**Standup meeting 22.9.22**

**Tharen Candi**

**Accomplished since last meeting:**

* Fixed image prediction code
* Half way through code to automate prediction of svs manifest file that can be executed on any machine. It will take off from next svs that has not been predicted already, and can resume prediction on an svs due to predicting in tiles.
  + Current plan is to assume svs files to predict are downloaded or being downloaded concurrently. The script does not call the download script itself to download an svs. It will wait for the svs to be downloaded. (This is not an ideal solution.)
  + Will be integrated with code that can send the produced masks to a storage server.

**To do by next meeting:**

* Complete predict\_manifest() code.
* Upload meeting minutes for last thursday

**Problems encountered:**

* Dependent on tiling code being developed by jamie.
* Trying to figure out the best way to record progress, (files (appending or rerewritng) or sqlite db..)
* Testability is restricted by internet and prediction time.

**Alex Lin**

**Accomplished since last meeting:**

* Write up frontend system architecture, including details on:
  + General Requirements
  + Specific Requirements
  + Component Architecture
  + Entities
  + API Endpoints
  + Data Store
  + Optimisation
* Refactor Top Bar component into subcomponents, using JSX lists with UUID key generation to handle groups of similar components
* Refactor CSS to use global css styles in the TailwindCSS config
* Rebuild responsive layout in the Top Bar
* Reworked icons to use SVGR Plugin
* Build first custom hook for hitting test API endpoint
* Modified first custom hook to accept first dummy file info from backend via API

**Todo by next meeting:**

* Rethink API endpoints and communicate file entity structure with backend team
* Update developer documentation to contain information on the frontend system architecture
* Complete modals for generating or downloading content
* Complete functionality for downloading files
* Figure out how to write some frontend tests for React components

**Problems**

* Progress dependent on backend team API development
* More communication needed to convey desired API structure
* Need further clarification on ability to collect file status via API

James Walden

Since meeting: created frontend ui, fixed workflow to now pull request main when significant progress made on frontend branch

Next meeting: help with backend integration + frontend testing

Problems: busy working on OS assignment

**Jamie Mickaill**

Since meeting : refactor and clean up tile code + tests. Should work for cnn now

Next meeting : remove unnecessary code and integrate with main model

Problems: awaiting credentials to test cnn on server

**Gorjan Muratov**

Since meeting:

* Update watershed algorithm accuracy
* Worked on file conversion script
* Made conversion wiki

Next meeting:

* Start attempting to go from semantic segmentation output to instance segmentation of each cell for AI algo
* Try speeding up file conversion script

Problems:

* Speed of file conversion script (try get as fast as possible)

**Hongjia Cai (Roy)**

**Accomplished since last meeting:**

* Added weight initialiser in the model
* Tuned models with HeNormal and HeUniform

**To do by next meeting:**

* Experiment and implement more mechanics to fine tune the model

**Problems encountered:**

* Time limitation

**Nicholas Lukman**

**Since Meeting**:

* Further developed REST api
* implemented GET /all endpoint to serve information on all scans in database
* Implemented GET /scan endpoint to serve a specific scan file

**Next Meeting**:

* implement POST /scan endpoint for uploading a scan
* Finalize API requirements from frontend team

**Problems**

* Clarification on API requirements