



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

TechCapital
MYRO

INDUSTRIAL TRAINING PRESENTATION

GOHIJAU APPLICATION

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COMPANY SUPERVISOR : MR. IMRAN BIN ISHKANDAR

INTRODUCTION

Introduction to Company



TechCapital MyRo Sdn. Bhd. was founded in 2015, headquartered in Bangi, Selangor, Malaysia.



Specializes in Industry 4.0 (IR4.0) solutions, including robotics, IoT, AI, and big data.



Focuses on digital transformation, smart manufacturing, automation, and digitalization.



Offers services such as digital strategy consultation and training programs.

Core Business

01

Provides digital transformation and automation solutions for operational efficiency.

02

Focuses on smart manufacturing and robotics to support Industry 4.0 transitions.


03

Offers training programs for skill development in a technologically advanced environment.

04

Uses Odoo ERP system to optimize internal processes and enhance productivity.

Official Website




Products & Services Careers Gallery

Yusra Nadatul Alyeea Bi... ▾

A MEMBER OF MALAYSIA ROBOTICS & AUTOMATION SOCIETY

A BUSINESS PARTNER TO ODOO ENTERPRISE EDITION SOFTWARE



Company Background

MYRO was established in 2015 with a vision to establish as a global player in preparing **the direction and activities of IR4.0 on Human Capital Development and Modernization of Manufacturing and Services companies** under the platform of Digitalization, Smart Manufacturing and Robotics initiative.

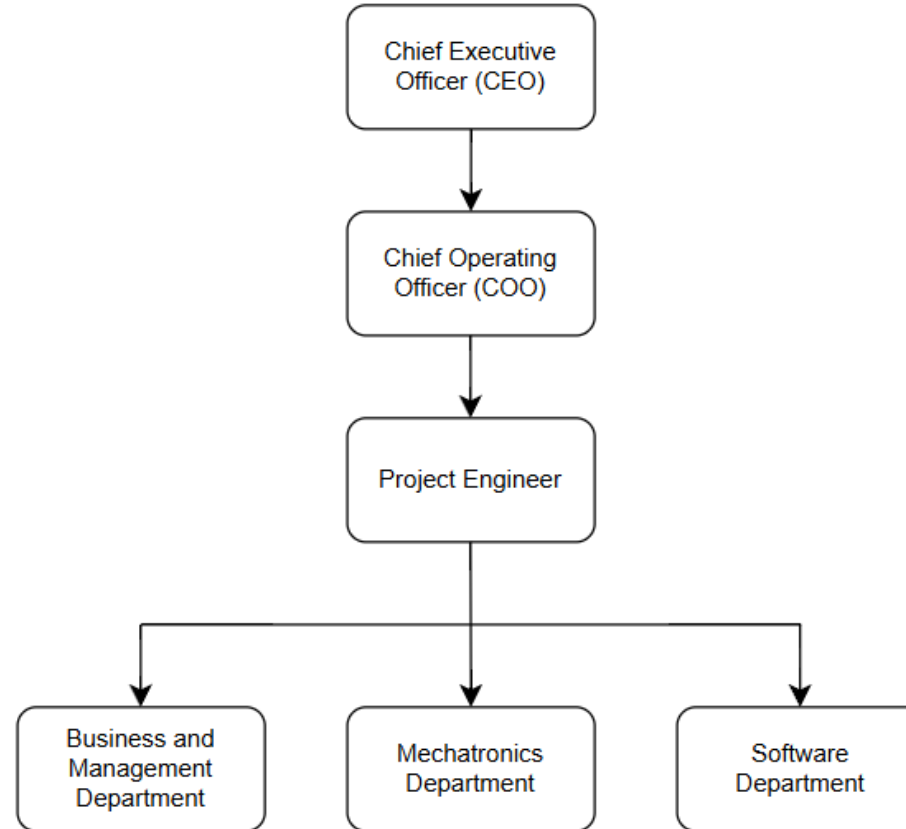
Total Number of Staff and Departments

Core team: CEO, COO, and Project Engineer.

