Weekly Team Task Report

Team:	Team PiWatcher	**Date:** 3/9/2021
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:

- **3/3/2021 – Weekly Work Meeting:** Discussed deployment plan for the web application and IoT device. Drafted client questions in regards for deploying our software on the IoT device and position of the camera.

- **3/4/2021 – Client Meeting:** Asked client questions about deployment and showed the web application running on the production server.

- **3/5/2021 – Weekly Work Meeting:** Reviewed other teams Design Review II and provided feedback to their respective team leaders. Talked about goals that need to be achieved by Monday.

- **3/8/2021 – Weekly Team Meeting:** Went over feedback from Design Review II presentation. Went over Full Prototype Tech Demo flight plan and created/groomed new tasks for the week.

TASKS COMPLETED since last meeting:

Task Title: PCI-Prototype-IoT: Figure out backend docker container IP address	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
Who (%): Josh (100%)			
Description: Find out what the container ip address is for the backend docker deployment. Determine if this is the correct docker container ip address.			
Expected Outcome: Above description is completed.			

Task Title: PCI-Prototype-Frontend: Setup Docker container for front end	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
Who (%): Seth (100%)			
Description: Dockerize Nginx and host the front end within an Nginx container.			
Expected Outcome: Above description is completed. Pull request is created, reviewed, and accepted.			

Task Title: SPIKE: Determine the best course of action for testing frontend	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
Who (%): Brandon (100%)			
Description: Determine the way to test functionality on the front end.			
Expected Outcome: Above description is completed.			

Task Title: PCI-Prototype-Frontend: Determine demonstration for flight plan	Task Initiation: 3/1/2021	Orig. Due Date: 3/8/2021	Status: Complete (100%)
Who (%): Seth (100%)			
Description: Title and describe the different use cases. Write a detailed walkthrough of each use case and list challenges not covered in the demo. If applicable, list plans to implement challenges not mentioned.			
Expected Outcome: Above description is completed.			

Task Title: PCI-Prototype-Backend: Determine demonstration for flight plan	Task Initiation: 3/1/2021	Orig. Due Date: 3/8/2021	Status: Complete (100%)
Who (%): Champ (100%)			
Description: Title and describe the different use cases. Write a detailed walkthrough of each use case and list challenges not covered in the demo. If applicable, list plans to implement challenges not mentioned.			
Expected Outcome: Above description is completed.			

Task Title: PCI-Prototype-IoT: Determine demonstration for flight plan	Task Initiation: 3/1/2021	Orig. Due Date: 3/8/2021	Status: Complete (100%)
Who (%): Josh (100%)			
Description: Title and describe the different use cases. Write a detailed walkthrough of each use case and list challenges not covered in the demo. If applicable, list plans to implement challenges not mentioned.			
Expected Outcome: Above description is completed.			

Task Title: PCI-Prototype-IoT: Figure out deployment plan for IoT devices	Task Initiation: 3/1/2021	Orig. Due Date: 3/8/2021	Status: Complete (100%)

Who (%): Josh (100%)

Description: Figure out what is needed to deploy to Pi in IoT device. Get necessary information from Duane on how to connect to the Pi. If possible, test the connection to the Pi.

Expected Outcome: Above description is completed and email is sent to Duane.

Task Title: PiWatcher-Docs: Review LostExpress DR	Task Initiation: 3/1/2021	Orig. Due Date: 3/5/2021	Status: Complete (100%)

Who (%): Brandon (25%), Champ (25%), Joshua (25%), Seth (25%)

Description: Watch team's video and grade the presentation content, presentation delivery, and complete the review document.

Expected Outcome: Above description is completed. Document is filled out and saved as PDF. Document is emailed to team leader of reviewed team and emailed to team mentor.

Task Title: PiWatcher-Docs: Review SmartTalk DR	Task Initiation: 3/1/2021	Orig. Due Date: 3/5/2021	Status: Complete (100%)

Who (%): Brandon (25%), Champ (25%), Joshua (25%), Seth (25%)

Description: Watch team's video and grade the presentation content, presentation delivery, and complete the review document.

Expected Outcome: Above description is completed. Document is filled out and saved as PDF. Document is emailed to team leader of reviewed team and emailed to team mentor.

Task Title: PCI-Prototype-IoT: Deploy into IoT Lab	Task Initiation: 3/1/2021	Orig. Due Date: 3/8/2021	Status: Complete (100%)

Who (%): Josh (100%)

Description: Ensure that necessary dependencies are installed onto the Raspberry Pi. Test is ran to ensure codebase works as intended. Ensure connectivity with backend is working.

Expected Outcome: Above description is completed. IoT Raspberry Pi is deployed.

