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|  | **Weekly Team Task Report** | **Report #21** |

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| Team: Team PiWatcher | | | | | | **Date:** 3/23/2021 | | | | | |
| **Project Title:** Automated IoT People Counting Infrastructure | | | | | | | | | | | |
| **A person wearing glasses and smiling at the camera  Description automatically generated** | **Brigham**  Present  On-time | **A close up of a person  Description automatically generated** | **Champ**  Present  On-time | **A person wearing a suit and tie  Description automatically generated** | **Joshua**  Present  On-time | | A person smiling for the camera  Description automatically generated | **Seth**  Present  On-time |  | **Brandon**  Present  On-time |

### Recent Meetings:

### 3/17/2021 – Weekly Work Meeting: Worked on restructuing the portions of the web application. Team also worked on portions of the Design Review presentation.

### 3/19/2021 – Weekly Work Meeting: Continued working on restructing the portions of the web application

### 3/22/2021 – Weekly Team Meeting: Went over tasks from last week. Created and groomed tasks for the week.

### TASKS COMPLETED since last meeting:

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/auth/users/update) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Champ (100%) | | | |
| **Description:** Create the endpoint in the resources module. Create the functionality that updates the user and returns back the user account information as a response. If an error occurs, display it. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/auth/users) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Champ (100%) | | | |
| **Description:** Create the endpoint in the resources module. Create the functionality that displays all the users that is currently in the database as a response. If an error occurs, display it. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/auth/signin) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Champ (100%) | | | |
| **Description:** Update the endpoint to follow new design. Ensure that the correct response is sent and still works as intended. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/auth/roles) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Champ (100%) | | | |
| **Description:** Create the endpoint in the resources module. Create the functionality that displays all the roles that is currently in the database as a response. If an error occurs, display it. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Reorganize resources folder. | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Champ (100%) | | | |
| **Description:** Reorganize the resources such that it follows the current design. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PiWatcher-Doc: Design Review 3 Introduction | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Brigs (100%) | | | |
| **Description:** Create introduction slide that introduces each team member, client, and faculty mentor. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  PiWatcher-Doc: Design Review 3 Solution Overview | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Brigs (100%) | | | |
| **Description:** Create overview slide that outlines plan that will fix the problem that the client is having. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  PiWatcher-Doc: Design Review 3 Requirements Specification Review | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Brigs (100%) | | | |
| **Description:** Create requirements specification slide that outlines the key requirements and outlines the specific capabilities of the product. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  PiWatcher-Doc: Design Review 3 Architecture and Implementation Review | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Brigs (100%) | | | |
| **Description:** Create architecture and implementation slide that outlines the overall architecture and implementation of the solution. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  PiWatcher-Doc: Design Review 3 Challenges and Resolution | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Brandon (100%) | | | |
| **Description:** Create challenges and resolution slide that outlines the challenges that we have had and the resolutions that the team has done. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  PiWatcher-Doc: Design Review 3 Schedule | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Brandon (100%) | | | |
| **Description:** Create a schedule slide that outlines the teams current schedule along with some of the things that we have done and what is upcoming. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  PiWatcher-Doc: Design Review 3 Testing Plan | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Brandon (100%) | | | |
| **Description:** Create a testing plan slide that outlines the teams current testing plan and the key elements of what is going to tested and the what results we are expecting from it. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  PiWatcher-Doc: Design Review 3 Conclusion | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Brandon (100%) | | | |
| **Description:** Create a conclusion slide that summaries the problem and how our solution solves that problem. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Implement SSL encryption | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  Complete (100%) |
| **Who (%):** Seth (100%) | | | |
| **Description:** Autogenerate SSL certs within a docker container. Link the SSL creation container to Gunicorn and serve the backend behind an SSL ecryption. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