Three main departments:

- 01** Business and Management
- 02** Mechatronics
- 03** Software

Organizational Structure



Software Department

- Provides industrial training for Computer Science students.
- Develops and maintains user-friendly, efficient applications.
- Interns gain real-world experience and collaborate on problem-solving.

Planned Training Program

- Internship duration: 22 weeks
(9 September 2024 – 7 February 2025)

Task Name/Week	September 2024 - February 2025																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Report Duty																						
Study on Odoo																						
Software Installation																						
Study on Flutter																						
Application Development and Deployment																						

SPECIFIC DETAILS ON PROJECTS OR TRAINING

Introduction

Project

Development and improvement of GoHijau application UI/UX.

Focus

Full-stack development (front-end and back-end tasks).

Objective

Equip the intern with practical skills and knowledge in full stack development.

Objectives

01

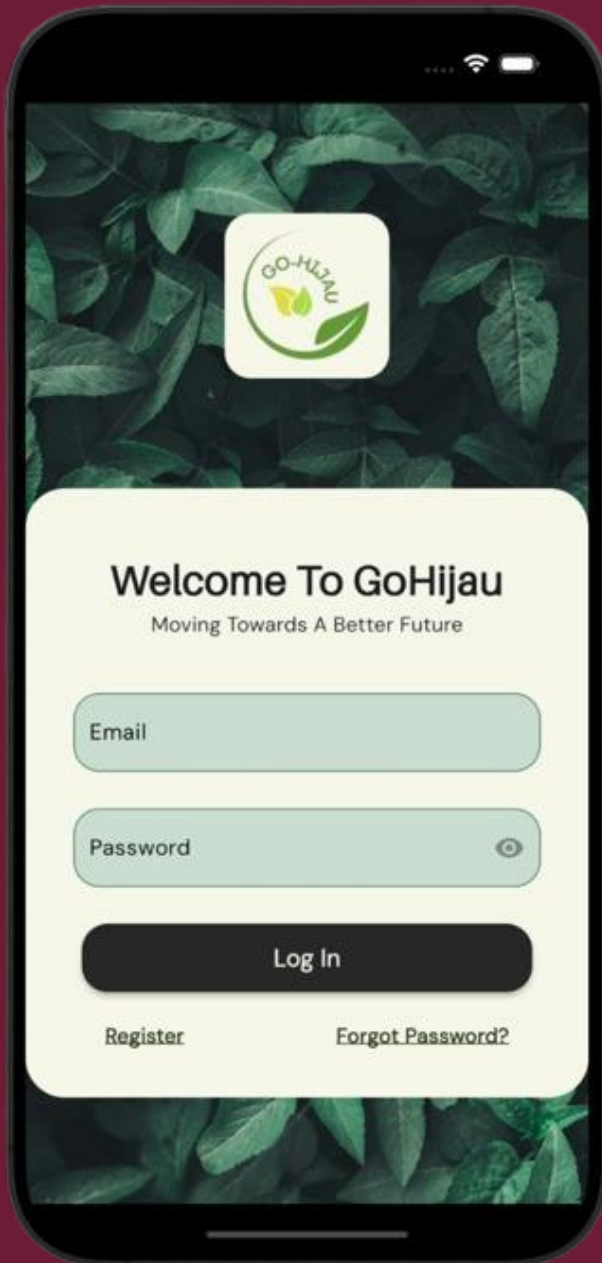
Understand the basic concepts of Dart and Flutter.

02

Improve the UI/UX of the application.

03

Fix reported issues and enhance functionality.



GoHijau Application

- It is designed to facilitate the process by which users can **earn money by depositing used cooking oil into the GoHijau machine.**
- Involve both **customer** and **maintenance** mode logins.
- The application is built using **Flutter** for both the front-end and back-end development.
- Using **Odoo** as a database.

GoHijau Website



Smart Recycling Platform Rider Program Blog Shop Gallery Current Riders

GoHijau Administrator ▾

































Pour used oil and get money instead.

