

# BATALOG

PROGRESS REPORT #1.5

**GROUP MEMBERS**

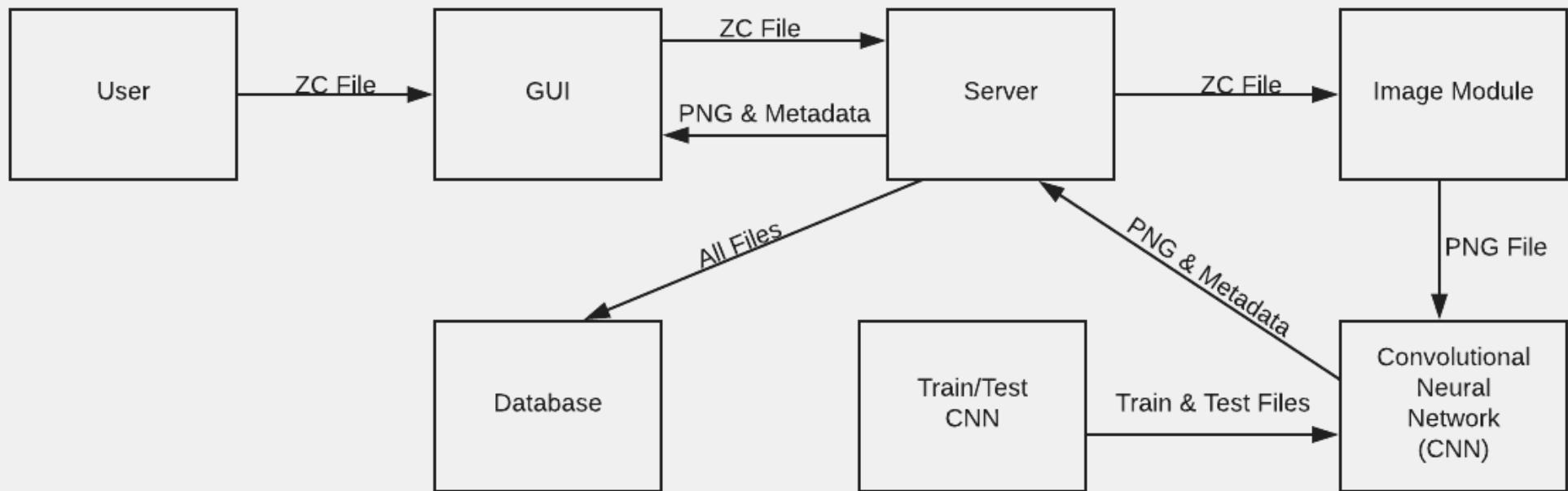
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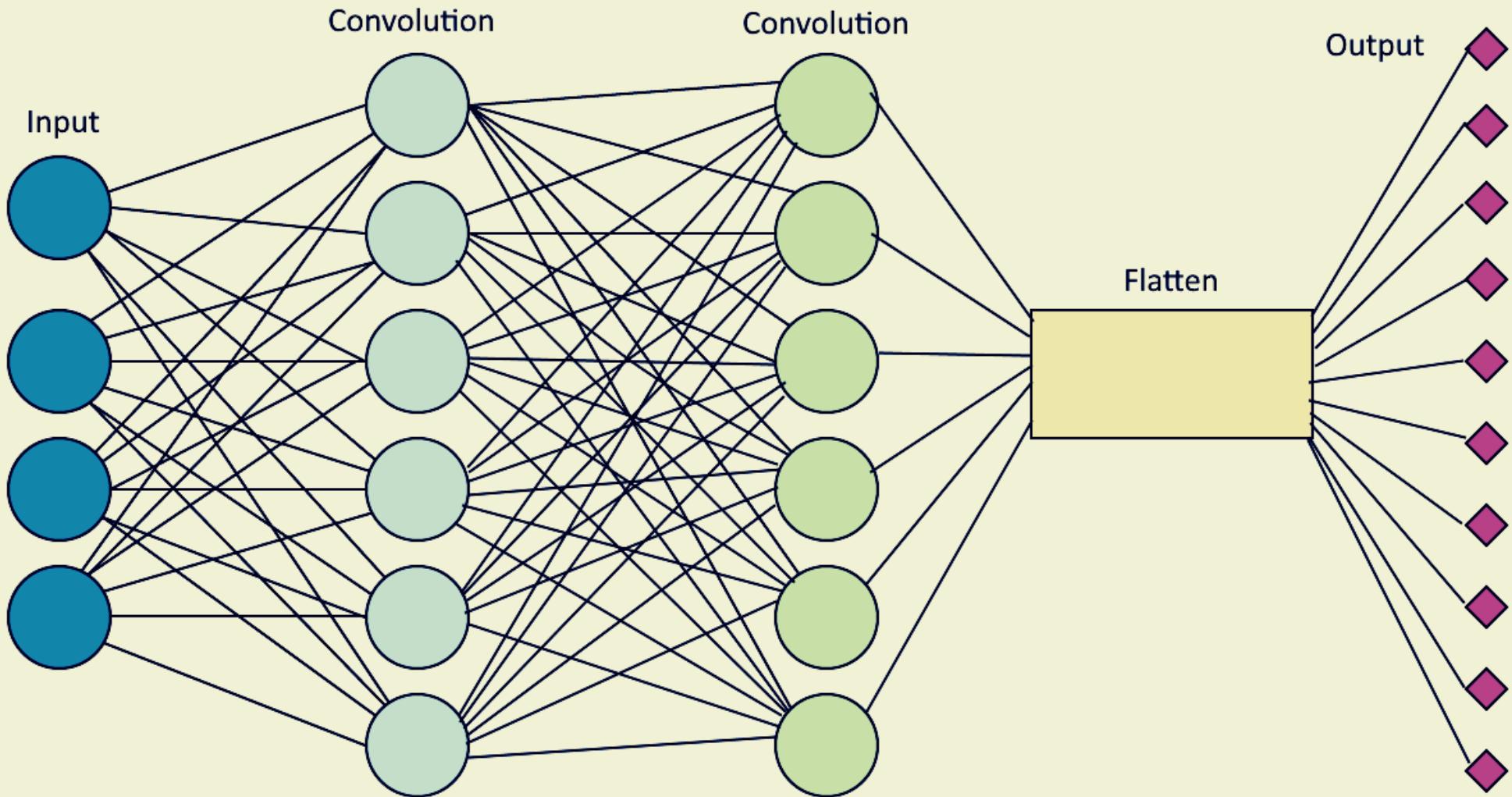
## BATALOG DESIGNS

