Spring Break Check-in (April 1st, 2024)

Completed Steps:

* Researched architecture (YOLOv8, OpenCV)
* Gathered various datasets to test and train the model with (Roboflow, Kaggle)
* Analyzed various datasets to determine the best dataset(s) for our product
* Designed project code structure
* Delegated tasks to members of the team
* Assigned due dates to minor benchmarks for the

Steps to work on:

* Compile and build custom datasets from multiple sources
* Implement project architecture, including but not limited to:
  + Implementation for templates / training data
  + Scalable image detection
  + Basic image / template identification
* Compile code and convert from Google Colaboratory into an executable file (optional)
  + For this, we would include a command line tool to work with.
* If time permits, download model weights and build UI for inference (can also upload to Roboflow for already built UI)

How-to-use-YOLO: <https://blog.roboflow.com/how-to-train-yolov8-on-a-custom-dataset/>

Datasets:

* Plane closeups: <https://universe.roboflow.com/test-j5noj/plane-zonaw/dataset/1>
* Planes in skies: <https://universe.roboflow.com/testiharac/test-0.01/dataset/6/images>

Colab Link: <https://colab.research.google.com/drive/1R6fC9SSZ0jGePDqLVMlVYQ0n4hQRfWsF?usp=sharing>