WHAT IS GOHIJAU ?

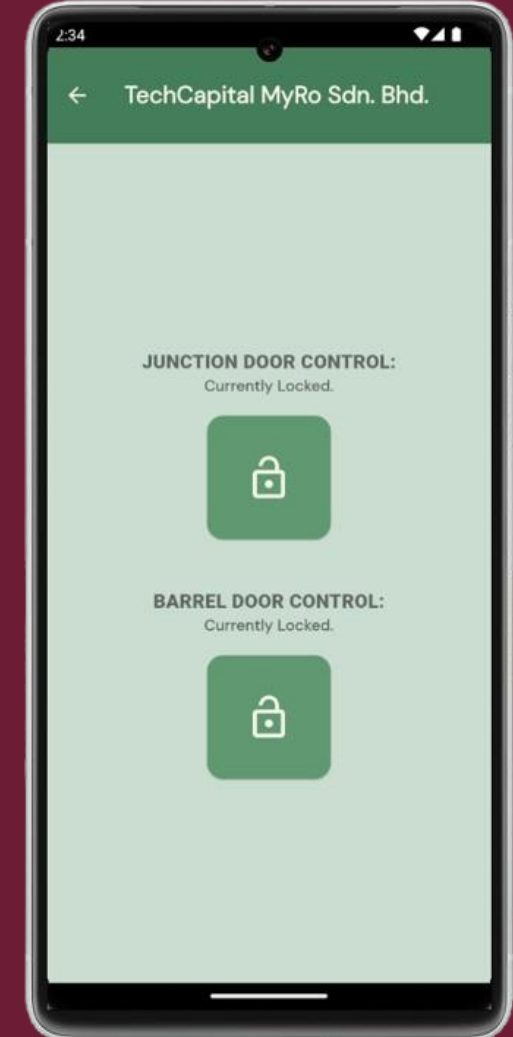
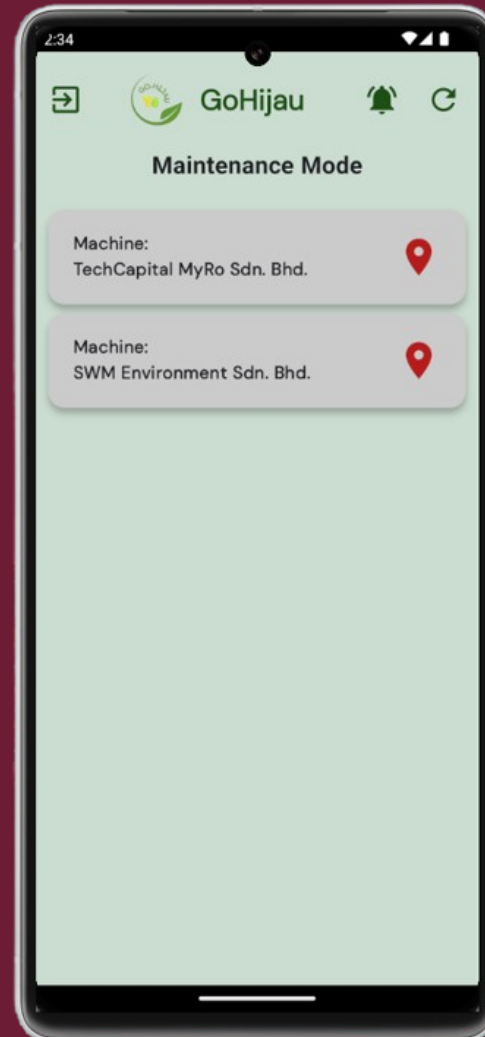
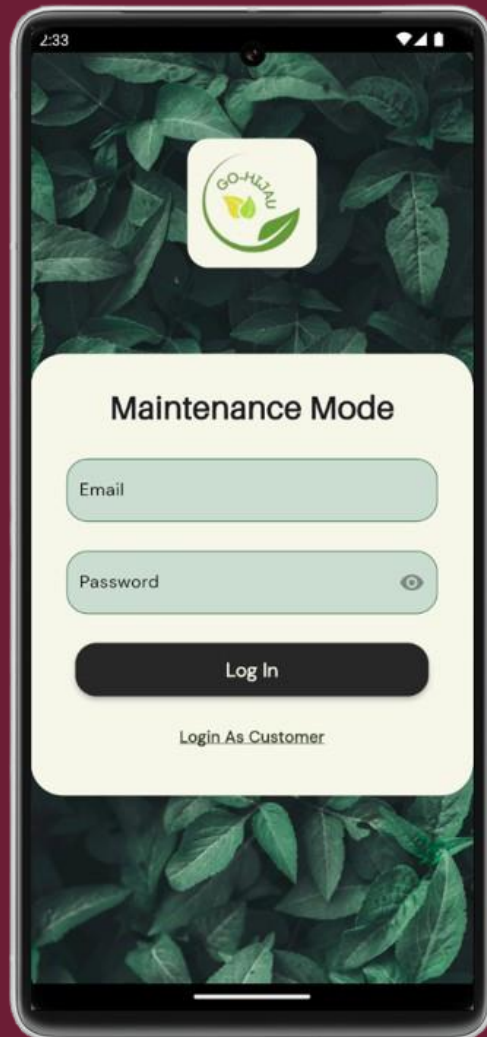
GoHijau is an application focusing on having a better environment by **providing a platform and services** to collect used cooking oil (UCO) produced by community that will also provide some benefits to community.



