CALIFORNIA STATE SCIENCE FAIR
2016 PROJECT SUMMARY

Name(s)

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Project Number

S1401

Project Title

Tejon Conservancy Oak Identification App

Abstract

Objectives/Goals

We are making an app testing the accuracy and possibility of constructing it in a manner that allows newcomers to learn by going through and interacting with the tree as well as a series of options in the app to ultimately come to a conclusion as to what species they are looking at.

Methods/Materials

We took pictures which we then printed and made a physical version of the app, after that we made google forms that replicated the app. We took this info further improving on it to build it in MIT App Inventor 2. After this, we rewrote the flowchart for the app refining it and now are working towards publication.

Results

The app is actually very effective. We had an 88.8% level of accuracy amongst those that we tested on our forms. We believe that number is actually going to be higher since we have multiple versions of the app that are all improving from the previous mistakes.

Conclusions/Discussion

These results show that there are alternate routes that are available to educate people about the environment that they are surrounded by. A significant point behind this is that these people can do it on their own, self sufficiently discovering. In this sense, there is still a process of learning which keeps a sense of discovery and accomplishment. Though it is more appealing to the younger ones in this generation, the app is still available for all who want to explore.

Summary Statement

Identifying trees through an app and testing how accurate it can be.

Help Received

Scott Pipkin, Mr. Brasier