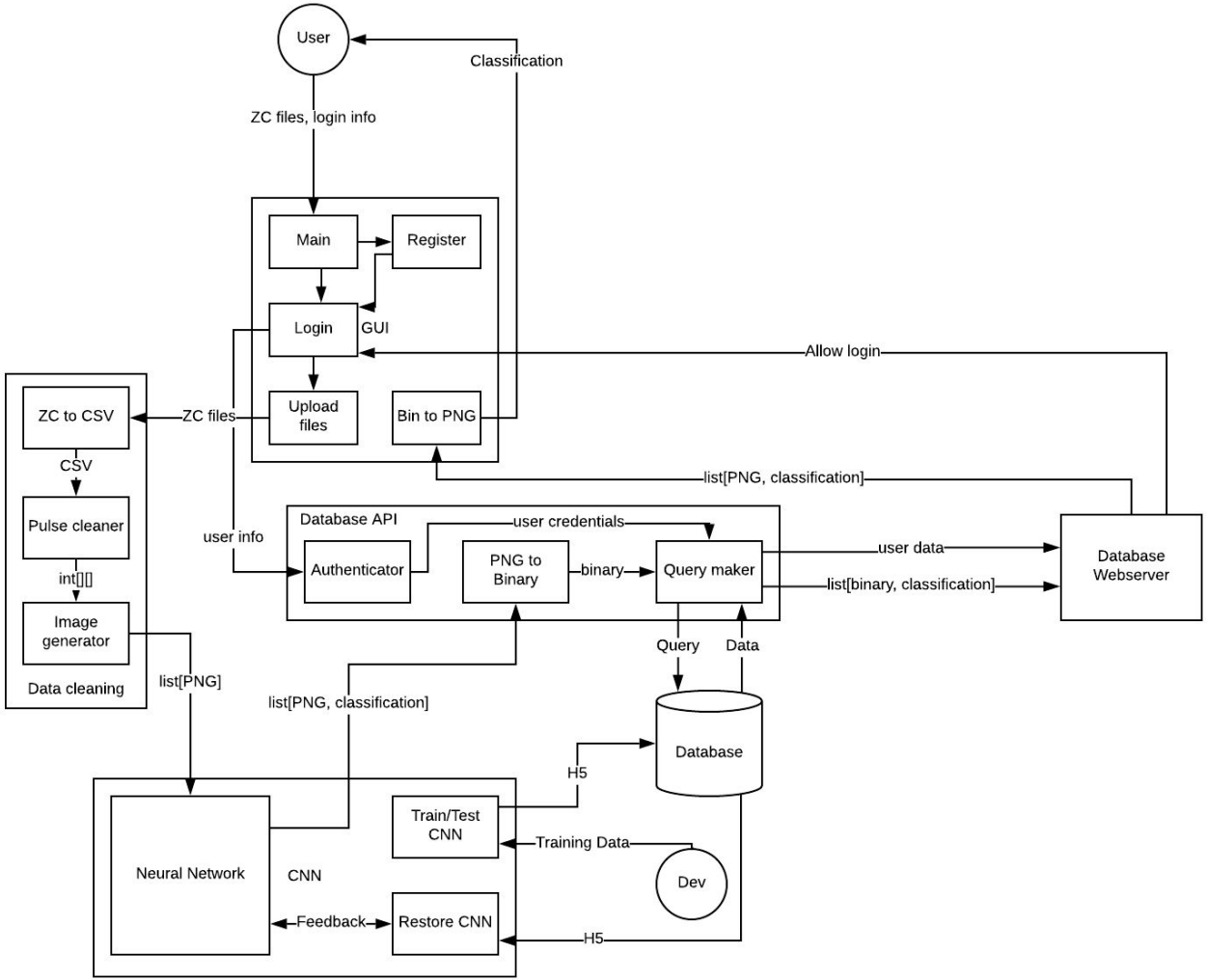
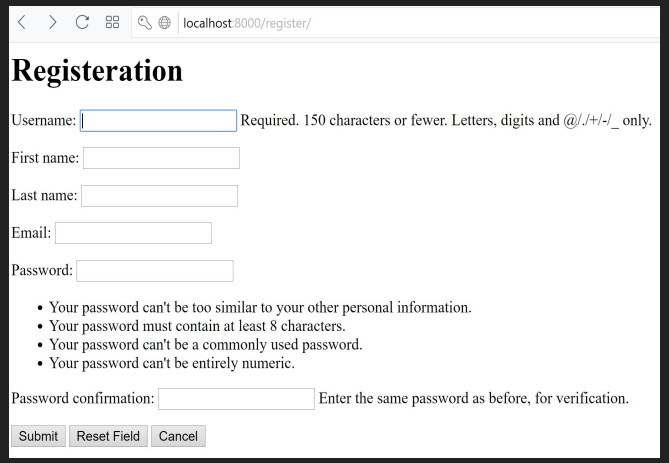
BATALOG