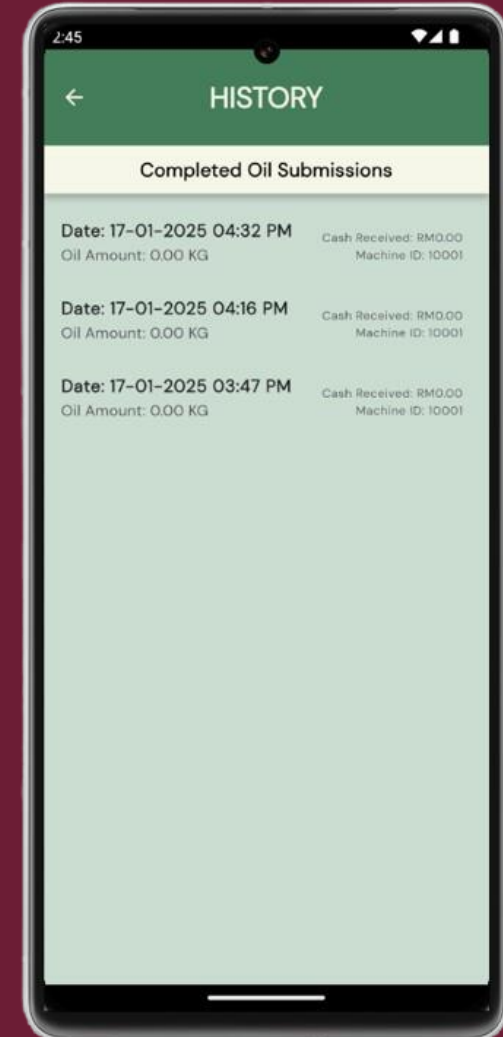
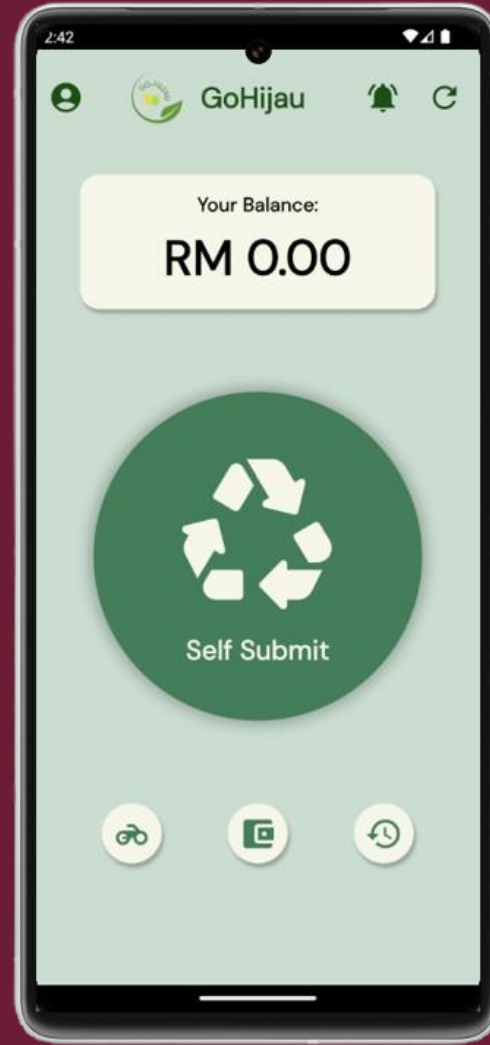
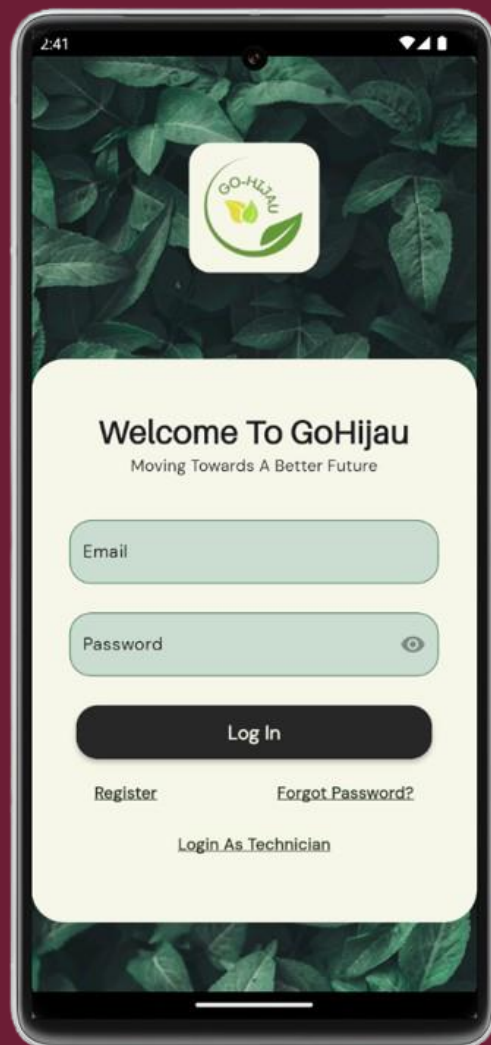
Odoo Database

