BATALOG

Progress Report #2.5

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

Original PNG file 200x300 → CNN (Convolutional 40x60 → Pooling 20x30 → Convolutional 4x6 → Pooling 2x3 → Flatten → FC) → 0 - Abnormal / 1 - Echolocation
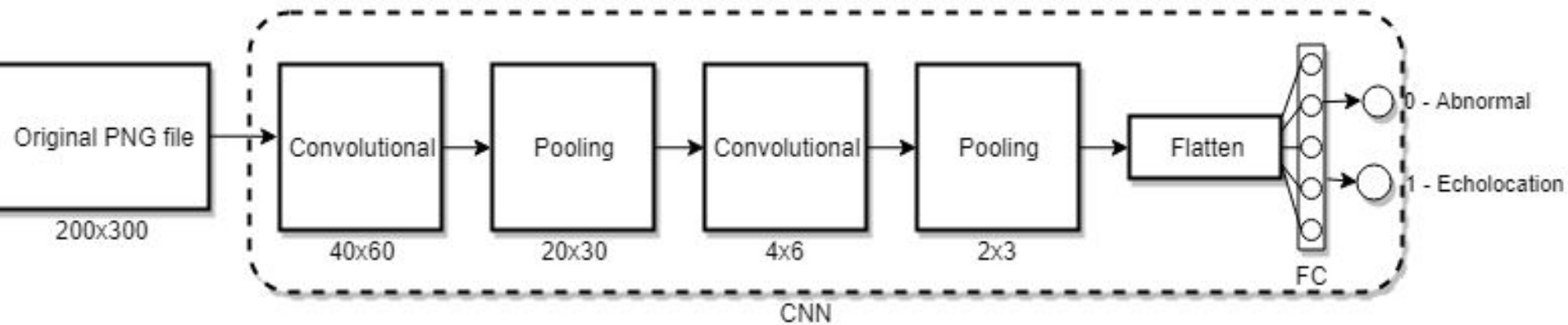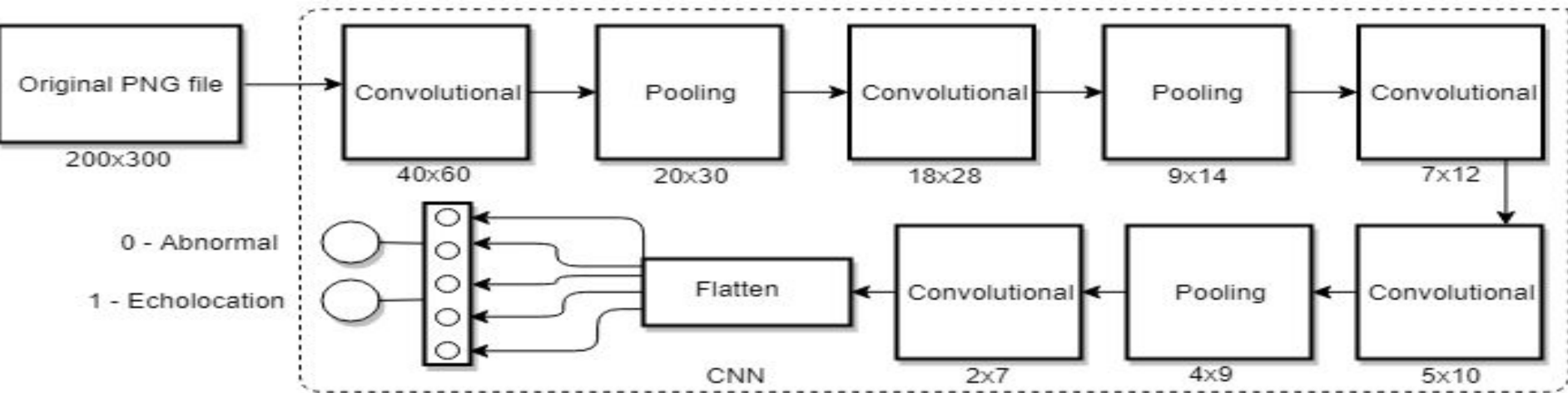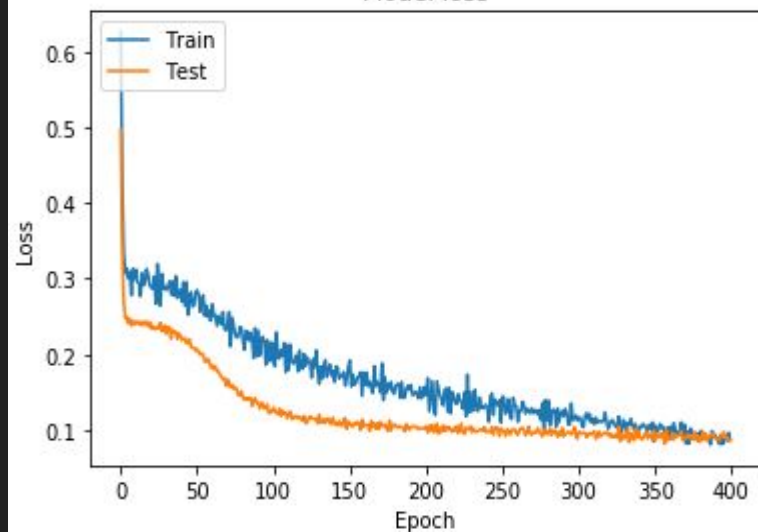
al_loss

