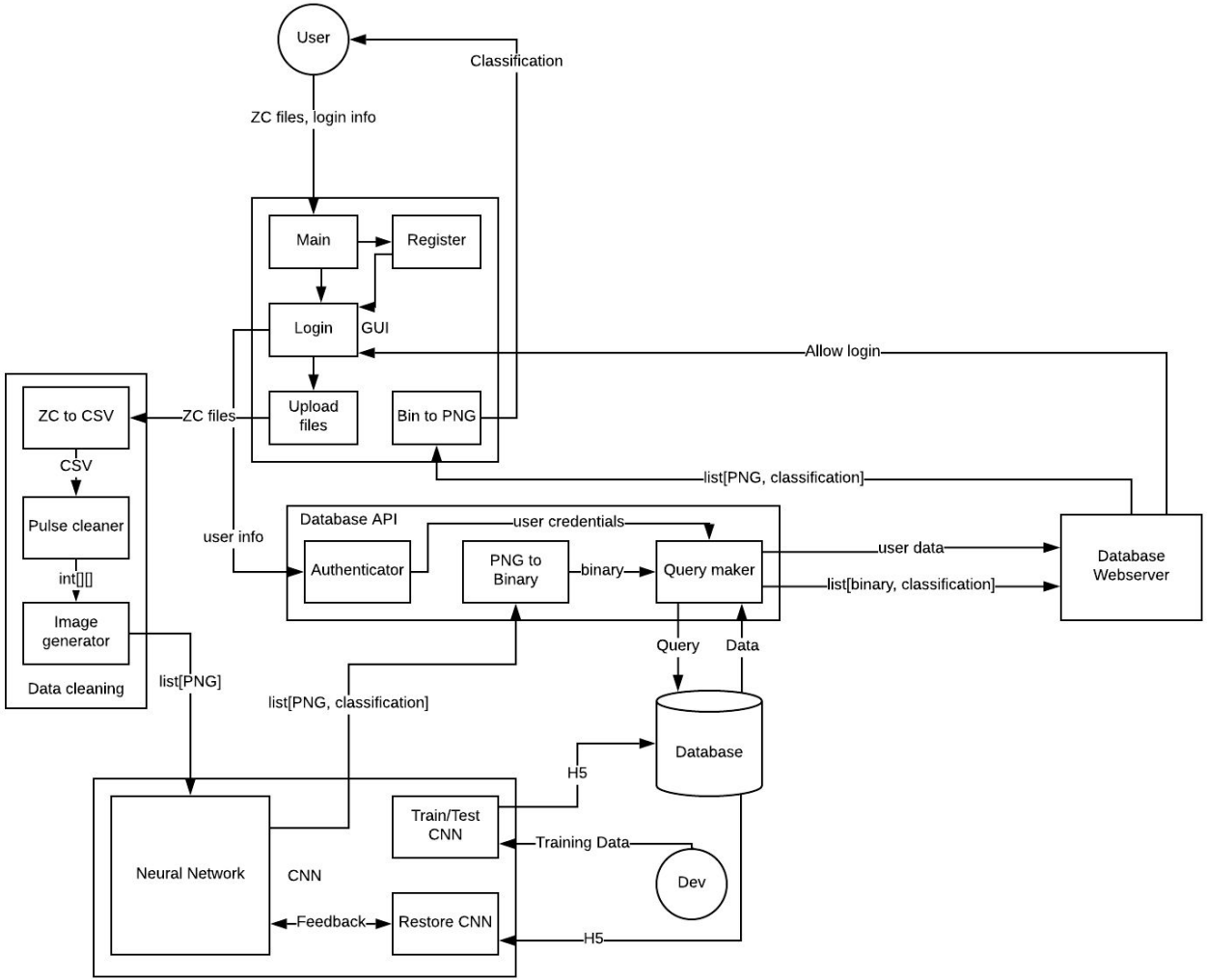
