

Insect Identification System

Team Tropicana

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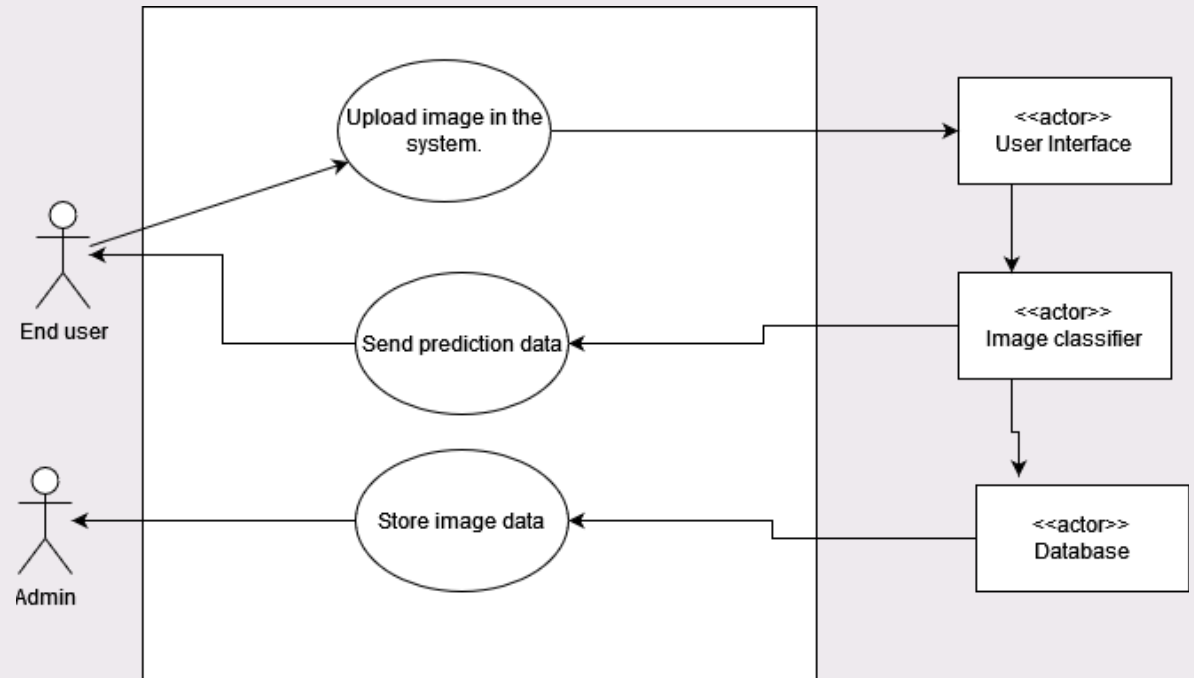
Introduction



An application to identify insects using image processing.