Progress Report #2.2

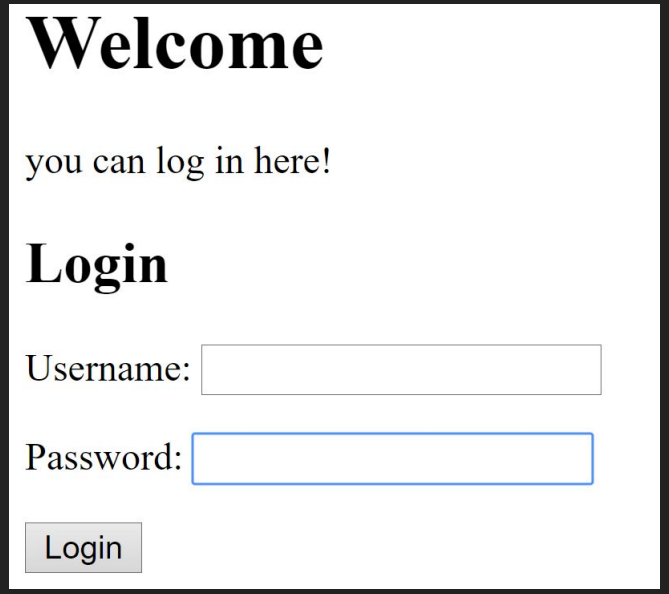
Group Members:
Hadi S. (h_soufi) | **David M.** (dlmassey)
Rahim I. (r_iqbal) | **Kevin K.** (knkeomal)
Thien L. (t_le)

