2020-12 Monthly Status Report

Activities completed this month

1. I finished re-writing the transcript for Carolyn.
2. Reminded Jayashree to send invoices for Sept (new contract).
3. Finished UI development and api construction of docker image upload.
4. Received scoring program for SPIE-AAPM Breast Cancer Challenge. Added to challenge site.
5. Updated SPIE-AAPM site to include new validation phase data.
6. Get PIV card for NIH access (appointment is scheduled for 12/22/2020). **UPDATE: Done**
7. Kevin Olexa, from NCI is tried upgrading the JQuery of their deployment of the codalab MedICI instance over at NCI/NIH. It seems it will be a lot of work. The new plan is to have me try out the v2 codalab otherwise known as codabench (https://www.codabench.org/). This was built with python3 and jQuery 3+. This should circumvent any issues with up to date packages.

Planned for next month

1. The SPIE-AAPM Breast Cancer challenge has started (25 participants). Challenge link: http://spie-aapm-nci-dair.westus2.cloudapp.azure.com/. Will need to double check that they have the scoring program ready (I know it is not right now..).
2. Add Okta as supported feature in MedICI GitHub and website.
3. Continue ascertaining the validity of v2 codalab (codabench)
4. Add support link and message regarding using the api for image and metadata downloads.

Comments

Things that went well:

SPIE-AAPM Challenge for reference:

http://spie-aapm-nci-dair.westus2.cloudapp.azure.com/

- I have Patrick's code loaded and working almost in the cloud. While extremely close, the COVID challenge this was being built for will need to proceed with plan b. This is the standard docker submission we have talked about and will also have Okta integration and docker upload functionality.
- Scoring program integration for SPIE-AAPM was seamless. Mateusz Buda, a data scientist working on the Breast challenge, created an easy to use evaluation script that I could tie into codalab and is being used to score submissions.
- I have the start of the codabench deployed and it almost works. There is a problem with the static files not being able to be found so there is no style on the web app when browsed to.
- The forum and issue tracker were used in the SPIE-AAPM challenge

Meeting	Date
Bi-weekly Meeting #1	10 Dec 2020
Bi-weekly Meeting #2	24 Dec 2020

Milestones

Description	Date
• UI for uploading docker images is created.	01 Jan 2021

Task

Description	Resolution	Status	Creation Date	Close Date

Risks

Description	Mitigation	Rank	Status	Creation Date	Realization	Close Date

Ingress service in Kubernetes is not behaving like the standard tutorials or documentation	Keep plugging away to find the correct configuration	1	closed	23 Oct 2020	Azure has inconsistent docs on how to set this service up. 01 - 06 - 2021: Patrick's new changes worked out the kink.	06 Jan 2021
Challenge taking too long to setup. People are worried about it failing to materialize	We really need a solid deployment of this architecture on Azure. Basic functionality is not working and some of the harder stuff is still being developed.	1	Open	31 Oct 2020	Now that CodaLab has been deconstructed from its normal configuration (postgres as an azure service rather than container; codalab as a pod in kubernetes instead of container; codalab code in azure file shares rather than the host machine), getting all the pieces to talk to one another isn't working seamlessly yet. 01 - 06 - 2021: Plan b is in full swing	06 Jan 2021
Scoring program not ready for the SPIE-AAPM challenge	I have drafted a preliminary white board thought process to understand the desired implementation. I have a couple questions, but could turn it into code if I had to.	2	Open	30 Nov 2020	Scoring program works and is in place for Breast challenge.	01 Jan 2021