Best accuracy:
75% for abnormal
99% echolocation

CNN

3
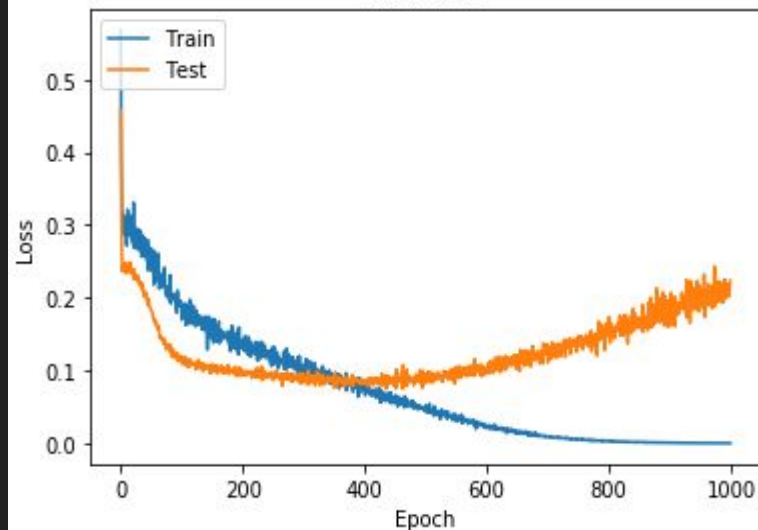
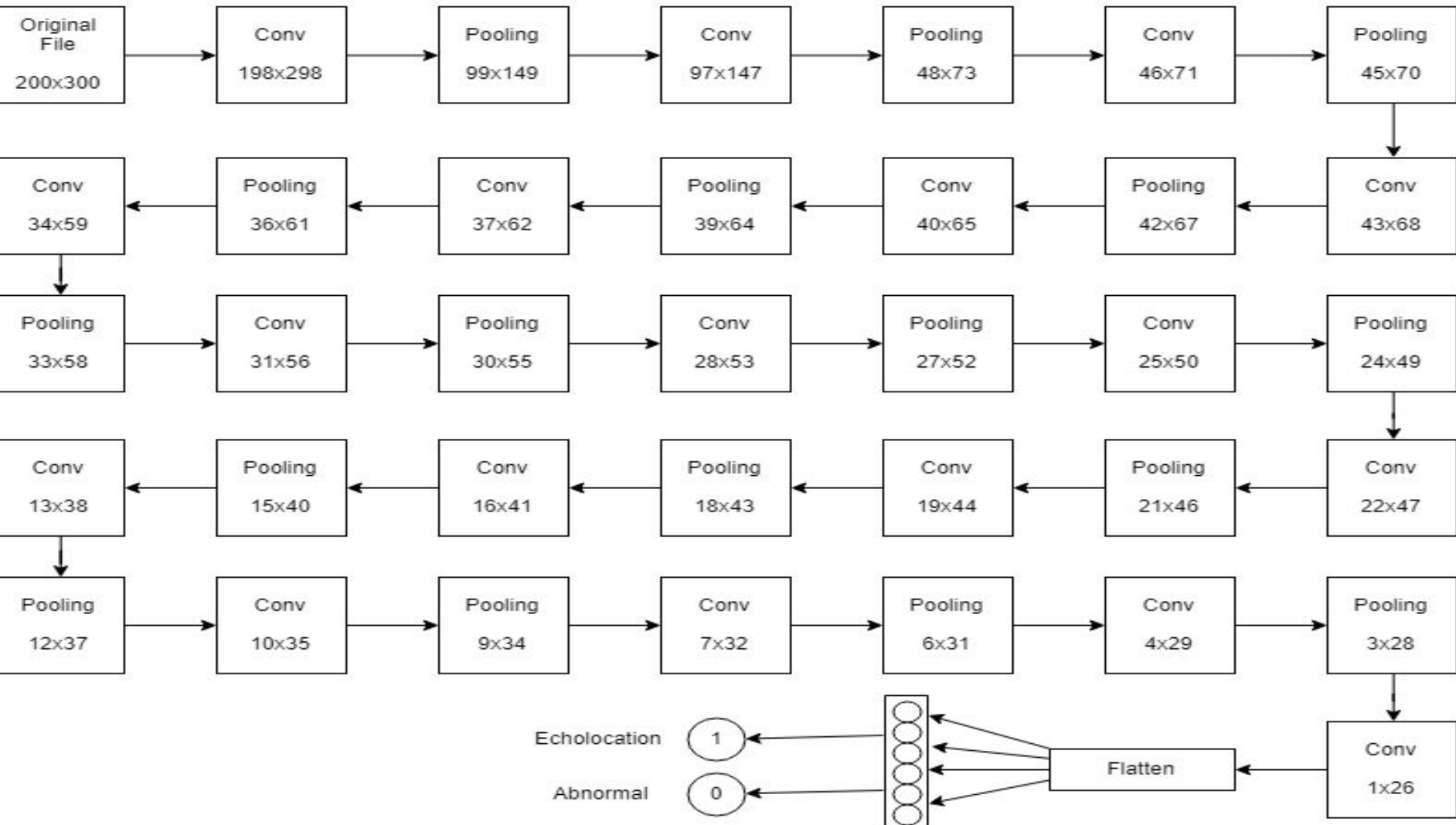# Database API