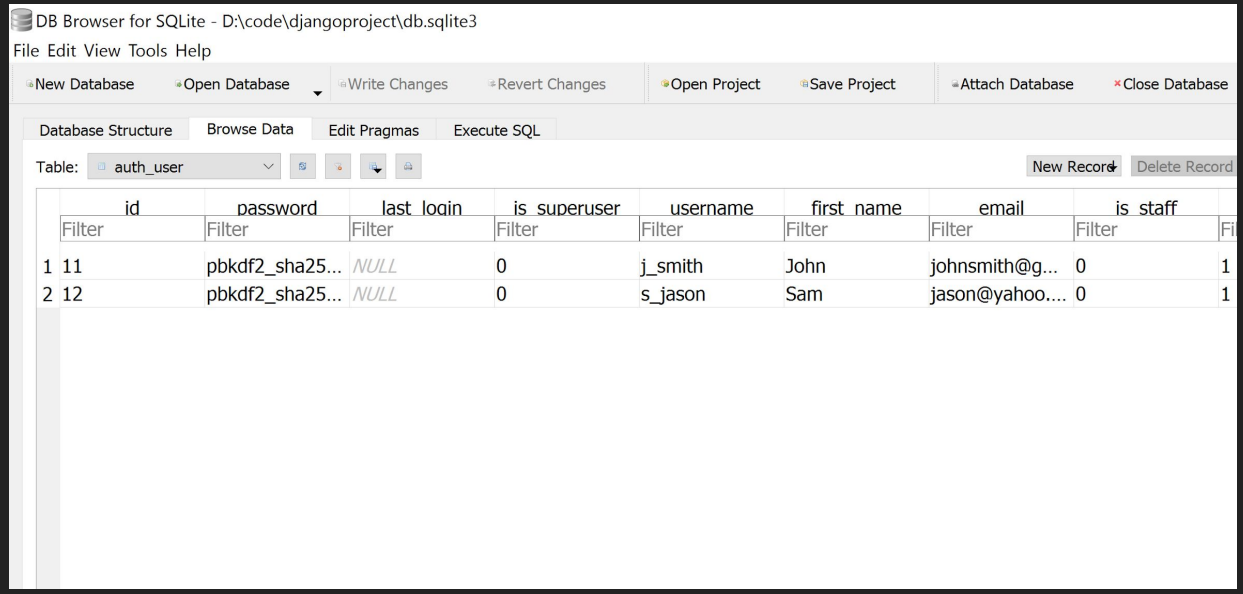
Overall System Model

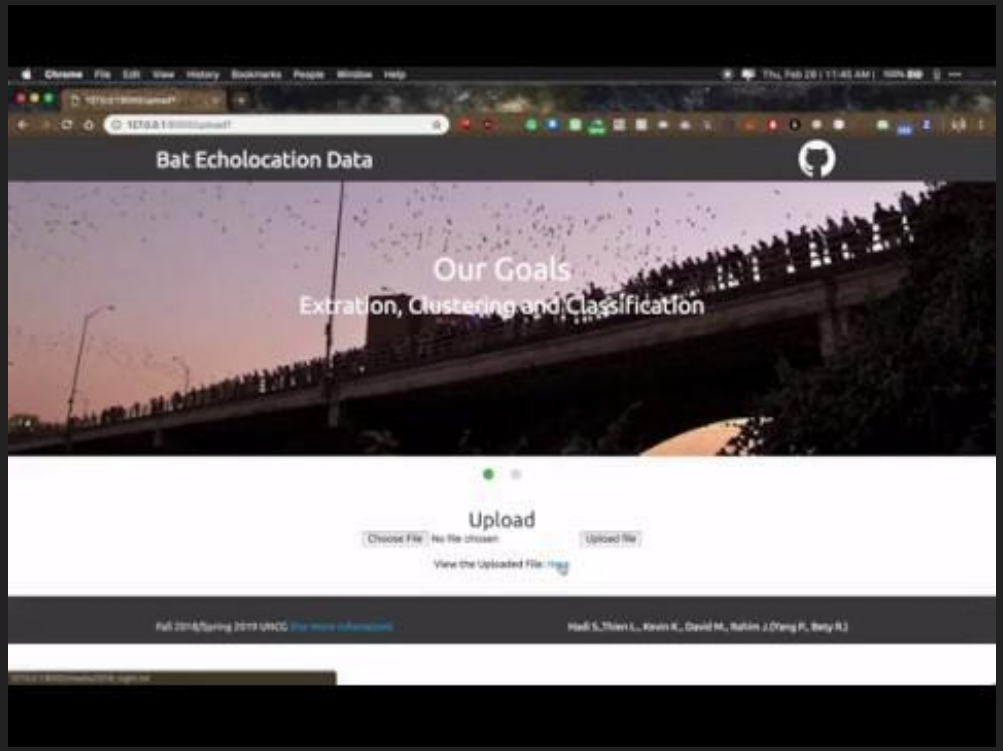




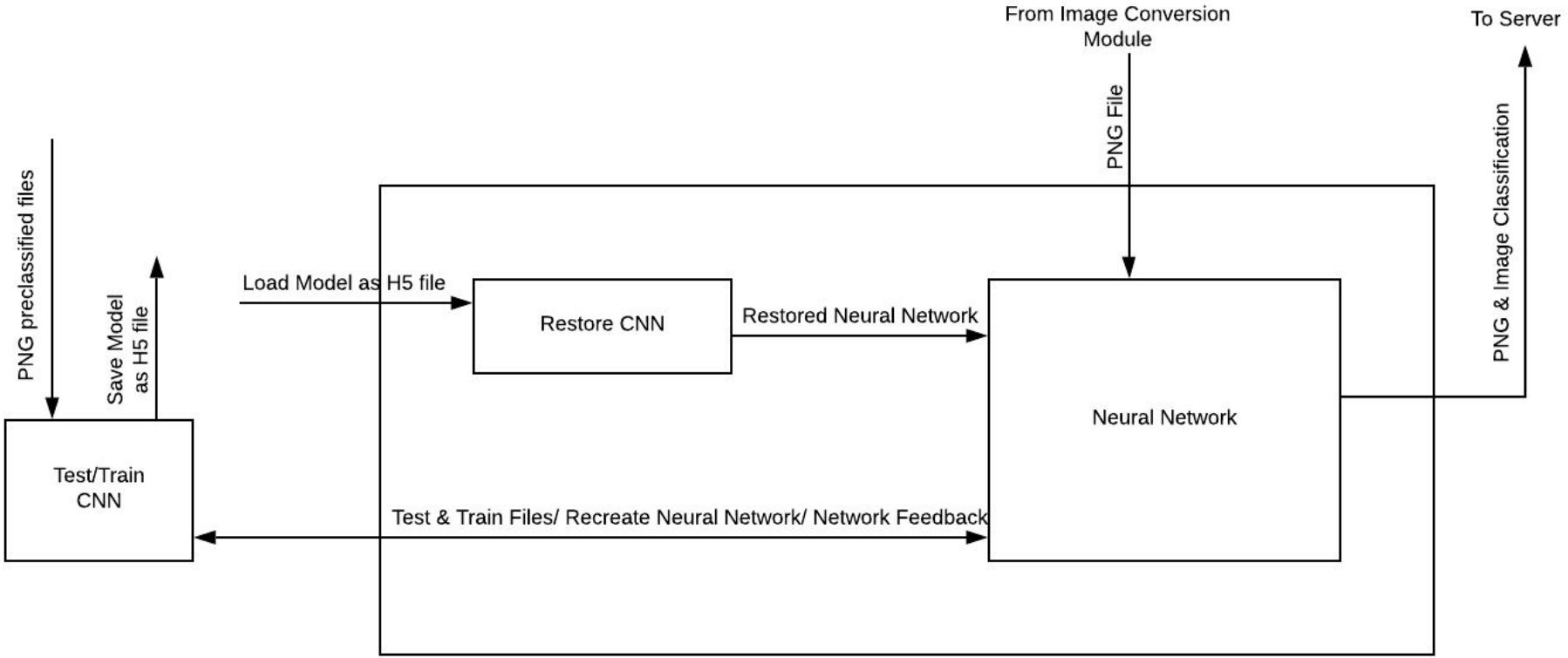
Registration & User database



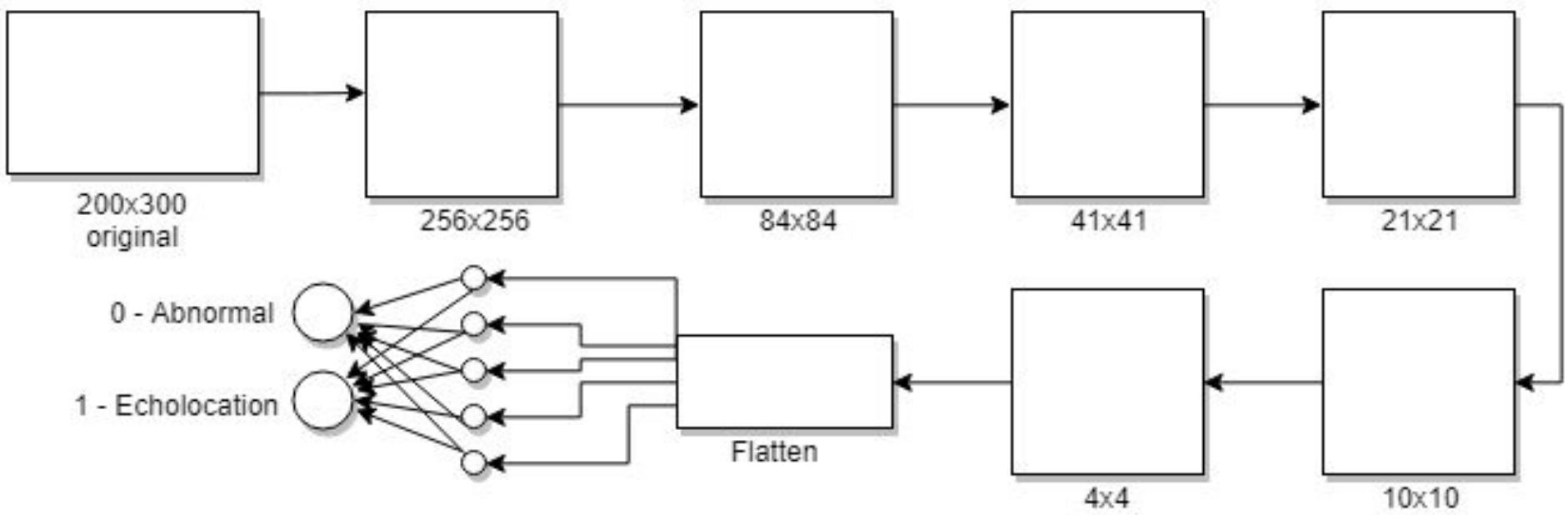




Zero-crossing file analysis


From Image Conversion Module
To Server
PNG File
