2021-05 Monthly Status Report

Activities completed this month

1. Demo docker submissions to Emily Townley who is designing a MIDRC challenge. I should have a non-gpu and a gpu submission ready soon:
   a. Currently I am signed in to the DTI Azure Active Directory. I need this to access and create resources for the MIDRC challenge. Now that we intend to test gpus out we want to test on a non-MedICI subscription.
   b. Steps to complete:
      i. Deploy GPU VM through DTI subscription
      ii. Test out submissions and have MIDRC folks test them as well
      iii. Make some changes to UX workflow for dockersubmimssions
2. Kheops report is finalized and we just received word from Joel (from Kheops) that OHIF only saves length measurements. I will add that detail to the report and hand off to Ulli.
3. Didn't quite get around to fixing the codalab deployment on nci's network. A docker issue crept up again and I had to wait for Kevin Olexa to disable "cylancecsv", some sort of anti-virus software.
4. Setup up highlight system on medici-challenges.org to indicate which challenges still accept submissions.
5. Setup Dr. David Newitt's BMMR2: Breast Multiparametric MRI for prediction of NAC Response challenge (https://qin-challenge-acrin.centralus.cloudapp.azure.com/competitions/2).
6. Setup Dr. Mazurowski's 2nd part of his challenge (https://spie-aapm-nci-dair.westus2.cloudapp.azure.com/competitions/6).

Planned for next month

1. Continue the Federated Learning Document about integrating MedICI and Federated Challenges.
   a. Document is pending some additional notes. We are currently working with ACR (American College of Radiology) to deploy some Federated Learning clients and servers and this will greatly help me understand the complexities involved with setting up Federated learning challenges. Next month hopefully I'll have a better idea of what goes into setting up a system like this.
2. Submit an ePoster to AAPM by the end of June.
3. Add DAIR challenge (Dr. Mazurowski's challenge part 2) to https://medici-challenges.org

Meeting	Date
Bi-weekly Meeting #1	13 May 2021
Bi-weekly Meeting #2	26 May 2021

Milestones

Description	Date
• Got access to DTI Azure Active Directory	31 May 2021
• BMMR Challenge has launched	28 May 2021
• DAIR Challenge has launched	24 May 2021
• Got access to ACRs VMs for Federated Challenges	31 May 2021

Task in Progress

Description	Status	Creation Date	Close Date
Investigated Kheops	Finished	05 Mar 2021	15 Jun 2021

Risks

Description	Mitigation	Rank	Status	Creation Date	Realization	Close Date

NCI codalab port to python3 with jQuery update	Make this a higher priority	1	In progress	31 May 2021	Every time I log in to the system there is an unforeseen complication keeping me from working on the project. I believe we are just working out the kinks. Soon I should get a a couple hours to finish this off.	