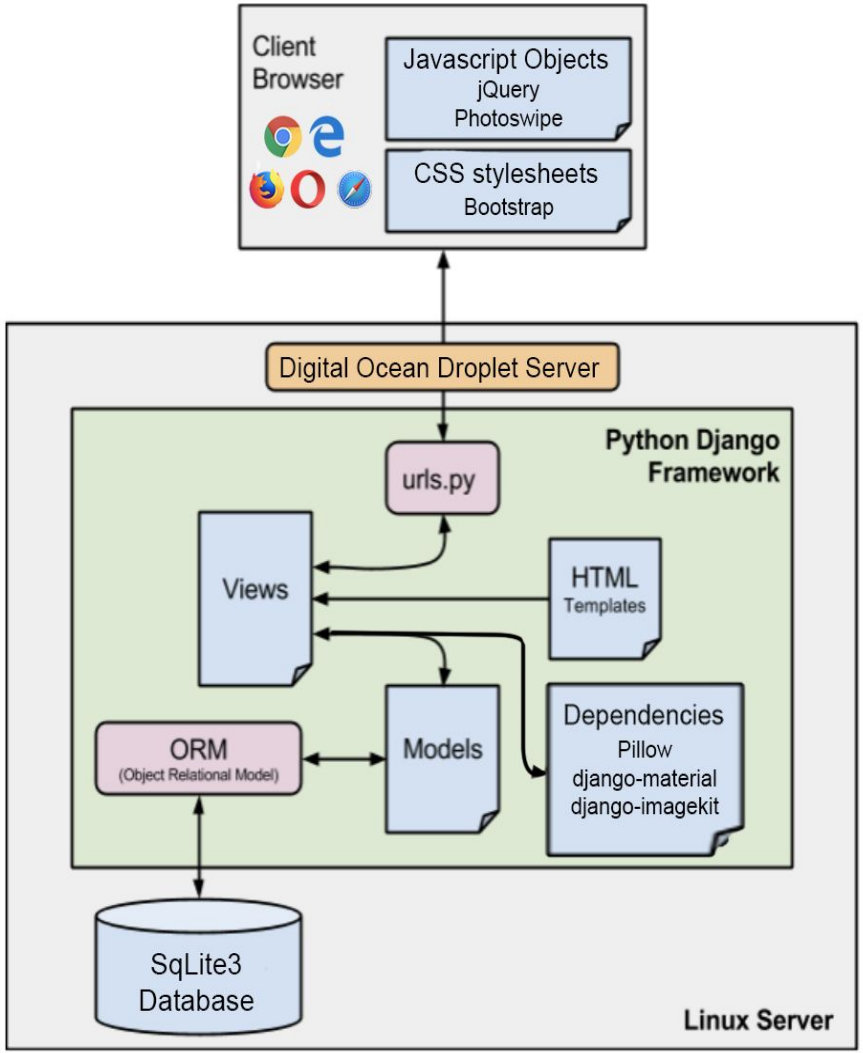
BATALOG