PNG & Image Classification
PNG preclassified files
Save Model as H5 file
Load Model as H5 file
Restore CNN
Restored Neural Network
Neural Network
Test/Train CNN
Test & Train Files/ Recreate Neural Network/ Network Feedback

CNN



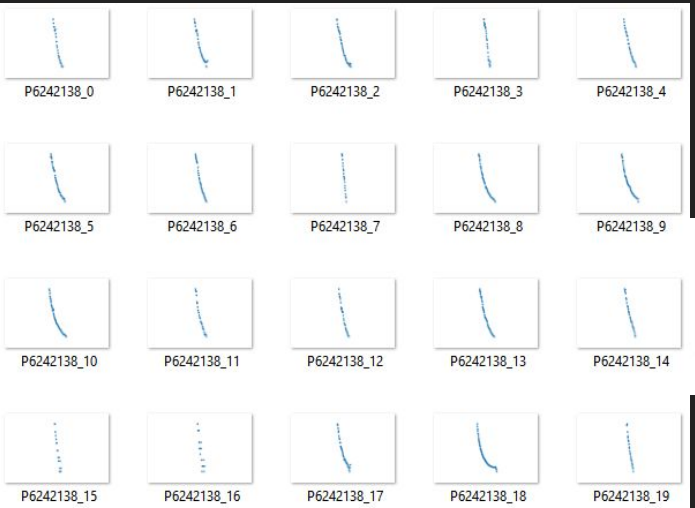
CNN

- Preliminary models showed high accuracy but bad predictions
- Researched information about other models
- Decided to make the convolutional and pooling layers by hand using their math formulas
- Resulting model showed higher accuracy with greatly improved predictions.
- Continued to test other image augmentations and setting changes to acquire better results

