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Overview

- Mobile Application to show previously identified plants, and take pictures of new ones
- Database with a catalog of plants
- Server for image processing and communication with the client side

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Progress

Image Processing

- Background Subtraction
- Boundary Detection
- Shape Based Feature Extraction
- Color Based Feature Extraction
- Texture Based Feature Extraction

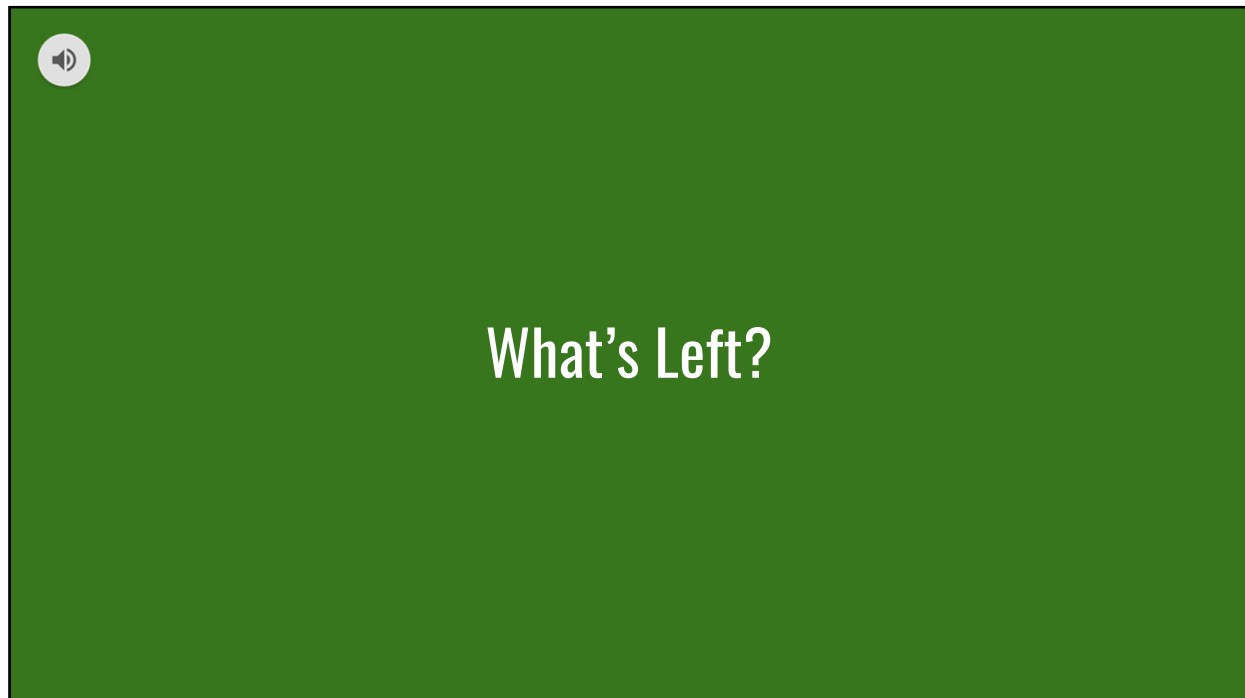
Server

- Implemented
- Successfully receives image to analyze from client side
- Manages image processing data
- Firestore Database successfully connected

Application

- Camera page works - user can take a picture and send to server side of things
- Map using Google Maps API
- List of previous plant locations

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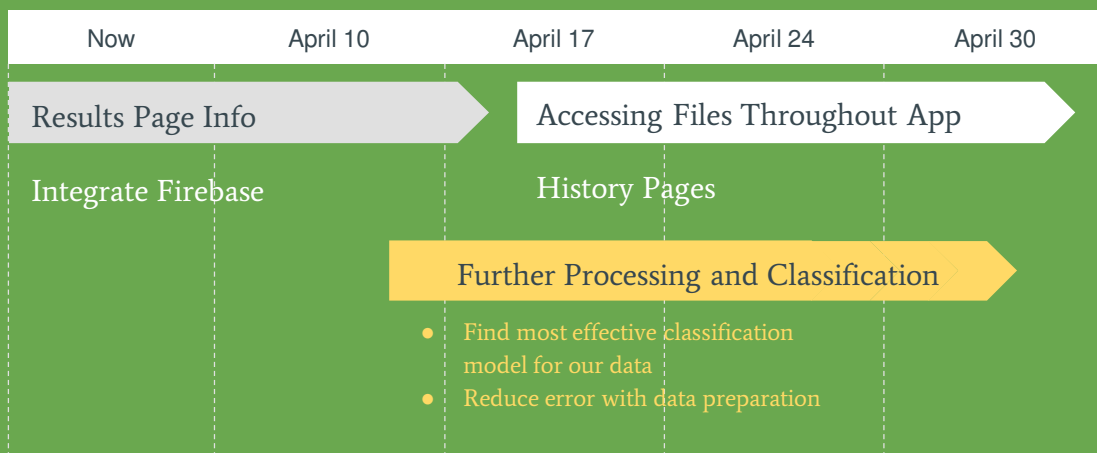
5

A light green rectangular slide with a white speaker icon in the top-left corner. The title "Additional Functionalities" is in white. Below the title are four yellow arrow-shaped boxes pointing right, each containing a category name and a list of bullet points.