Task Title: PCI-Prototype-Backend: Deploy into IoT Lab	Task Initiation: 3/1/2021	Orig. Due Date: 3/3/2021	Status: Complete (100%)

Who (%): Champ (50%), Seth (50%)

Description: Create docker-compose.prod.yml that will be utilized in the production environment. Transfer backend application into a production environment. Build application with the dockerized environment. Ensure that the backend works as intended.

Expected Outcome: Above description is completed. Deployment is made and works as intended.

Task Title: PCI-Prototype-Frontend: Deploy into IoT Lab	Task Initiation: 3/1/2021	Orig. Due Date: 3/3/2021	Status: Complete (100%)

Who (%): Champ (50%), Seth (50%)

Description: Create docker-compose.prod.yml that will be utilized in the production environment. Transfer backend application into a production environment. Build application with the dockerized environment. Ensure that the backend works as intended.

Expected Outcome: Above description is completed. Deployment is made and works as intended.

Task Title: PCI-Prototype-Frontend: Reconfigure data context for updated JSON structure	Task Initiation: 3/1/2021	Orig. Due Date: 3/3/2021	Status: Complete (100%)
Who (%): Seth (100%)			
Description: Change GET to POST requests. Update endpoint URLs to new variation and implement ability to pull data on an interval. Correctly pull data and update all components at appropriate timing.			
Expected Outcome: Above description is completed. Pull request is created, reviewed, and accepted.			

This week's Tasks: Work plan for coming week

Task Title: PiWatcher-Docs: Peer Evaluation #2	Task Initiation: 3/8/2021	Orig. Due Date: 3/12/2021	Status: In Progress (0%)
Who (%): Brandon (20%), Brigs (20%), Champ (20%), Josh (20%), Seth (20%)			
Description: Each team member finishes and submits their peer evaluations to the team mentor.			
Expected Outcome: Above description is completed. Pull request is created, reviewed, and accepted.			

Task Title: PiWatcher-Docs: Write Introduction for Software Testing Document	Task Initiation: 3/8/2021	Orig. Due Date: 3/12/2021	Status: In Progress (0%)
Who (%): Brigs (100%)			
Description: Write introduction that follows assignment guidelines and specifications.			
Expected Outcome: Above description is completed. The section is added onto the google document and flows well with the rest of the paper			

Task Title: PiWatcher-Docs: Unit Testing for IoT	Task Initiation: 3/8/2021	Orig. Due Date: 3/15/2021	Status: In Progress (0%)
Who (%): Josh (100%)			
Description: Write about the libraries and tools that will be used to test the IoT device. Go over test related metrics and present a detailed plan for testing the IoT device.			
Expected Outcome: Above description is completed. The section is added onto the google document and flows well with the rest of the paper			

Task Title: PiWatcher-Docs: Unit Testing for Frontend	Task Initiation: 3/8/2021	Orig. Due Date: 3/15/2021	Status: In Progress (0%)
Who (%): Seth (100%)			
Description: Write about the libraries and tools that will be used to test the frontend device. Go over test related metrics and present a detailed plan for testing the frontend device.			
Expected Outcome: Above description is completed. The section is added onto the google document and flows well with the rest of the paper			

Task Title: PiWatcher-Docs: Unit Testing for Backend	Task Initiation: 3/8/2021	Orig. Due Date: 3/15/2021	Status: In Progress (0%)
Who (%): Champ (100%)			
Description: Write about the libraries and tools that will be used to test the backend device. Go over test related metrics and present a detailed plan for testing the backend device.			
Expected Outcome: Above description is completed. The section is added onto the google document and flows well with the rest of the paper			

Task Title: PiWatcher-Docs: Integration Testing for IoT	**Task Initiation:** 3/8/2021	**Orig. Due** **Date:** 3/15/2021	**Status:** In Progress (0%)
Who (%): Josh (100%)			
Description: Present integration testing plan for the IoT plan. Explain how each test will be performed and how to ensure that the data will be correct.			
Expected Outcome: Above description is completed. The section is added onto the google document and flows well with the rest of the paper			

Task Title: PiWatcher-Docs: Integration Testing for Backend	**Task Initiation:** 3/8/2021	**Orig. Due** **Date:** 3/15/2021	**Status:** In Progress (0%)
Who (%): Brigs (100%)			
Description: Present integration testing plan for the Backend plan. Explain how each test will be performed and how to ensure that the data will be correct.			
Expected Outcome: Above description is completed. The section is added onto the google document and flows well with the rest of the paper			

Task Title: PiWatcher-Docs: Integration Testing for Frontend	**Task Initiation:** 3/8/2021	**Orig. Due** **Date:** 3/15/2021	**Status:** In Progress (0%)
Who (%): Brandon (100%)			
Description: Present integration testing plan for the Frontend plan. Explain how each test will be performed and how to ensure that the data will be correct.			
Expected Outcome: Above description is completed. The section is added onto the google document and flows well with the rest of the paper			

