

# SENG 371 - Group 63 - Iteration 2

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## Business/Logic Layer - Week 2

- Finish web-app frontend and backend
  - Create pages for viewing, managing and creating jobs
  - Add password changing
  - Add a user home page
  - Create the signal to be sent to the rest of the system when a job is created
  - Link up all the front end pages to each other
- Implement navigation and data pulling from example data store
- Update backend database after job completion for display in the front end
- Creating script to convert image data into STAC compliant catalog
  - Requires pulling aspects of the STAC creation code into the project
- Analysis on how to best partition data. No implementation until STAC data exists.

## Risk Analysis

1. We likely won't be able to create a test algorithm to include in the docker files. We originally wanted to perform a representative function when the data is input to highlight the partitioning and aggregation of processed results. However, there is a large learning curve on how to properly utilize the earth observation data directly. Being software engineering students rather than data scientists, we feel we should dedicate our development time to developing the infrastructure and allow the scientists to populate the docker with a more realistic example.
2. We have had to lower our expectations on UI as well. Originally, we wanted to create UI mockups and have a much more interactive and pretty UI. Based on technical difficulties and time constraints, we have planned to have a much simpler frontend to show the proof of concept of the build.
3. We have a lot of tickets in our github project that are cascading in nature, meaning they are all blocking each other. This could likely be a point of failure if we are held up on any of the sections since there will be a hold up on all

subsequent sections. We may have to cut some of the features near the end of these changes depending on technical difficulties or time constraints of the project.