

LEAF DETECTION APP- TEAM 7

Draft Form



OUR TASK

We were given the task to implement AI leaf detection code into a user-friendly application. The AI can distinguish between diseased and healthy leaves. The disease is the leaf curl disease. The application is aimed to be deployed in Pakistan where leaf curl disease is common.

Diseased Leaf



Healthy Leaf



REQUIREMENTS AND WORK TRACKING

- Show Trello how we tracked work
- Talk about how user stories helped us gather further requirements
- Usage of GitHub

COMPETITORS

- Show Competitors
- Talk about reviews
- How this helped refine requirements

PROTOTYPES

Low Fidelity Prototype

- Present figma screenshots, all versions of it

High Fidelity Prototype

- Present the android studio design and functionality

SOFTWARE USAGE

Android Studio

- In android studio we used Java as our main coding language
- Along with Java we used XML for the appearance of the pages on the mobile application

Python

- The AI model we were integrating into the application was created in python, this meant we had to use python within the application.

SPRINT PLANS

The sprint plan was essential in ensuring we got tasks done on time, if they weren't implemented within the time period we would fail them and then work on these sprints when we could.

Sprint Plan for Leaf Application	Date Started	Date to be Completed by	Status
Create Communication Channels	31/10/2023	01/11/2023	Pass
Review Brief and take notes	31/10/2023	09/11/2023	Pass
Create Trello User Stories	06/11/2023	20/11/2023	Pass
Familiarise ourselves with raw leaf detection code	15/11/2023	22/11/2023	Pass
Establish Project Framework	18/11/2023	02/12/2023	Pass
Create Figma Prototype Low-Fidelity	02/12/2023	15/12/2023	Pass
Create Android Studio Prototype High-Fidelity	15/12/2023	09/01/2024	Pass
Login Page API working	09/01/2024	16/01/2024	Pass
Discuss with Asiya Prototype changes	16/01/2024	23/01/2024	Pass
Improve the design of android studio	23/01/2024	30/01/2024	Pass
Add Java code to make settings work	30/01/2024	07/02/2023	Pass
Add java code to make the profile page work	30/01/2024	08/02/2023	Pass
Add camera functions	28/02/2023	03/03/2023	Pass
Add photo library storage functionality	03/03/2023	05/03/2023	Pass
Implement AI Code	05/03/2024	07/03/2024	Fail
Store the AI result	07/03/2024	10/03/2024	Fail
Display the AI result	10/03/2024	13/03/2024	Fail
User Testing	14/03/2024	14/04/2024	Pass

COMMUNICATION CHANNELS

- Show Evidence
- How this helped
- Which channels
- Channels for just team members and channels for client and team.
- Usage of minutes?

PROBLEMS AND SOLUTIONS

Possible talking points:

- Python implementation
- AI difficulties
- CameraX implementation
- Urdu Translation

LEGAL, SOCIAL, ETHICAL AND PROFESSIONAL STANDARDS

This may need to be separated into 4 different slides.

This slide could be used to introduce the importance of LSEP.

THE FINAL PRODUCT

Show case of the final product in android studio

THANK YOU FOR WATCHING

Please feel free to ask any questions.