Manual Data Classification

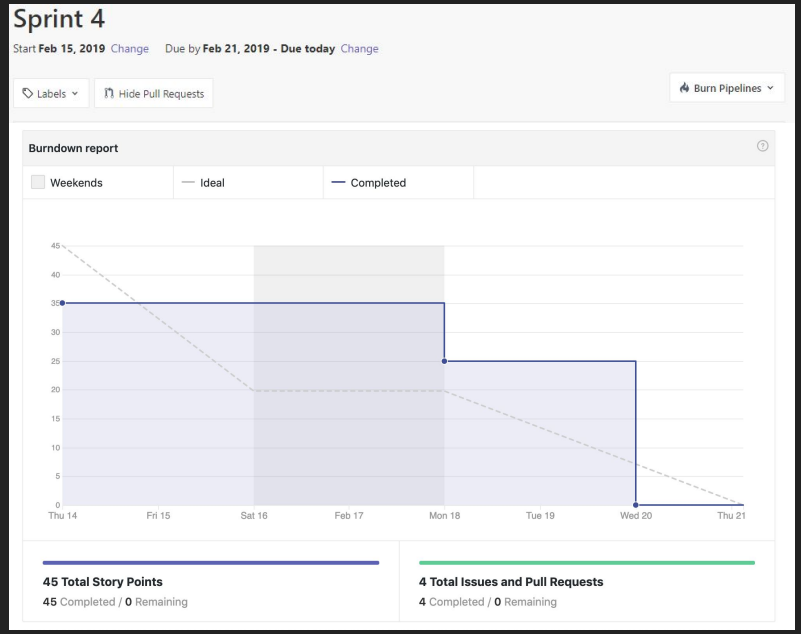
	files	classification
0	../Bat_Echolocation_2019/data/pulses/56110632....	echolocation
1	../Bat_Echolocation_2019/data/pulses/56110632....	echolocation
2	../Bat_Echolocation_2019/data/pulses/56110632....	echolocation
3	../Bat_Echolocation_2019/data/pulses/56110632....	echolocation
4	../Bat_Echolocation_2019/data/pulses/56110632....	echolocation

