Milestone 3:
Team Tyrannosaurus: Dylan Painter, Shirley Qi, Vicky Xie, AJ Reiter

Current State of Project:

- Model has been trained
- Website exists (code can be accessed through website.ipynb)
    - Model can predict all 75 pokemon in the website
    - Information about the pokemon is shown when predicted
    - Information about what other pokemon it could have been (the top 5 prediction accuracies) is also shown for some of the pokemon (Pokemons 1-37)
    - Currently only runnable from colab via importing a public repo.

Feature Changes:

- The original proposal mentioned that the website would work with at least one Pokemon. However, we have all the HTML templates prepared and the Pokedex works for all Pokemon. This is because the proposal was written in the worst case scenario that creating the web server would be difficult and take a considerable amount of time, thus focusing on one pokemon would give us ample time for us to figure out the web server deployment. However, the web server was created with minimal problems, so we made use of the extra time and finished up all the HTML templates for each Pokemon. As a result, the Pokedex is now fully functionable . In other words, given a valid input, you will be redirected to the appropriate Pokemon page.
    - This will also give us more time to work on the final PDF and video due next week

Challenges and Bottlenecks:

- Everything is pretty much done on the project, and no major challenges can be seen.
- The website can currently only be run on colab. If we want to run it from the command line, we will need to first pip install things like PyTorch, which is easy, but then we will either need to convert the model back to the cpu/no device, or figure out how to run the code on the gpu from the command line.
- The hardest thing would have been to make the website public, but a piazza post by the instructor said that it wasn't necessary. The video and final report about the project are the main tasks left

Tasks completed by each member since last milestone:
Dylan:

- Created HTML templates for pokemon 1-18
- Tried to learn Django and learned that it wasn’t the best choice for us to make a website
- Partially learned about how to get the website public before seeing the piazza post that we didn’t have to make it public

Shirley:

- Created HTML templates for Pokemons 19-37 + Home.HTML

- Added code to transfer model top 5 prediction numbers to HTML templates

Vicky:

- Designed and created HTML templates for Pokemons 57-75

AJ:

- Created HTML templates for Pokemons 38-56
- Built the flask backend script
    - imported the model into the website
    - implemented the action form to input images and return a prediction, then redirect to the appropriate pokemon's HTML form.

Things left todo:

- Cleanup code to be neater and add comments
- Fix website's model so that the website can be run from the command line rather than colab.
- Add code for top 5 accuracies for Pokemons 38-75
- Write the final report
- Create the video showing off the project