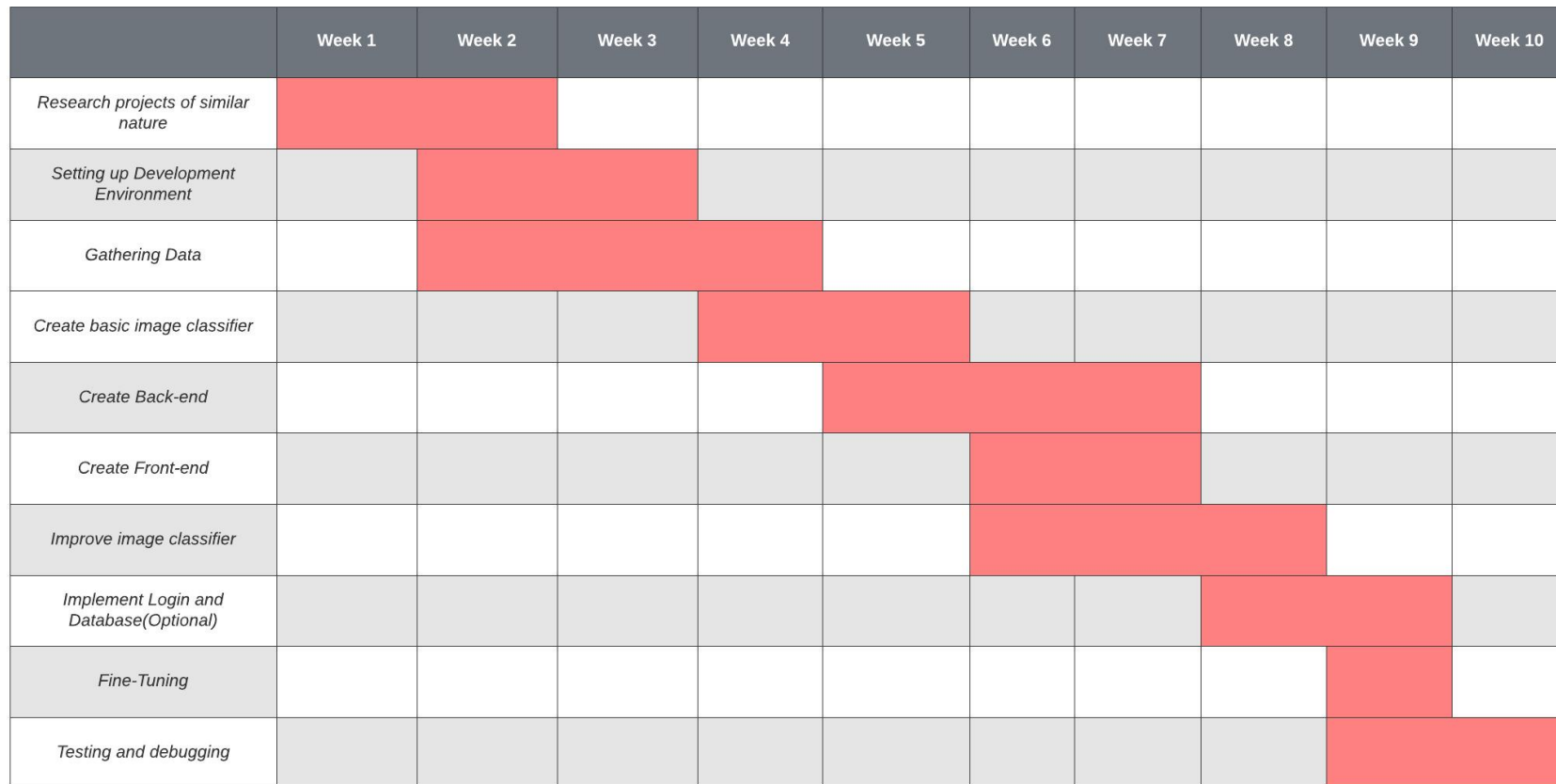
Created using Python.



Gantt Chart

Gantt chart

Ashwin | October 19, 2021



Legend: Ashwin
Rajasankar

Why?

- There are around 900,000 species of insects in the world (80% of world's species).
- Identifying them manually is not an easy task for a person who is not an entomologist or doesn't have prior knowledge about insects.
- Some insects could destroy entire gardens and fields, if left unchecked.



Why?