Progress Report #2.1

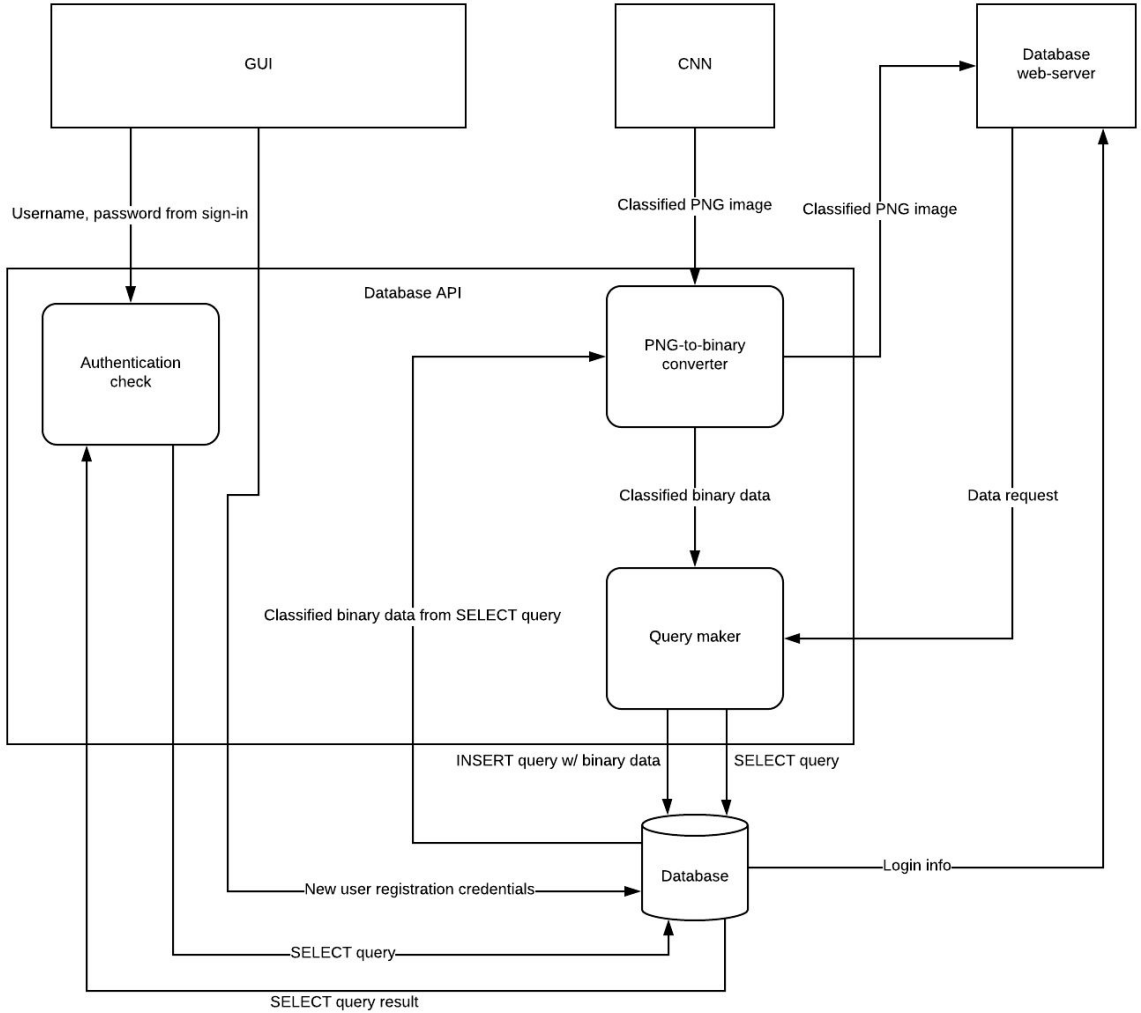
Group Members:
Hadi S. (h_soufi) | **David M.** (dlmassey)
Rahim I. (r_iqbal) | **Kevin K.** (knkeomal)
Thien L. (t_le)

