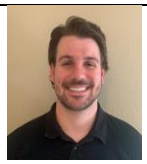
Weekly Team Task Report

Report #15

Team: Team PiWatcher	**Date:** 2/9/2021
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:

- **2/3/2021 – Weekly Team Meeting:** Task creation and task followup. Entire team got together to work on the image recognition and coutning module.
- **2/4/2021 – Client Meeting:** Talked to Duane about the progress that we have made this week. Readjusted requirements to account for Login Authentication Service that needs to be made now.
- **2/5/2021 – Team Work Meeting:** Pair programming session. Entire team worked on their tasks for the week.
- **2/8/2021 – Weekly Team Meeting:** Task creation and task followup. Assigned tasks for the week and closed stories that are waiting for review.

TASKS COMPLETED since last meeting:

Task Title: PCI-Prototype-IoT: Setup Jetson Nano & Get Demo Running	**Task Initiation:** 1/13/2021	**Orig. Due Date:** 1/19/2021	**Status:** Complete (100%) – Late (Picked up hardware from Duane 2/2/2021)
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: PCI-Prototype-Backend: Setup password based endpoint authentication	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** Complete (100%) – 2/8/2021
Who (%): Champ (100%)			
Description: Utilize Flask-HTTPAuth to protect endpoints utilizing password based authentication. Ensure that the PCI REST API still works as intended.			
Expected Outcome: REST Endpoints are secured with password based authentication. Pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Backend: Setup flask configuration handling	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** Complete (100%) – 2/8/2021
Who (%): Champ (100%)			
Description: Create configuration that sets up a development, testing, and production environment. Update README.md, Dockerfile, etc. if necessary. Once configuration is setup, ensure that PCI REST API still works as intended.			
Expected Outcome: Flask configuration handling is setup. Pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Backend: Service folder structure reorganization	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** Complete (100%) – 2/8/2021
Who (%): Champ (100%)			
Description: Restructure services folder to follow UML diagram.			
Expected Outcome: Services folder is restructured. Pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-IoT: Test different models and collect metrics	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** Complete (100%) – 2/4/2021
Who (%): Seth (25%), Brigs (25%), Josh (25%), Champ (25%)			
Description: Find other models and test those models on our useable demo. Gather and collect metrics on the performance of certain models.			
Expected Outcome: Metrics were collected on models and direction for the device is determined. Pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Frontend: Implement a dummy login page	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** Complete (100%) – 2/5/2021
Who (%): Seth (100%)			
Description: Create login page components and structure CSS. Setup router to dashboard from login.			
Expected Outcome: Login page components and structured CSS is connected. Router is setup and routes user to application dashboard upon login. Pull request is created, reviewed, and accepted.			

Task Title: SPIKE: Determine feasibility of restructuring codebase	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** Complete (100%) – 2/5/2021
Who (%): Seth (33.3%), Brigs (33.3%), Josh (33.3%)			
Description: Revisit demo in IoT repository and discuss feasibility of current code base. Determine is Josh's version of the code base and determine if we should pivot to that or use current solution. Create new stories for reworking codebase			
Expected Outcome: Feasibility is determined and new stories are created on the Kanban board.			

Task Title: PCI-Prototype-IoT: Setup scheduler for IoT Device	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** Complete (100%)
Who (%): Josh (100%)			
Description: Create scheduler file and add scheduling functionality with the image capture and sending data to the backend.			
Expected Outcome: Scheduler functionality is implemented and works as intended. Pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-IoT: Connect IoT device to Web Backend	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** Complete (100%) – 2/8/2021
Who (%): Brigs (50%), Brandon (50%)			
Description: IoT device sends updated counts through REST endpoint and ensure that the data is inside the database.			
Expected Outcome: IoT device is able to communicate with the backend and update the database. Pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Frontend: Implement a map for building search and selection	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** Complete (100%) – 2/8/2021
Who (%): Seth (100%)			
Description: Obtain coordinates for all NAU buildings and implement a map for building selection. Ensure that the selection is connected to the overall context.			
Expected Outcome: Coordinates are obtained and are mapped for building selection. Pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Backend: Gather building names	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** Complete (100%) – 2/8/2021
Who (%): Champ (100%)			
Description: Add fucntionality to MongoDB Manager Service (MMS) to gather a list of building names that the system has entries for.			
Expected Outcome: Buildings that have entries are returned. Pull request is created, reviewed, and accepted.			

