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From: Coyote2

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### Summary

- Team Coyote2 had a meeting with Prof. Tony and Team Coyote1.
- Team Coyote2 collected the dataset.
- Team Coyote2 preprocessed the dataset.
- Team Coyote2 tried to set Raspberry Pi.
- Team Coyote2 trained models using image dataset.
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### What Coyote2 completed this week

- Team Coyote2 had a meeting with Prof. Tony and Team Coyote1 to modify the project's architecture.
- Team Coyote2 met with ph.D. Mia and team Coyote1 about .
- Team Coyote2 did the environmental setting for Raspberry Pi.
- Team Coyote2 experiments using Mel-Spectrogram and CNN model by image.
- Team Coyote2 preprocessed all Coyote and Non-Coyote class dataset.
- Team Coyote2 found dog, chicken, fox dataset including environment noise.

### Things to do by next week

- Make a list the experiments with the model and feature extraction method.
- Make a csv file for the custom dataset.
- Doing experiments (combine various model and feature extraction method)
- Compare the feature extraction results, and fix the method which we will use.
- Explore solutions to solve audio transmission time and packet transmission rate.
- Connect our model into Raspberry Pi.

### Problems or challenges

- There is a problem with setting Python in Raspberry Pi.
- There are several dataset that contain inappropriate data, so all dataset would be checked manually.

### References