Overall System Model



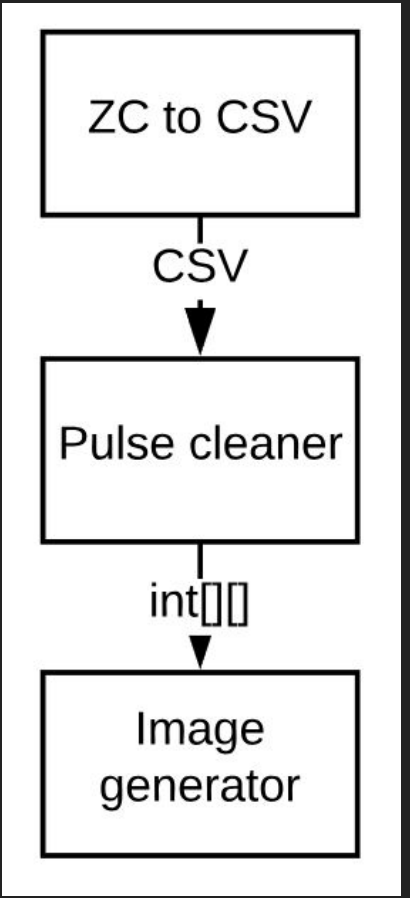


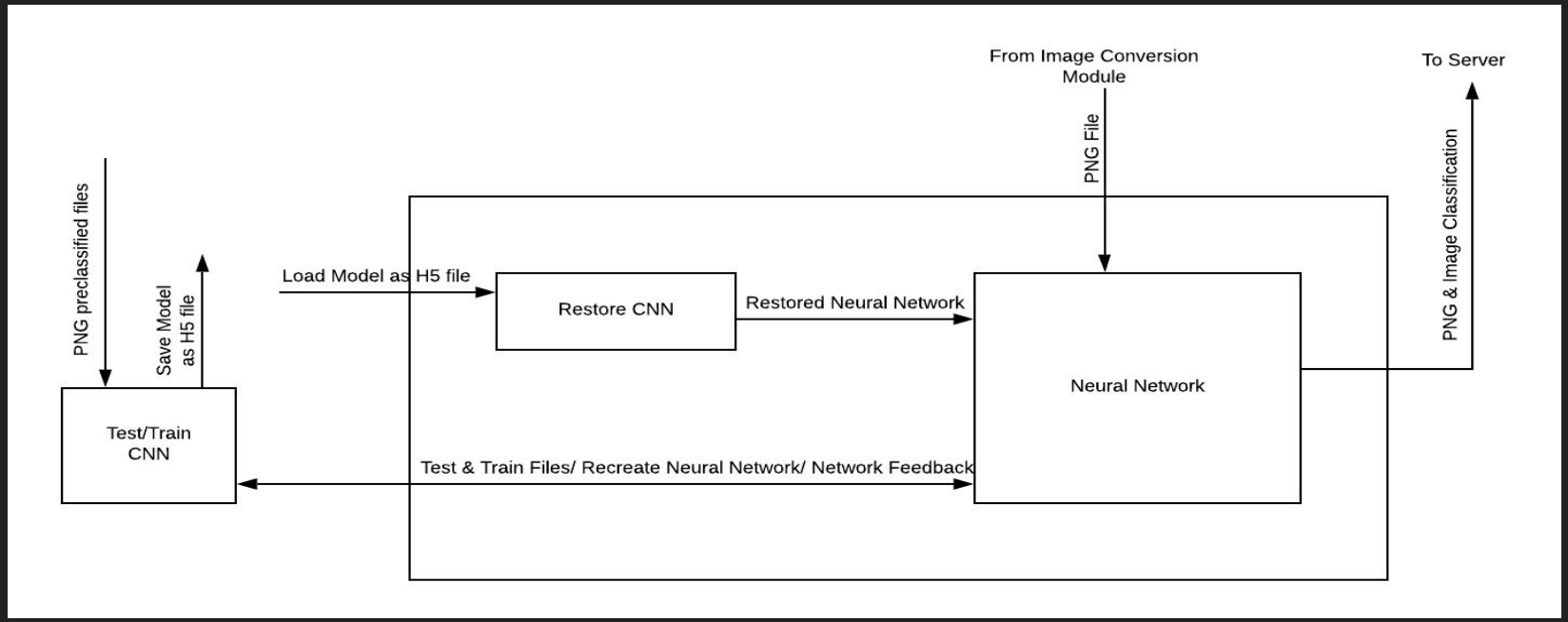
Connection from web to database



Database API

Pulse Processing





CNN

- Added Test/Train CNN to the diagram above
- 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.

Subsystems Analysis

CNN - O(n)

Registration page - O(1)

Zero-crossing file analysis - O(n)

Database API operations - O(log n)

Overall system:

O(n)

Scrum Sprint 4

Sprint 4

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

Labels Hide Pull Requests Burn Pipelines

Burndown report

Weekends Ideal Completed

53 Total Story Points

45 Completed / **8** Remaining

5 Total Issues and Pull Requests

4 Completed / **1** Remaining

Remaining Issues and Pull Requests	Story points
File Analysis GUI - Intro Bat_Echolocation_2019 **#31** Backlog Sprint 4	8

Completed Issues and Pull Requests	Story points
Implement data classification code help wanted Bat_Echolocation_2019 **#12** Closed Sprint 4	10
Improve database API diagram help wanted Bat_Echolocation_2019 **#30** Closed Sprint 4	10
Create data classification code help wanted Bat_Echolocation_2019 **#32** Closed Sprint 4	10
Classify 25,000 observations - 1 help wanted Bat_Echolocation_2019 **#34** Closed Sprint 4	15

Thank you!

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