### Main Focus

- The working of files through the modules and the Convolutional Neural Network.

### The Research

- The CNN represents a major part of the original project that is incomplete



# CNN DESIGN

- Due to complexity and theory, this research is addressed early
- This is one example of a CNN used with the MNIST dataset

## PROGRESS REPORT

### CNN Research

- Continued exploration into CNN inner workings
- Practiced classification w/ MNIST dataset

### Prototype

- No convolutional layers
- Mostly a TensorFlow learning exercise
- Dataset pipeline
- A whole different class of debugging

# PROJECT REQUIREMENTS

## AREA

- Machine Learning
- Web Development
- Database Management

## DEVELOPMENT ENVIRONMENTS

- Jupyter Notebook
- Atom
- Sublime Text

## LIBRARIES

- TensorFlow + Keras API
- Numpy
- Scipy
- Pandas
- Matplotlib
- Sklearn
- Glob
- Dash
- Pillow 5
- Django 2

## FRAMEWORK

- Django 2
- SQLite3
- Python 3

## GENRE

- Research tool

## PLATFORMS

- Web



# LIBRARIES

- TensorFlow + Keras API - Deep learning tools
- Numpy - N-dimensional arrays and other math utilities
- Matplotlib - Python 2D plotting library
- Dash - Framework for analytical web applications
- Pillow - Image processing
- Django - Open source framework
- Situational- Glob, Scipy, Sklearn, Pandas

# PRIORITIES

1

**SUPER**

- File Interface
- File Stream
- Develop CNN model

2

**MAJOR**

- Upload functionality
- Train CNN model

3

**MINOR**

- User System
- Live Website
- Apply model to web application



2 Issues - 10 Story Points

**New Issues**

- Bat\_Echolocation\_2019 #10  
+2 Implement CNN for image classification

[Filter by Epic Issues](#)**10 Epic help wanted**

- Bat\_Echolocation\_2019 #11  
Develop Batalog web application

[Filter by Epic Issues](#)**Epic**

4 Issues - 8 Story Points

**Icebox**

- Bat\_Echolocation\_2019 #7  
+2 Start on the requirement docs

Sprint 2

**3 help wanted**

- Bat\_Echolocation\_2019 #4  
Diagram CNN implementation

Implement CNN for image clas...

**5**

- Bat\_Echolocation\_2019 #12  
+2 Manually classify png images

Implement CNN for image clas...

**13**

- Bat\_Echolocation\_2019 #13  
+2 Develop CNN model

Implement CNN for image clas...

3 Issues - 8 Story Points

**Backlog**

- Bat\_Echolocation\_2019 #6  
+4 Presentation

Sprint 2

**1 help wanted**

- Bat\_Echolocation\_2019 #5  
+2 Research CNN

Implement CNN for image clas...

**5**

- Bat\_Echolocation\_2019 #14  
Explore Potential Libraries for Web Development

Sprint 2

**2**

0 Issues - 0 Story Points

**In Progress****0**

0 Issues - 0 Story Points

**Review/QA****SPRINT PLANNING**

- ZenHub issues.
- Diagram
- Progress
- Hands on with Cgithub

**SPRINT RESTROSPECTIVE**

- Progress
- Problems

**DAILY SCRUM MEETING**

- When2meet
- Discord
- Messenger



# THANK YOU

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BATALOG

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