This week's Tasks: Work plan for coming week

Task Title: PCI-Prototype-Backend: Setup and configure MongoDB	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** In Progress (57%) – Late (Issues with setting up Docker container)
Who (%): Brandon (100%)			
Description: Setup and configure MongoDB with Flask such that the information is stored on our local machine instead.			
Expected Outcome: MongoDB is setup and configured locally and the pull request is created, reviewed, and accepted.			

Task Title: SD-Doc: Revise document with team mentor changes	**Task Initiation:** 2/1/2021	**Orig. Due Date:** 2/8/2021	**Status:** In Progress (66.6%) – Late (Waiting for Review)
Who (%): Brandon (100%)			
Description: Go over recommended changes by the team mentor and revise issues with the document.			
Expected Outcome: Document is revised and reviewed by Josh, Seth, and Brandon.			

Task Title: PiWatcher-Docs: Complete Peer Evals	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/9/2021	**Status:** In Progress (50%)
Who (%): Brigs (20%), Brandon (20%), Champ (20%), Josh (20%), Seth (20%)			
Description: Each team member must fill out and send their peer evaluations to team mentor.			
Expected Outcome: All peer evaluations are sent.			

Task Title: SPIKE: Figure out any other changes for Software Design Document	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Brandon (100%)			
Description: Read through the document and determine areas of improvement for the Software Design Document.			
Expected Outcome: Changes are determined and the appropriate tasks are created			

Task Title: PCI-Prototype-Frontend: Connect registration/login page to backend	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Seth (100%)			
Description: Implement user registration tab on login page. Send user login information to backend for authorization / account creation. Implement functionality on auth success and auth failure.			
Expected Outcome: Above description is implemented and a pull request is created, reviewed, and accepted.			

Task Title: SPIKE: Figure out tasks needed to complete Design Review II	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Brandon (100%)			
Description: Figure out what tasks need to be created to complete Design Review II.			
Expected Outcome: Tasks are figured out for next week's grooming session.			

Task Title: PCI-Prototype-IoT: Setup dynamic base url	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Brigs (100%)			
Description: Write code for dynamically changing the base URL depending on if the environment is in development or in production.			
Expected Outcome: Above description is implemented and a pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Frontend: Setup dynamic base url	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Brandon (100%)			
Description: Write code for dynamically changing the base URL depending on if the environment is in development or in production.			
Expected Outcome: Above description is implemented and a pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Backend: Setup dynamic base url	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Champ (100%)			
Description: Write code for dynamically changing the base URL depending on if the environment is in development or in production.			
Expected Outcome: Above description is implemented and a pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-IoT: Setup scheduling module	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Josh (100%)			
Description: Create python file for scheduling module. Classes/Functions are stubbed out.			
Expected Outcome: Above description is implemented and a pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-IoT: Add functionality to scheduling module	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Josh (100%)			
Description: Functionality for scheduling module is implemented and is tested.			
Expected Outcome: Above description is implemented and a pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Backend: Setup JSON structure for REST API	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Brandon (20%), Brigs (20%), Champ (20%), Josh (20%), Seth (20%)			
Description: Determine JSON structure that will be stored in the database. Determine JSON structure that will be pulled from the database. Implement new JSON structure.			
Expected Outcome: Above description is implemented and a pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-IoT: Setup JSON structure for REST API	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Brandon (20%), Brigs (20%), Champ (20%), Josh (20%), Seth (20%)			
Description: Determine JSON structure that will be sent to the backend. Implement new JSON structure			
Expected Outcome: Above description is implemented and a pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-IoT: Purge unnecessary functionality from template code base	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Brigs (100%)			
Description: Remove unused files and delete unnecessary code. Ensure that the Analysis still works.			
Expected Outcome: Above description is implemented and a pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Backend: Create functionality for user registration	**Task Initiation:** 2/8/2021	**Orig. Due Date:** 2/14/2021	**Status:** In Progress (0%)
Who (%): Champ (50%), Seth (50%)			
Description: Create new endpoint(s) for user registration. Setup functions needed for Login Authentication Service. Add necessary functions for adding user into database. Setup resources to pull user data from databaser and verify password. Ensure that HTTPBasicAuth still works.			
Expected Outcome: Above description is implemented and a pull request is created, reviewed, and accepted.			

Upcoming Tasks: Planning

Task Title: Design Review Presentation II	**Who (%):** Champ (20%), Seth (20%), Brandon (20%), Josh (20%), Brigs (20%)	**Rough Due Date:** 2/26/2021
Description: Start creating design review draft presentation		

Other Problems / Other Issues:

- No problems or issues so far.