### This week’s Tasks: Work plan for coming week

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/data/building/room/weekly) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (75%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Grab weekly data from the database and send data off in a response to the front end. Ensure a failed response is sent if failure occurs. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/data/building/room/daily) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (75%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Grab daily data from the database and send data off in a response to the front end. Ensure a failed response is sent if failure occurs. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/data/building/room/live) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (75%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Grab live data from the database and send data off in a response to the front end. Ensure a failed response is sent if failure occurs. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/data/building/room/yearly) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (75%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Grab yearly data from the database and send data off in a response to the front end. Ensure a failed response is sent if failure occurs. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/data/building/room/quarterly) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (75%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Grab quaterly data from the database and send data off in a response to the front end. Ensure a failed response is sent if failure occurs. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/data/building/room/monthly) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (75%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Grab monthly data from the database and send data off in a response to the front end. Ensure a failed response is sent if failure occurs. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Create functionality for new endpoint (/data/building/rooms) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (75%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Grab all room names for a building from the database. Send the data off in a response to the front end and ensure that a failed response is sent if a failure occurs. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Update endpoint (/data/buildings) | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (75%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Update endpoint so that it follows the new REST API design. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Frontend: Update codebase for new endpoint URL design | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (60%) |
| **Who (%):** Seth (100%) | | | |
| **Description:** Update requests for grabbing rooms and grabbing data for the graph. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Frontend: Update dashboard formatting and mobile support | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (43%) |
| **Who (%):** Seth (100%) | | | |
| **Description:** Create regular expression for password form requirement and implement it into the frontend. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Frontend: Update navigation bar formatting | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (83%) |
| **Who (%):** Seth (100%) | | | |
| **Description:** Add admin button for admin functionality and place the previous time card component within the navbar. Ensure that the navbar resizes correctly on both desktop and mobile. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Frontend: Research methods of favoriting selected charts | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (33%) |
| **Who (%):** Seth (100%) | | | |
| **Description:** Research methods of saving fovorited charts and design the charts favoriting functionality. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Frontend: Create admin view for handling user permissions | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (83%) |
| **Who (%):** Seth (100%) | | | |
| **Description:** Link to admin page through the navbar. Pull users from newly created user endpoint and on user select display privileges in modal. On submit, send selected privileges to database. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Frontend: Query database between dates for graph display | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/22/2021 | **Status:**  In Progress (40%) |
| **Who (%):** Seth (100%) | | | |
| **Description:** Create function to query the database between dates for the graph to display. | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Determine design for token based authentication | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/24/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Champ (33%), Joshua (33%), Seth (33%) | | | |
| **Description:** Create UML diagram that details how to secure connections to the backend/frontend. Determine what tasks are needed for setting up token-based authentication forn both the frontend/backend/IoT. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  PCI-Prototype-Backend: Determine design for forgot password | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/24/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Champ (33%), Joshua (33%), Seth (33%) | | | |
| **Description:** Create UML diagram that details the forgot password flow structure is going to work. Determine what tasks are needed for setting up both the frontend/backend/IoT. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  Design-Review-III: Record video for Introduction slide | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Champ (100%) | | | |
| **Description:** Write script for the introduction slide. Record video presenting the introduction slide and upload the video onto Google drive. | | | |
| **Expected Outcome:** Above description is completed. Video is uploaded onto the Google Drive. | | | |

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| **Task Title:**  Design-Review-III: Record video for Schedule slide | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Champ (100%) | | | |
| **Description:** Write script for the Schedule slide. Record video presenting the Schedule slide and upload the video onto Google drive. | | | |
| **Expected Outcome:** Above description is completed. Video is uploaded onto the Google Drive. | | | |

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| **Task Title:**  PCI-Prototype-Frontend: Designate different dashboad views for different user roles | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/29/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Seth (100%) | | | |
| **Description:** Make adjustments to dashboard for public view (formatting for percentages, hide unnecessary graph queries). Make adjustments to dashboard for admin view (formatting for raw data) | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  Software-Testing-Doc: Review Document | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/29/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Seth (50%), Josh (50%) | | | |
| **Description:** Go through and check if content matches assignment specifications and all grammatical/spelling errors are corrected. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  Design-Review-III: Record video for prototype review slide | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Seth (100%) | | | |
| **Description:** Write script for the prototype review slide. Record video presenting the testing plan slide and upload the video onto Google drive. | | | |
| **Expected Outcome:** Above description is completed. Video is uploaded onto the Google Drive. | | | |

