






Weekly Team Task Report

Report
#18

Team: Team PiWatcher					Date: 3/2/2021				
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:

- **2/24/2021 – Weekly Work Meeting:** Worked on assigned tasks as a team. Worked on prototype etc.
- **2/26/2021 – Weekly Work Meeting:** Worked on assigned tasks as a team. Focused on finishing up abstract, signing up for UGRADS, and finalizing UGRADS.
- **3/1/2021 – Weekly Team Meeting:** Team retrospective where we discussed things that went well, didn't do well, and needs improvement in the past month. Followed up on tasks and created new tasks. Focused on establishing tasks for the week.

TASKS COMPLETED since last meeting:

Task Title: PCI-Prototype-IoT: Setup dynamic base url	Task Initiation: 2/8/2021	Orig. Due Date: 2/14/2021	Status: In Progress (0%) – Late
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: PiWatcher-Docs: Sign up for UGRADS	Task Initiation: 2/15/2021	Orig. Due Date: 2/22/2021	Status: Complete (100%)
Who (%): Champ (100%)			
Description: Complete the registration process for UGRADS. Add team members as collaborators of the application			
Expected Outcome: Above description is implemented.			

Task Title: PiWatcher-Docs: Write Project Abstract for UGRADS	Task Initiation: 2/15/2021	Orig. Due Date: 2/22/2021	Status: Complete (100%)
Who (%): Brigs (100%)			
Description: Write 250-word max project abstract.			
Expected Outcome: Above description is implemented and is reviewed by the entire team.			

Task Title: DR-II: Edit Video	Task Initiation: 2/15/2021	Orig. Due Date: 2/21/2021	Status: Complete (100%)
Who (%): Brigs (100%)			
Description: Take recorded videos and edit them into a video			
Expected Outcome: Edited video is created and it is uploaded to YouTube.			

Task Title: SPIKE: Determine the tasks needed for completing technical demo	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-Backend: Restructure endpoint for querying counts	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
Who (%): Champ (100%)			
Description: Restructure document insertion for MongoManagerService to follow the new updated way of inserting data into the database. Check that changes are reflected in the MongoDB database. Restructure building search endpoint to follow the new structure in MongoDB and ensure that the application still works as intended.			
Expected Outcome: Above description is completed. Pull request is created, reviewed, and accepted.			

Task Title: PCI-Prototype-Backend: Setup REST API user	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
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Who (%): Champ (100%)

Description: Create a new user in the MongoDB database. Setup Flask configuration to use the new user in the MongoDB database. Ensure that the application still works as intended.

Expected Outcome: Above description is completed. Pull request is created, reviewed, and accepted.

Task Title: PCI-Prototype-IoT: Collect metrics between Pi3 vs Pi4	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
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Who (%): Josh (100%)

Description: Determine what metrics need to be recorded. Collect these metrics on the Pi3 versus the Pi4 to determine what is the best hardware to go with.

Expected Outcome: Above description is completed.

Task Title: PCI-Prototype-Backend: Setup system for creating mock data	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
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Who (%): Champ (100%)

Description: Determine how the system will be executed. Create a module for setting up mocked data. Load MongoDB database with room counts and data. Ensure that the data is stored in MongoDB and that the application still works as intended.

Expected Outcome: Above description is completed. Pull request is created, reviewed, and accepted.

Task Title: PCI-Prototype-Frontend: Styling and page formatting (Dashboard)	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
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Who (%): Seth (100%)

Description: Pull and display user name. Implement styling language and add text passing for data. Correct spacing on desktop and on mobile.

Expected Outcome: Above description is completed. Pull request is created, reviewed, and accepted.

Task Title: PCI-Prototype-Frontend: Styling and page formatting (login)	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
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Who (%): Seth (100%)

Description: Add fade effect on form when auth type is changed. Correct the spacing for both desktop and mobile.

Expected Outcome: Above description is completed. Pull request is created, reviewed, and accepted.

Task Title: SPIKE: Determine the best course of action for testing IoT device	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
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Who (%): Josh (100%)

Description: Determine the way to test functionality on the IoT device.

Expected Outcome: Above description is completed.

Task Title: PCI-Prototype-Frontend: Add dummy buttons to the dashboard graph for data start/end selection	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: Complete (100%)
Who (%): Seth (100%)			
Description: Create dummy buttons with styling. Correct spacing on desktop and on mobile.			
Expected Outcome: Above description is completed. Pull request is created, reviewed, and accepted.			

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

This week's Tasks: Work plan for coming week

Task Title: PCI-Prototype-Frontend: Setup dynamic base url	Task Initiation: 2/8/2021	Orig. Due Date: 2/14/2021	Status: Complete (100%)
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-IoT: Figure out backend docker container IP address	Task Initiation: 2/22/2021	Orig. Due Date: 3/1/2021	Status: In Progress (0%)
Who (%): Brigs (33%), Brandon (33%), Josh (33%)			
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: In Progress (0%) – Late
Who (%): Brigs (33%), Brandon (33%), Josh (33%)			
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: In Progress (0%)
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: In Progress (0%)
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: In Progress (0%)
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: In Progress (0%)
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: In Progress (33%)
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: In Progress (0%)
Who (%): Brandon (20%), Briggs (20%), Champ (20%), Joshua (20%), Seth (20%)			
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: In Progress (0%)
Who (%): Brandon (20%), Briggs (20%), Champ (20%), Joshua (20%), Seth (20%)			
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: In Progress (0%)
Who (%): Brandon (33%), Briggs (33%), Josh (33%)			
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: In Progress (0%)
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: In Progress (0%)
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: In Progress (0%)
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.			

Upcoming Tasks: Planning

Task Title: Milestone III: Bugfixing & Optimization	Who (%): Champ (20%), Seth (20%), Brandon (20%), Josh (20%), Briggs (20%)	Rough Due Date: 4/2/2021
Description: Add needed features and optimization the algorithm.		

Other Problems / Other Issues:

- No problems or issues so far.