibilities of the IoT component. Describe how the frontend components interact with each other to produce the needed results.			
Expected Outcome: Interface description for IoT device is completed. The interface description is added onto the Software Design document. The page is reviewed by Brandon, Josh, and/or Seth.			

Task Title: SD-Doc: Draft architectural overview	**Task Initiation:** 1/25/2021	**Orig. Due Date:** 1/31/2021	**Status:** In Progress (0%)
Who (%): Josh (50%), Brandon (50%)			
Description: Explain each section of the architectural diagram and tie in how it all works overall.			
Expected Outcome: Architectural overview is created and onto the Software Design Document. The page is reviewed by Brandon, Josh, and/or Seth.			

Task Title: SD-Doc: Draft UML Diagrams for Web App Frontend	**Task Initiation:** 1/25/2021	**Orig. Due Date:** 1/31/2021	**Status:** In Progress (0%)
Who (%): Brigs (50%), Seth (50%)			
Description: Create UML diagram that describes the modules that go into developing the Web App Frontend.			
Expected Outcome: UML diagram is created and onto the Software Design Document. The page is reviewed by Brandon, Josh, and/or Seth.			

Task Title: SD-Doc: Draft UML Diagrams for Web App Backend	**Task Initiation:** 1/25/2021	**Orig. Due Date:** 1/31/2021	**Status:** In Progress (0%)
Who (%): Brandon (50%), Champ (50%)			
Description: Create UML diagram that describes the modules that go into developing the Web App Backend.			
Expected Outcome: UML diagram is created and onto the Software Design Document. The page is reviewed by Brandon, Josh, and/or Seth.			

Task Title: SD-Doc: Draft UML Diagrams for IoT device	**Task Initiation:** 1/25/2021	**Orig. Due Date:** 1/31/2021	**Status:** In Progress (0%)
Who (%): Brandon (50%), Champ (50%)			
Description: Create UML diagram that describes the modules that go into developing the IoT device.			
Expected Outcome: UML diagram is created and onto the Software Design Document. The page is reviewed by Brandon, Josh, and/or Seth.			

Task Title: PCI-Prototype-IoT: Analyze saved images	**Task Initiation:** 1/25/2021	**Orig. Due Date:** 2/1/2021	**Status:** In Progress (0%)
Who (%): Brigs (50%), Champ (50%)			
Description: Take saved images and feed them into model. Get results from the model displayed on the screen.			
Expected Outcome: Able to analyze saved images and get results displayed. Pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-IoT: Implement image capture and saving	**Task Initiation:** 1/25/2021	**Orig. Due Date:** 2/1/2021	**Status:** In Progress (0%)
Who (%): Brigs (33.3%), Josh (33.3%), Seth (33.3%)			
Description: Research and find a different model that analyzes only people. Determine here is a model needs to be trained.			
Expected Outcome: Determined if a model needs to be trained and/or found a different model that analyzes only people. Pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Frontend: Condense contexts and implement a reducer	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/26/2021	**Status:** In Progress (0%) – Late (Josh sick, reassigned to work on IoT)
Who (%): Seth (100%)			
Description: Condense down the multiple contexts and implement a reducer to streamline code base			
Expected Outcome: Pull request is created, reviewed, and accepted.			

Upcoming Tasks: Planning

Task Title: Integrate CAS into front end	**Who (%):** Brigham (50%), Seth (50%)	**Rough Due Date:** 2/2/2021
Description: Integrate CAS as the login page for the front end application		

Task Title: Connect IoT device and Backend	**Who (%):** Champ (33%), Josh (33%), Brandon (33%)	**Rough Due Date:** 2/2/2021
Description: Connect IoT device and Backend together and ensure data flows appropriately.		

Other Problems / Other Issues:

- No problems or issues so far.