- Spot the difference



Western conifer seed bug



Kissing bug



Leptoglossus zonatus

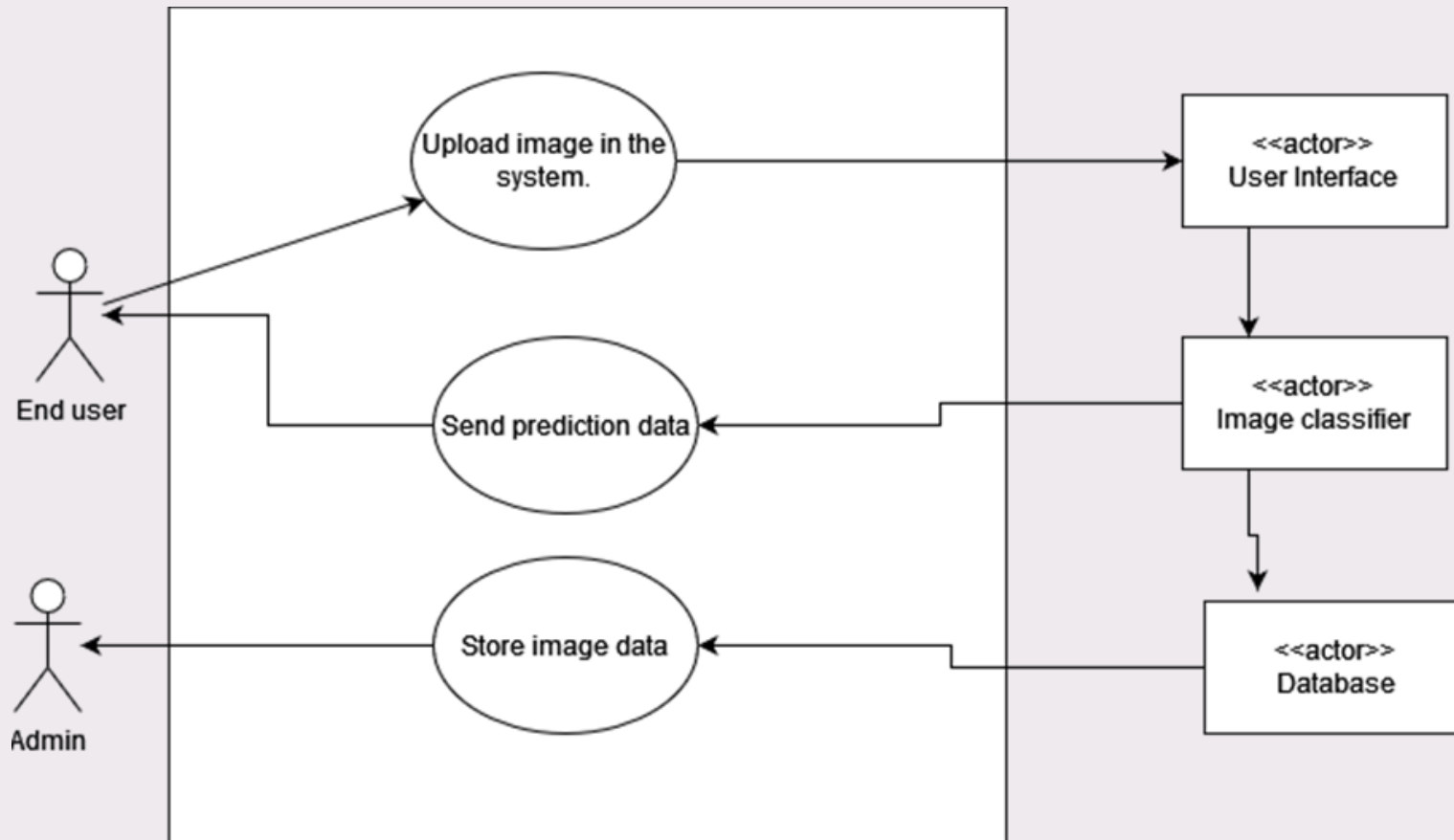


Who?

- The project aims to assist farmers, gardeners, bug enthusiasts and nature lovers who want to find the ID of a bug.



