



PROJECT PROPOSAL

Smart RFID Subscription Box

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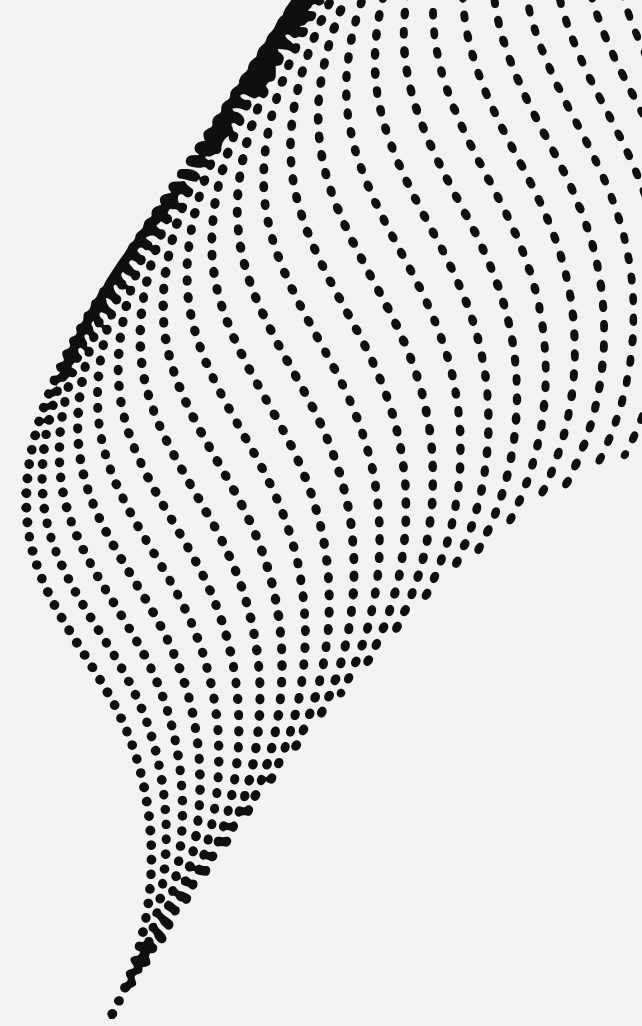


PRODUCT INTRODUCTION

A smart subscription box integrating RFID for automated payments and access.

Key Objectives

- Automated payments to prevent missed renewals
- Improve Inventory tracking with real-time updates
- Enhance customer personalization and sustainability





PROBLEM STATEMENT

1. Manual Payment Management

Customers forget to renew , causing service interruptions

2. Inefficient Inventory Tracking

Overstocking or shortages due to manual stock monitoring

3. Lack of Personalization

Customers receive unwanted items

4. Environmental Waste

Excess packaging and unwanted products



PROJECT OBJECTIVES

- Implement RFID for Automated Payments
 - No manual renewals , smooth transactions .

- Allow Users to Pick Only Needed Items
 - Reduce waste and increase satisfaction

- Improve Logistics and Reduce Waste
 - Real-Time stock monitoring and demand forecasting



PROJECT SCOPE

SUBSCRIPTION BOX

RFID scanner with
real-time item
detection.

DIGITAL INVENTORY SYSTEM

Automatically updates
stock levels.

SECURE RFID PAYMENT INTEGRATION

Automatic billing when
item is taken.



