Universidad de las Américas Puebla

Progressing in the Project PT 4

Ximena Vazquez Mellado Flores, 171319

Alejandro Sánchez González, 167299

Humberto Alejandro Zepeda González, 174653

Mobile App Development - LIS4012

Spring 2025

March 27th, 2025

Ximena:

I've overseen the organizing and uploading of the GitHub's files to have a better documentation of our project and make it easier for us to find any information when needed.

https://github.com/ximenavm7/fruit-lens-app/tree/main/documentation

Alejandro González:

I am making progress on the Fruit-lens app by investigating how to integrate the 'fruits-quality-jhcct' model from Roboflow Universe (https://universe.roboflow.com/bingjun/fruits-quality-jhcct/model/1) into the app itself. I'm currently exploring the best way to connect the model to the app's camera so it can analyze fruit photos in real time. At the same time, I'm working on training the model to improve its accuracy by adding my own fruit images and adjusting it to better recognize the specific quality traits I need, like spotting subtle signs of ripeness or decay. My next steps are to test the setup with a few sample images and refine the training process to ensure the model performs reliably for the app.

Humberto Zepeda:

The camera access is now ready, since the previous library to manage camera access is now deprecated, I chose to use a new library called "React Native Camera Vision" which is still maintained and has a lot more features than its predecessor. However, we only need camera access, but we need to do it as efficient as possible. Not only in terms of speed but also in terms of computational resources and battery use. It is the main feature of our app so we need to make sure that it works very well, that is what i am working on.