**Meeting Notes** **Date**: 2 – 23 – 2024  
**Meeting**: Shifting Project Goals for Sprint 3

**Attendees**: Team Members, Client

**Discussion Points**:

1. **Code Development Update**:
   * The YOLO model has been implemented and is successful in detecting birds, perform well after several training runs.
   * The YOLO model has been partially implemented for detecting house finches; with only female house finches being identified accurately. Male house finches have different feather colors, so adjustments are needed to identify them correctly.
2. **Shifting Project Goals and Updated Goals**:

* During our progress check, Dr Booth had some concerns.
  + Our initial plan focused on improving the confidence of the YOLO Model, particularly for identifying house finches in sprint 2, and possibly aiming to identify sick house-finch birds in sprint 3.
  + Dr. Booth expressed concern about achieving significant improvements in model accuracy through this approach.
  + Therefore, Dr. Booth recommended creating a user interface (UI) for the client to enhance the usability of the model for those who may not be familiar with coding practices.
* The team discussed this recommendation with the client, who agreed that a UI would improve usability and transferability.
* Therefore, the team will address the model’s low accuracy regarding male house-finches in sprint 2. Sprint 3 will mark a shift away from the YOLO model towards developing a user interface.

1. **UI fundamentals:**

* To ensure the client understood the purpose of the UI, the team discussed the fundamental goals for its potential design.
* Our group believes the User Interface should streamline the model's execution and help to properly assign images with questionable confidences, which require a manual review and assignment.
* Therefore, expected features include a feature to input folders containing images, a visual progress indicator of the model's processing status after the files have been submitted, and the presentation of questionable images to the user upon completion, accompanied by buttons allowing for the assignment of these images to the correct folder location. Once completed, the folders are outputted with the images rearranged based on the presence of a bird, the presence of a house finch, and folders containing everything else.

1. **Client Feedback:**

* The client supported the recommended shift in our project focus from machine learning to user interface development.
* During discussions on UI fundamentals, the client suggested a potential feature: a confidence slider. This slider could enable users to quickly locate images based on their confidence level.
* While the client did not express objections to the general setup discussed for the UI, they indicated a willingness to continue brainstorming potential useful features they would like to incorporate.

**Next Steps**:

* For the remainder of sprint 2, the team will focus on refining the YOLO model for male house finches.
* Create a specific and detailed UI design, including a wireframe for visual comprehension and layout.
* Decide on the tools to use for implementing the UI, considering python libraries or ruby applications.
* Turn UI design into code and implement the user interface according to specifications.
* Include testing of the UI to identify any bugs, usability issues, or other areas for improvement.
* Schedule a follow-up meeting on March 1 to review progress, any new feature requests, and to discuss subsequent actions.