Task Title: PiWatcher-Docs: Usability Testing for Frontend	**Task Initiation:** 3/8/2021	**Orig. Due** **Date:** 3/15/2021	**Status:** In Progress (0%)
Who (%): Brandon (100%)			
Description: Present a usability testing plan and dicuss testing goals for the frontend. Explain the steps in the detailed plan on discuss how the plan with be executed.			
Expected Outcome: Above description is completed. The section is added onto the google document and flows well with the rest of the paper			

Task Title: PiWatcher-Docs: Usability Testing for IoT	**Task Initiation:** 3/8/2021	**Orig. Due** **Date:** 3/15/2021	**Status:** In Progress (0%)
Who (%): Brandon (100%)			
Description: Present a usability testing plan and dicuss testing goals for the backend. Explain the steps in the detailed plan on discuss how the plan with be executed.			
Expected Outcome: Above description is completed. The section is added onto the google document and flows well with the rest of the paper			

Task Title: PiWatcher-Docs: Usability Testing for Backend	**Task Initiation:** 3/8/2021	**Orig. Due** **Date:** 3/15/2021	**Status:** In Progress (0%)
Who (%): Brigs (100%)			
Description: Present a usability testing plan and dicuss testing goals for the backend. Explain the steps in the detailed plan on discuss how the plan with be executed.			
Expected Outcome: Above description is completed. The section is added onto the google document and flows well with the rest of the paper			

Task Title: PCI-Prototype-IoT: Branch clean up	Task Initiation: 3/8/2021	Orig. Due Date: 3/15/2021	Status: In Progress (0%)
Who (%): Josh (100%)			
Description: Clean up the branches on the GitHub repository to make it more maintanable.			
Expected Outcome: Above description is completed.			

Task Title: PCI-Prototype-Backend: Determine design for querying date ranges	Task Initiation: 3/8/2021	Orig. Due Date: 3/15/2021	Status: In Progress (0%)
Who (%): Champ (50%), Seth (50%)			
Description: Create UML diagram for designing/restructuring the communication flow for querying MongoDB. Create and groom tasks that are needed for the frontend/backend/IoT to sufficiently query the database			
Expected Outcome: Above description is completed. UML diagram is uploaded onto the PiWatcher-Docs on GitHub and the new tasks that are needed are created and groomed.			

Task Title: PCI-Prototype-Backend: Determine design for token based authentication	Task Initiation: 3/8/2021	Orig. Due Date: 3/15/2021	Status: In Progress (0%)
Who (%): Champ (33%), Josh (33%), Seth (33%)			
Description: Research how token-based authentication would work utilizing JSON Web Tokens (JWT). Create UML Diagram that details how to secure connections to the backend/frontend. Determine what tasks are needed for setting up token-based authentication for both the frontend/backend/IoT.			
Expected Outcome: Above description is completed. UML diagram is uploaded onto the PiWatcher-Docs on GitHub and the new tasks that are needed are created and groomed.			

Task Title: PCI-Prototype-Backend: Create design for Role Management System	Task Initiation: 3/8/2021	Orig. Due Date: 3/15/2021	Status: In Progress (0%)
Who (%): Champ (50%), Seth (50%)			
Description: Create UML diagram and flow structure for how role management would work with the system. Determine the differences between admin/normal users and how that would work. Create and groom tasks that are needed to complete the Role Management System.			
Expected Outcome: Above description is completed. UML diagram is uploaded onto the PiWatcher-Docs on GitHub and the new tasks that are needed are created and groomed.			

Task Title: PCI-Prototype-Frontend: Figure out SSL encryption within the Nginx docker container	Task Initiation: 3/8/2021	Orig. Due Date: 3/15/2021	Status: In Progress (0%)
Who (%): Champ (50%), Seth (50%)			
Description: Discuss with Duane about SSL encryption. Create tasks needed for implement SSL (if needed).			
Expected Outcome: Above description is completed.			

Task Title: SPIKE: Determine tasks for Design Review III	Task Initiation: 3/8/2021	Orig. Due Date: 3/15/2021	Status: In Progress (0%)
Who (%): Brandon (100%)			
Description: Determine tasks needed to complete Design Review III. Create and groom the tasks needed to complete DR3.			
Expected Outcome: Above description is completed. New tasks that are needed are created and put in the backlog.			

Upcoming Tasks: Planning

Task Title: Milestone IV: Software Testing & Product Finanlization	Who (%): Champ (20%), Seth (20%), Brandon (20%), Josh (20%), Brigs (20%)	Rough Due Date: 4/23/2021
Description: Write software modules needed to complete the capstone project.		

Task Title: Capstone Presentation	Who (%): Champ (20%), Seth (20%), Brandon (20%), Josh (20%), Brigs (20%)	Rough Due Date: 4/26/2021
Description: Write capstone presentation for UGRADS.		

Other Problems / Other Issues:

- No problems or issues so far.