PROJECT TIMELINE

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- Week 1 - Research RFID Technology
 - Week 2 - Finalize Product Design
 - Week 3 - Prototype Development
 - Week 4 - Hardware Integration
 - Week 5 - Testing , Security Checks , System Refinements

Task Allocation

Wendy Chia
- Overall
Coordination
and Supervising

Project
Leader

Research and
Documentation

Yong Chin Ting
Khoo Xin Yi

Lim Wei Heng

Hardware
Setup

Software and
Tech Support

Ng Jian Ming

Jane Ooi

Budget and
Cost Analysis

Presentation
and Design

Lim Zhi Yi
Stanley Tan

Budget Allocation Breakdown

Electronic Magnetic Lock 12V - RM 30

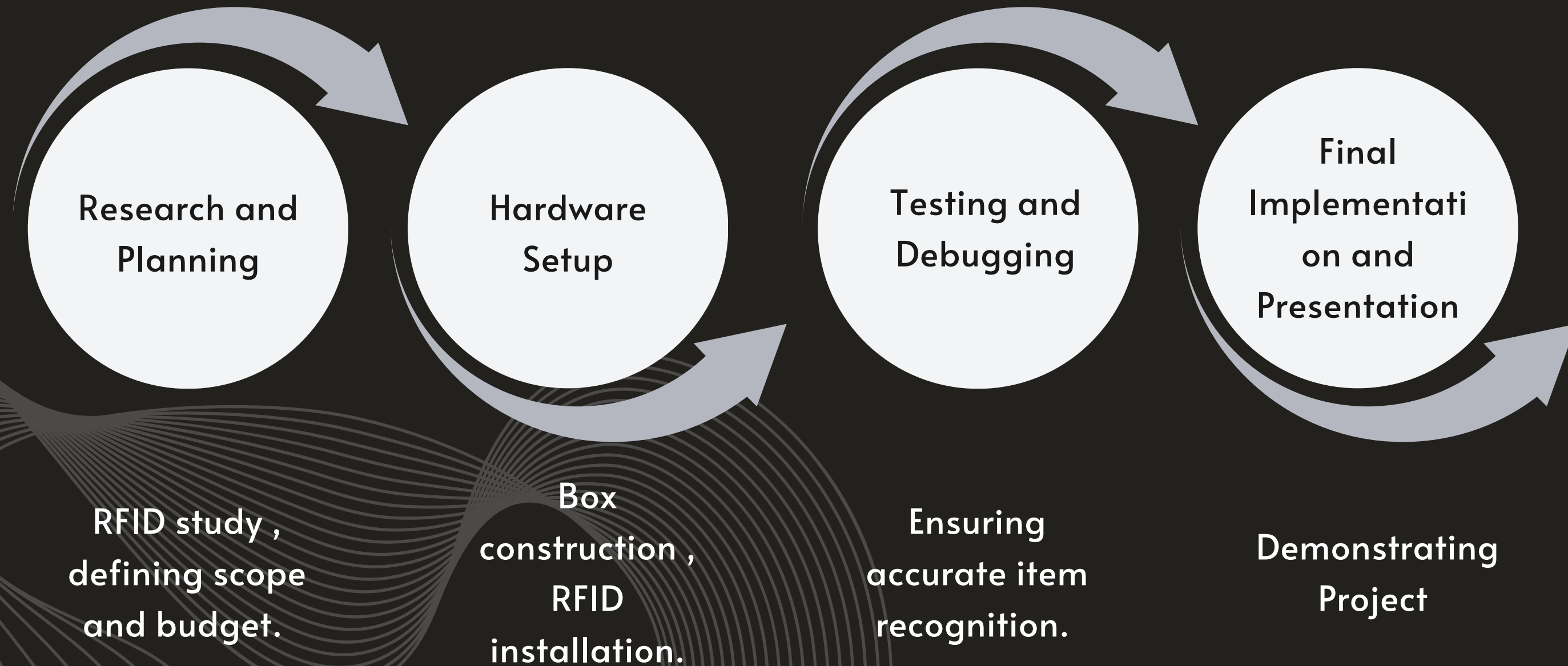