Added in "metadata" column to "images" table
(Possibly split up "metadata" column?)

	name		raw classification	metadata
0	P7172114_4.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
1	P7172114_0.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
2	P7172114_15.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
3	P7172114_20.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
4	P7172114_12.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
5	P7172114_8.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
6	P7172114_11.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
7	P7172114_13.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
8	P7172114_21.png	b"\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
9	P7172114_9.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
10	P7172114_14.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
11	P7172114_7.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
12	P7172114_18.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
13	P7172114_3.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
14	P7172114_1.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
15	P7172114_10.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
16	P7172114_19.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
17	P7172114_22.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
18	P7172114_17.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
19	P7172114_16.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
20	P7172114_2.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
21	P7172114_5.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...
22	P7172114_6.png	b'\x89PNG\r\n\x1a\n\x00\x00\x00\rIHDR\x00\x00\...	echolocation	date=,loc=,species=['NYHU'],spec=SD1 Mod1,note...

	username	password	email	first_name	last_name
0	kkeomalaythong	************	kkeomalaythong117@gmail.com	kevin	keomalaythong

Created "users" table

File Analysis

- **Work in progress:**
  - Fetching images files from the database rather than the media folder, and output them.
  - Research on Django Zipping FIles implementation.
- **Todo:**
  - Implement CNN into the web and get the desirable results.
  - Allow the user to download the results in a zipped file.
    - Inside the file should be two folder(Abnormal and Echolocation) based on the CNN results.

Graphing Tool

Scrum Sprint 8

Completed Issues and Pull Requests

Story points

Install DBBrowser for SQLite
Bat_Echolocation_2019 **#54** ||| Closed ⊤ Sprint 8 — 5

Experiment with DB Browser `Epic`
Bat_Echolocation_2019 **#55** ||| Closed ⊤ Sprint 8 — 20

Create a table for images
Bat_Echolocation_2019 **#56** ||| Closed ⊤ Sprint 8 — 5

Create a table for user registration info
Bat_Echolocation_2019 **#57** ||| Closed ⊤ Sprint 8 — 5

Sort out issues with running Django website via PowerShell `help wanted`
Bat_Echolocation_2019 **#58** ||| Closed ⊤ Sprint 8 — 15

Connect DB API to Django's SQLite3 DB
Bat_Echolocation_2019 **#59** ||| Closed ⊤ Sprint 8 — 20

Group Meeting 2019-03-19
Bat_Echolocation_2019 **#60** ||| Closed ⊤ Sprint 8 — 10

Create tables in SQLite3 database
Bat_Echolocation_2019 **#61** ||| Closed ⊤ Sprint 8 — 10

Add images to Image table (SQLite3 DB)
Bat_Echolocation_2019 **#62** ||| Closed ⊤ Sprint 8 — 10

Set Up Basic Operations (DB API)
Bat_Echolocation_2019 **#63** ||| Closed ⊤ Sprint 8 — 15

Set up image data fetching
Bat_Echolocation_2019 **#65** ||| Closed ⊤ Sprint 8 — 15

Clean up DB API code and push to repo
Bat_Echolocation_2019 **#66** ||| Closed ⊤ Sprint 8 — 10

Have DB API pass image data back to GUI
Bat_Echolocation_2019 **#67** ||| Closed ⊤ Sprint 8 — 15

Create Progress Report 2.4 presentation slides `help wanted`
Bat_Echolocation_2019 **#68** ||| Closed ⊤ Sprint 8 — 20

Sprint 8

Start **Mar 15, 2019** Change Due by **Mar 21, 2019 - Due today** Change

⊘ Labels ∨   ⫿ Hide Pull Requests   ⛽ Burn Pipelines ∨

Burndown report

☐ Weekends   — Ideal   — Completed

Today

100
140
120
100
80
60
40
20
0

Fri 15 12 PM Sat 16 12 PM Mar 17 12 PM Mon 18 12 PM Tue 19 12 PM Wed 20 12 PM Thu 21

175 Total Story Points
175 Completed / **0** Remaining

14 Total Issues and Pull Requests
14 Completed / **0** Remaining