Category	Functionalities
Results	<ul style="list-style-type: none">• Display photo of plant within the list• Have server send results data back to client
Server-Client Communication	<ul style="list-style-type: none">• Be able to return results as well as other species information and user information
Classification Model	<ul style="list-style-type: none">• Find most effective classification model for our data• Reduce error with data preparation
Database	<ul style="list-style-type: none">• Store the photo of plants• Store user data as well as associated plant data

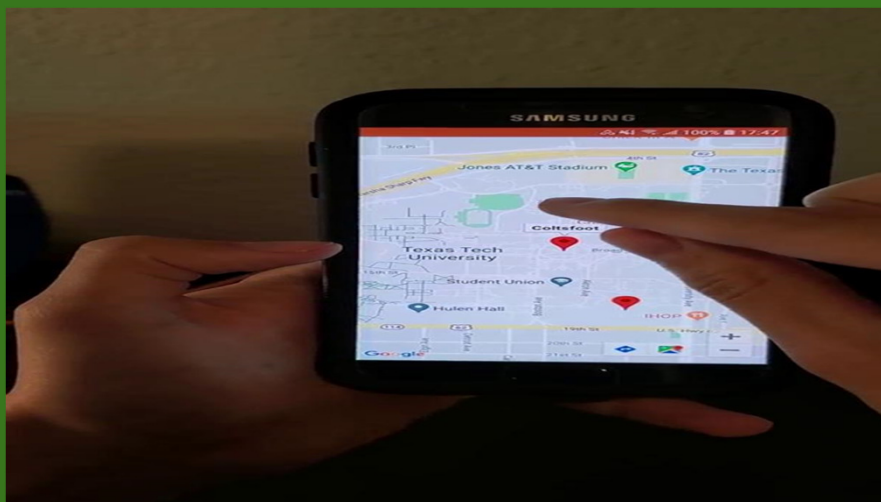
6

Timeline

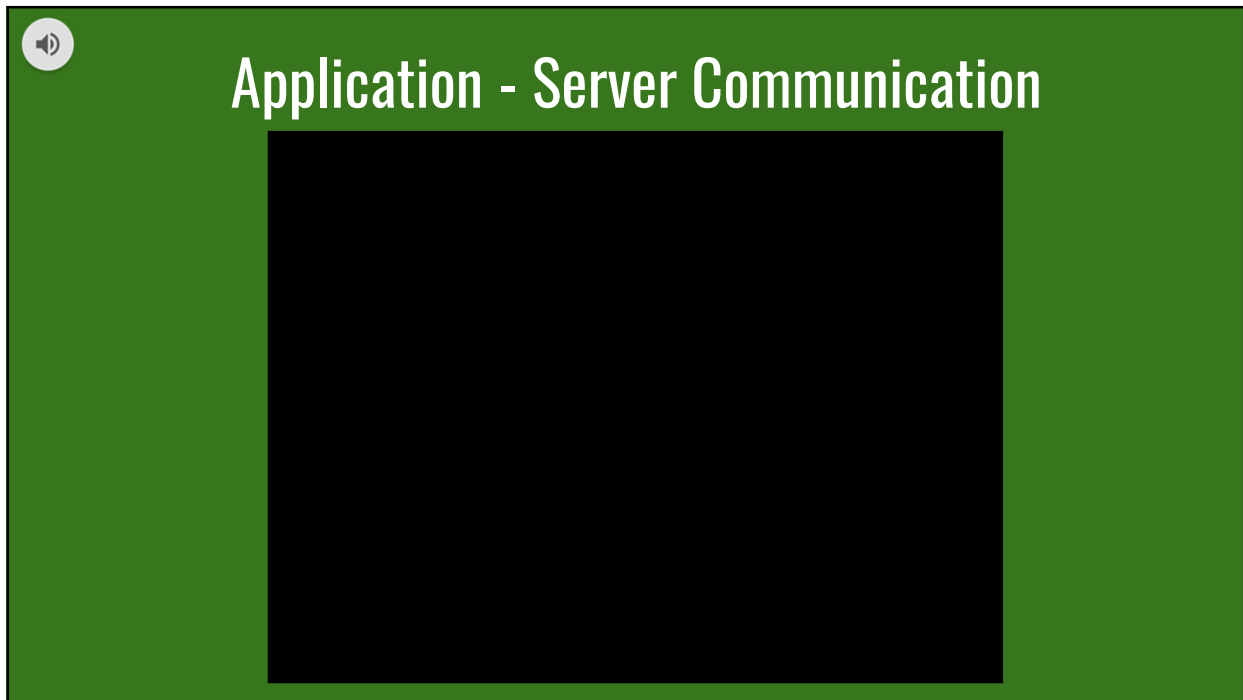


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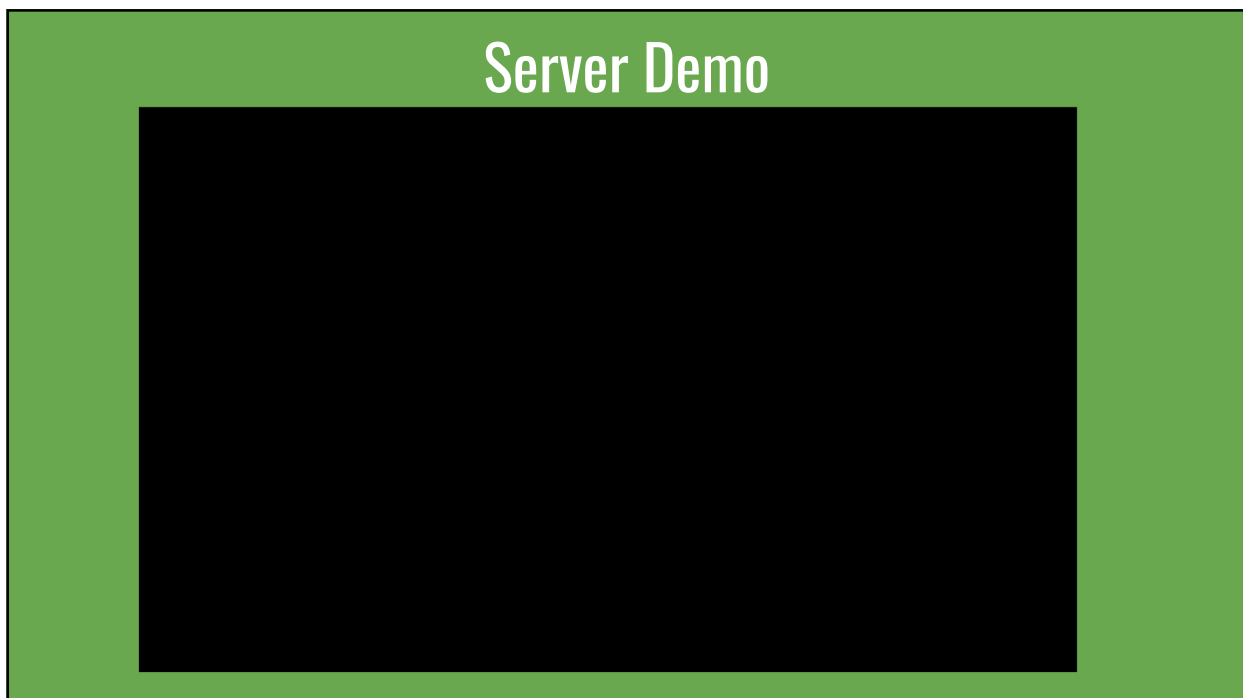
Demo