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| **Task Title:**  Design-Review-III: Send pictures for prototype review | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Seth (100%) | | | |
| **Description:** Send pictures of the entire workflow on the frontend. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  PCI-Prototype-IoT: Restructure entry JSON data | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/29/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Restructure JSON to fit changes in the backend | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  PCI-Prototype-IoT: Create an install script for environment variables | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/29/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Create shell script to handle setting up environment variables. Test script to ensure it works as intended. Add script to be executed in setup shell script | | | |
| **Expected Outcome:** Above description is completed. Pull request is created, reviewed, and accepted. | | | |

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| **Task Title:**  Design-Review-III: Record video for testing plan slide | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Write script for testing plan slide. Record video presenting the testing plan slide and upload the video onto Google drive. | | | |
| **Expected Outcome:** Above description is completed. Video is uploaded onto the Google Drive. | | | |

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| **Task Title:**  Design-Review-III: Record video for architecture implementation overview slide | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Josh (100%) | | | |
| **Description:** Write script for the architecture implementation slide. Record video presenting the architecture implementation slide and upload the video onto Google drive. | | | |
| **Expected Outcome:** Above description is completed. Video is uploaded onto the Google Drive. | | | |

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| **Task Title:**  Design-Review-III: Record video for conclusion slide | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Brandon (100%) | | | |
| **Description:** Write script for the conclusion slide. Record video presenting the conclusion slide and upload the video onto Google drive. | | | |
| **Expected Outcome:** Above description is completed. Video is uploaded onto the Google Drive. | | | |

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| **Task Title:**  Design-Review-III: Record video for challenges and resolutions slide | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Brandon (100%) | | | |
| **Description:** Write script for the conclusion slide. Record video presenting the conclusion slide and upload the video onto Google drive. | | | |
| **Expected Outcome:** Above description is completed. Video is uploaded onto the Google Drive. | | | |

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| **Task Title:**  Design-Review-III: Create DR3 video | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/29/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Brigs (100%) | | | |
| **Description:** Edit together DR3 video together and upload the video onto YouTube. | | | |
| **Expected Outcome:** Above description is completed. | | | |

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| **Task Title:**  Design-Review-III: Record video for problem statement slide | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Brigs (100%) | | | |
| **Description:** Write script for the problem statement slide. Record video presenting the problem statement slide and upload the video onto Google drive. | | | |
| **Expected Outcome:** Above description is completed. Video is uploaded onto the Google Drive. | | | |

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| **Task Title:**  Design-Review-III: Record video for solution overview slide | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Brigs (100%) | | | |
| **Description:** Write script for the solution overview slide. Record video presenting the solution overview slide and upload the video onto Google drive. | | | |
| **Expected Outcome:** Above description is completed. Video is uploaded onto the Google Drive. | | | |

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| **Task Title:**  Design-Review-III: Record video for requirements specifictaion overview slide | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Brigs (100%) | | | |
| **Description:** Write script for the requriements specification slide. Record video presenting the requirements specification slide and upload the video onto Google drive. | | | |
| **Expected Outcome:** Above description is completed. Video is uploaded onto the Google Drive. | | | |

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| **Task Title:**  Requirements-Refactor: Go through and edit requirements affected by CAS-like restructure | **Task Initiation:**  3/8/2021 | **Orig. Due Date:**  3/28/2021 | **Status:**  In Progress (0%) |
| **Who (%):** Brandon (20%), Brigs (20%), Champ (20%), Josh (20%), Seth (20%) | | | |
| **Description:** Go through and highlight requirements that we have completed and setup a document for Duane to discuss requirements that need to be changed by the CAS-like restructure. | | | |
| **Expected Outcome:** Above description is completed. | | | |

### Upcoming Tasks: Planning

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| **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. | | |

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| **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.