

# W.C.I.T (What Cat Is That) Project

## Project Scope

1. What breed of cat is that
  - Cat owners are notorious for not knowing what breed of cat they own.
  - Whilst dog owners could tell mix of breed each dog is.
  - As a fellow cat enthusiast myself every time I see a cat I wonder hmmm what type of cat is that?
2. Data
  - For this project we will use OpenAI to Identify the cat.
  - Cat Breeds dataset
  - <https://universe.roboflow.com/cian-zpr5u/cat-breeds-obw8e>
3. Model
  - Using OpenAI to Identify the cat breed.
  - Domain (Help me choose a cheap domain).
  - Use Postegre SQL database (store history)
  - Molter Middleware (image upload from phones, device based session management, doesn't require accounts).
  - OpenAI's vision API for identifying cat breed (help me choose a cheap API)
  - Add limits to the api add a fallback to free gpt model.
  - Want to use github!
4. Deployment
  - Vibe code web development using ExpressJS backend and React front end.
  - UI simple mobile friendly web application.
  - Deploy via Microsoft Azure

## What I hope to learn

1. How to deploy a functional AI project application.
2. Use GitHub efficiently.
3. Utilise OpenAI to make predictions for me. (Reuse rather than build my own model)
4. Learn how to use Postegre SQL database
5. Learn more about Molter Middleware and how to use it.
6. Adding fallbacks (learn how to save cost, business mindset)
7. Learn how to deploy applications on Microsoft Azure (Important)

## Sprints

### Week 1.

- Vibe code phone app
- Simple but clean user interface with two pages
- **Page 1**

- Title (CWIT) a paragraph explaining the inspiration of the app.
- Take a picture/ upload section.
- Once a picture has been taken a partial view pops up, showing congratulations you have found a “American short hair” for example.
- A percentage chance of what other breeds it might be will appear under it.
- Give some fun facts about the cat.
- It then gets saved into the database and it also gets stored into the 2<sup>nd</sup> page.

- **Page 2**

- Named cat collection.
- Shows a gallery view of all the cats you have taken a picture or uploaded, under each picture is the name of the breed.
- There will be a dropdown under the name, showing all the fun facts as well as the likelihood it is another breed.