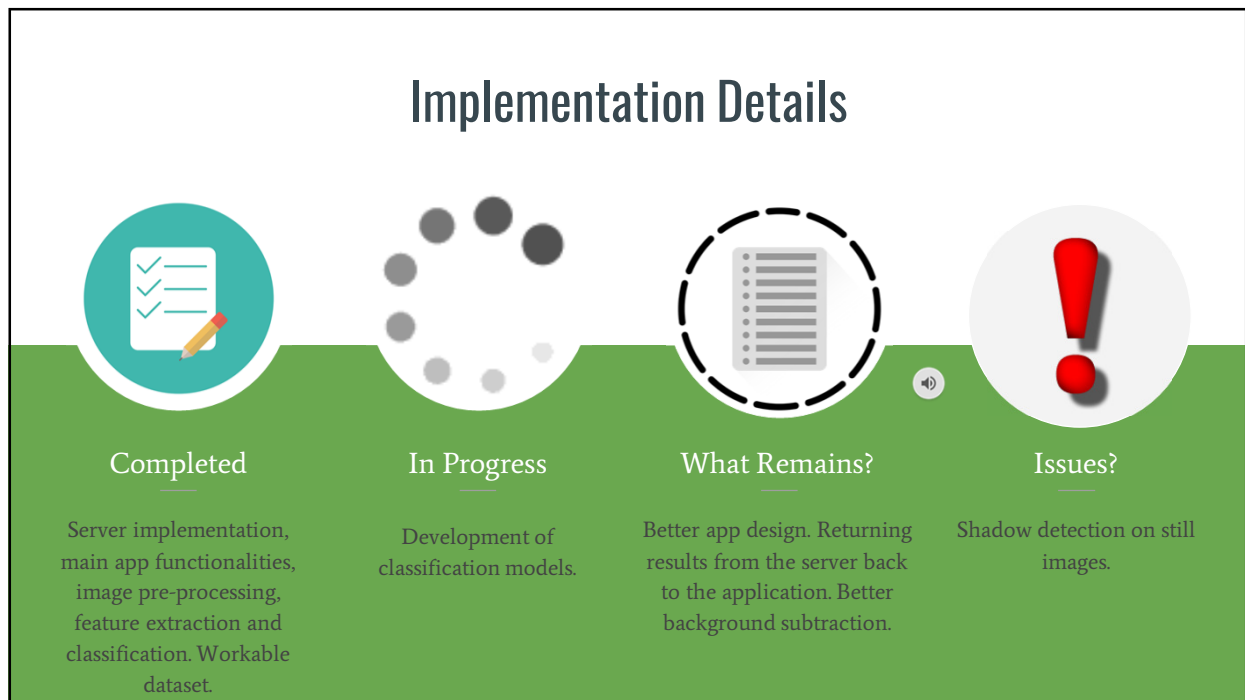
8



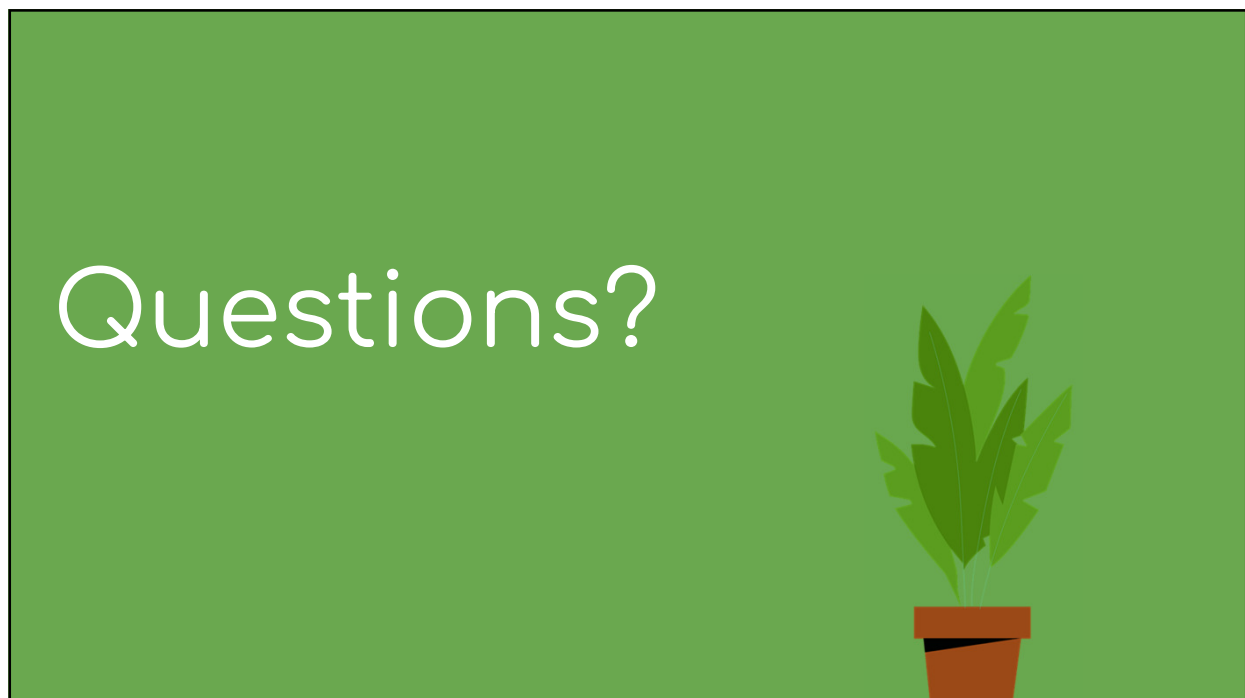
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