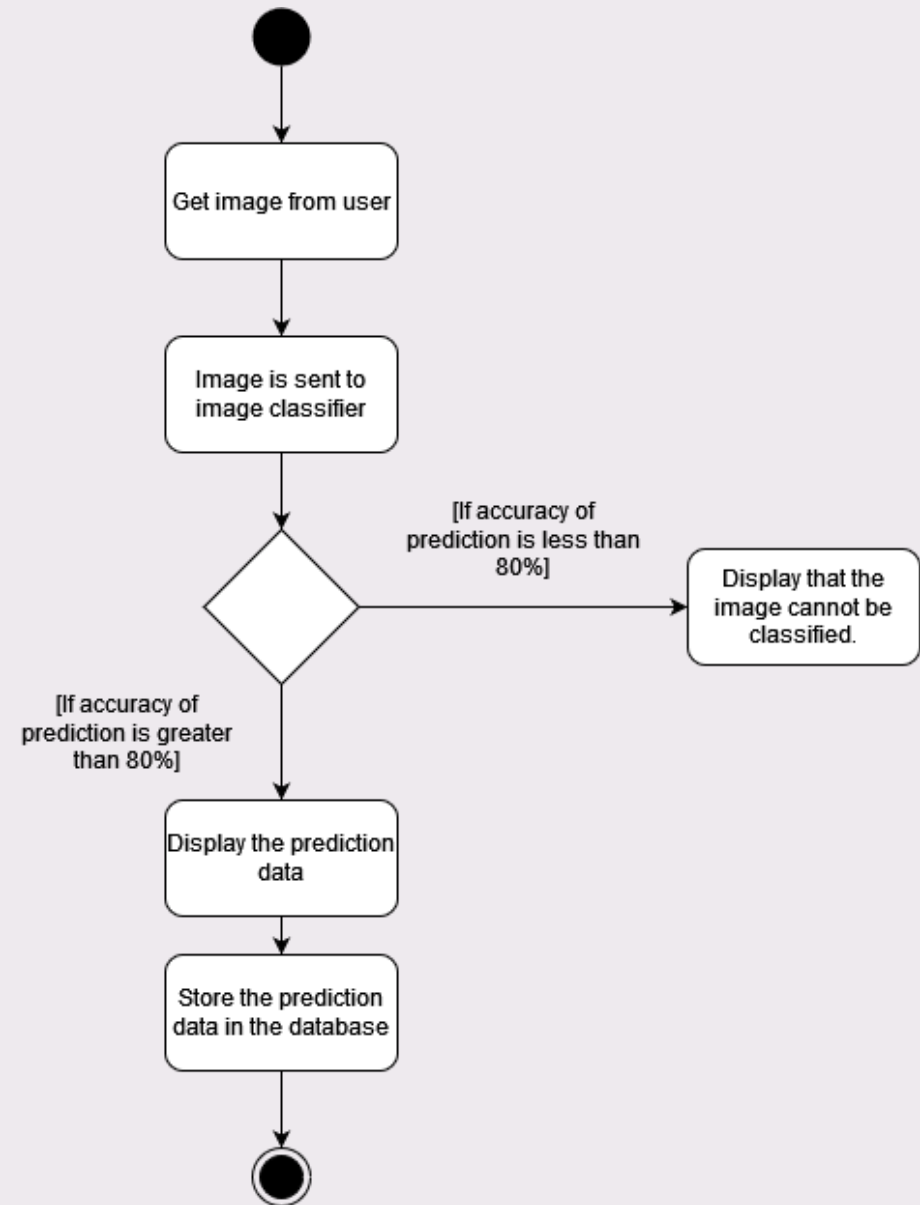
Use Case Diagram



Name: Send Prediction	ID:1	Importance Level: High
Primary Actor: End User	Use Case Type: Essential	
Stake Holders and Interests: End User: Wants the result of the prediction User interface: Wants the image from the user Image Classifier: Wants the image from the user interface Database: Wants prediction data from the classifier Admin: Wants data from the database		
Brief Description:	This use case describes the process of uploading the image and getting back the results	
Trigger: End User uploads an image Type: External		
Relations: Association: End User, Upload Image, Receive prediction data Include: Extend: Generalization:		
Normal Flow of Events: 1. The end user uploads an image to the user interface. 2. The user interface sends the image to the classifier. 3. The classifier sends the prediction data to the user and also stores it in the database.		
Subflows:		
Alternate/Exceptional Flows		

Use Case Description

Activity Diagram



A close-up, low-angle shot of a field of tall, golden-brown grasses. The sun is setting in the upper right corner, creating a bright, warm glow and a lens flare effect. The sky is filled with soft, colorful clouds in shades of orange, pink, and blue. The text "THANK YOU!!" is written in a white, elegant, cursive script across the center of the image.

THANK
YOU!!