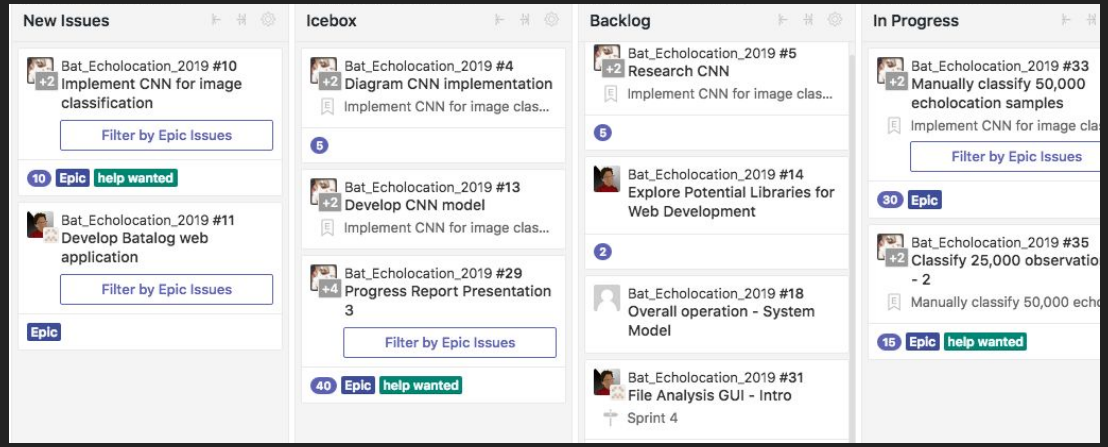
Echolocation



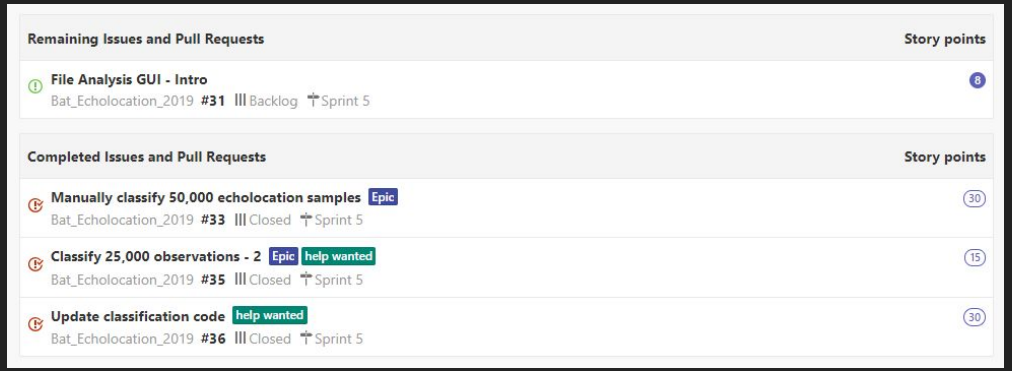
Abnormal

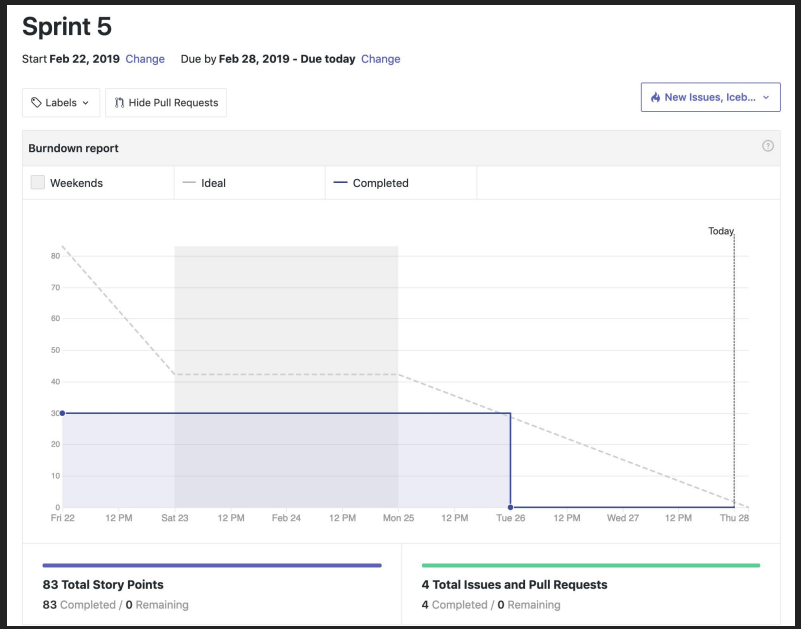
Scrum Sprint 4

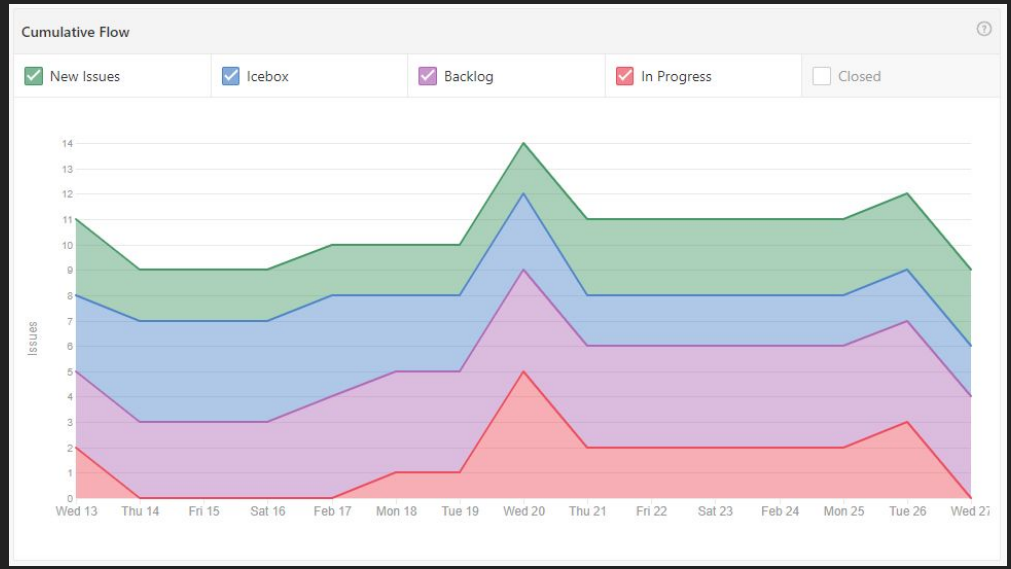




Scrum Sprint 5







Thank you!

BATALOG

Progress Report #2.2

Group Members:
Hadi S. (h_soufi) | **David M.** (dlmassey)
Rahim I. (r_iqbal) | **Kevin K.** (knkeomal)
Thien L. (t_le)