<div>  Recycling Machine GoHijau Customers KitaRecycle Customers Oil Submissions Balance Withdrawals Notifications Machines </div>						<div>      GoHijau Administrator (gohijau.org) </div>	
Oil Submissions						<div> <input type="text" value="Search..."/> </div>	
<div> <div>NEW </div> <div>  Filters  Group By  Favorites </div> </div>						1-80 / 378  	
<input type="checkbox"/> Created on	Customer's Email	Machine ID	Oil Submission ID	Oil Amount (kg)	Cash Received (RM)		
<input type="checkbox"/> 09/10/2024 16:01:59	admin@admin.com		23 	0.00	0.63		
<input type="checkbox"/> 09/10/2024 16:02:26	admin@admin.com		24 	0.00	0.63		
<input type="checkbox"/> 09/10/2024 16:03:57	admin@admin.com		25 	0.00	0.63		
<input type="checkbox"/> 09/10/2024 16:05:18	admin@admin.com		26 	0.00	0.63		
<input type="checkbox"/> 09/10/2024 16:05:42	admin@admin.com		27 	0.00	0.63		
<input type="checkbox"/> 09/10/2024 16:09:28	admin@admin.com		28 	0.00	0.63		
<input type="checkbox"/> 09/10/2024 16:10:52	admin@admin.com		29 	0.00	0.63		
<input type="checkbox"/> 09/10/2024 16:12:39	test@test.com		30 	0.00	0.63		
<input type="checkbox"/> 09/10/2024 16:17:30	test@test.com		31 	0.00	2.58		
<input type="checkbox"/> 09/10/2024 16:25:20	test@test.com		32 	0.00	2.58		
<input type="checkbox"/> 08/23/2024 10:21:15	test@test.com		2 	0.00	0.63		
<input type="checkbox"/> 08/23/2024 10:26:14	test@test.com		3 	0.00	0.63		
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<input type="checkbox"/> 08/26/2024 16:19:15	test@test.com		10 	0.00	0.63		

GoHijau Maintenance



GoHijau Customer



Hardware Used

Component	Specification
Processor	AMD Ryzen 3 5300U with Radeon Graphics @ 2.60 GHz
RAM	8.00 GB
Input Medium	Mouse, Keyboard
Output Medium	Monitor Screen, Headset

Software Used

Component	Specification
Operating System	Windows 11 Home Single Language
Programming Language	Dart, Flutter
Development Tools	VSCode User Setup (VSCode 1.93.0)
	Android Studio 2024.1.2.12 for Windows

Duration

- Time to complete all tasks: 22 weeks
(9 September 2024 – 7 February 2025)

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Theoretical and Practical Knowledge

Theoretical

- Full-stack development concepts.
- Dart and Flutter basics, Odoo database integration.

Practical

- UI enhancement, error debugging, backend integration.
- Developed hands-on problem-solving skills.

Challenges Faced

- 01** Learning Dart and Flutter's unique concept.
- 02** Debugging issues from GitHub repository updates and version mismatches.
- 03** Understanding and effectively using Flutter libraries and packages.

OVERALL INFORMATION OF THE INDUSTRIAL TRAINING

Skill Improvements

Technical Skills

- **Installed and configured tools** such as VSCode and Android Studio.
- **Debugging code issues.**
- **Using GitHub for version control** (pull/push code).

Programming Skills

- **Developed expertised in Dart and Flutter** for cross-platform application development.
- **Writing efficient and maintainable code.**
- **Creating responsive and aesthetic UI** with Flutter widgets.

Soft Skills

- **Effective communication** in interacting with team members, supervisors, and clients.
- **Problem solving** by applying critical thinking and innovative solutions to challenges.
- **Time management** by handling multiple tasks under pressure with tight deadlines.

Reference Materials

01 GitHub

02 GeeksforGeeks Website

03 Official Flutter Website

Constructive Comments

- **Exposure to diverse projects** in a start-up environment.

CHALLENGES

- **Need for self-motivation and resourcefulness** due to limited supervision.
- **Heavy reliance on peer collaboration** for problem-solving.

OPPORTUNITIES

- Development of **independence, critical thinking, and resilience.**
- Valuable experience in a **dynamic, adaptable work setting.**

CONCLUSION

Achievements

Technical Skills

- Android Studio and VSCode setup.
- Debugging and GitHub repository management.

Programming Skills

- Proficiency in Dart and Flutter.
- Writing clean, maintainable code.
- App development and UI/UX design.

Soft Skills

- Communication through team and client interactions.
- Problem solving and working under pressure.
- Time management for multitasking and meeting deadlines.

Problems and Executions

Challenges

- Limited initial knowledge of Flutter.
- Minimal guidance.
- Balancing tasks under tight deadlines.

Solutions

- Utilized online resources and self-study.
- Adopted proactive problem-solving approaches.
- Practiced task prioritization and productivity techniques.

Opinion and Suggestions

Curriculum Improvement

Incorporate modern tools like Dart and Flutter into academic programs.

Structured Mentorship

Provide trainees with regular feedback and guidance.

University-Industry Collaboration

Enhance industry relevance through guest lectures and workshops.

THANK YOU



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