Power Supply 12V 5A - RM 18

MFRC522 RFID Card Reader - RM 12

Relay Module - RM 10

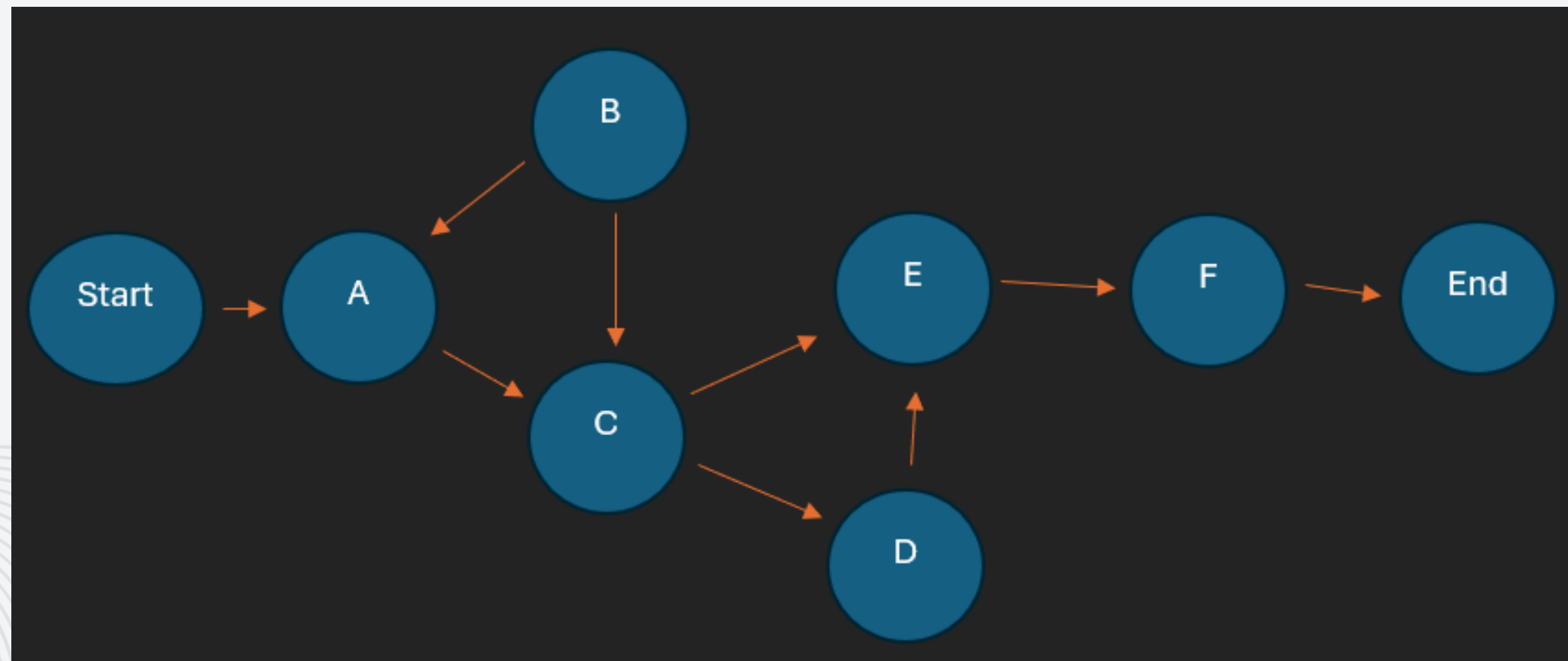


Work Breakdown Structure



Project Network Diagram

Activity	Description	Predecessor	Duration
A	Research RFID Technology	-	1 week
B	Define project scope and budget	A	2 days
C	Box assembly and RFID installation	A, B	5 days
D	Develop RFID Payment System	C	2 weeks
E	Run tests and debug	C, D	1 week
F	Demonstrate project	E	1 day



RESOURCES AND CONCLUSION

HARDWARE : RFID SCANNER , NFC CARDS ,
MICROCONTROLLER , POWER SUPPLY

SOFTWARE : RFID INTEGRATION SOFTWARE FOR
CLOUD & PAYMENT LINKING.

FINAL SUMMARY

- SECURE, AUTOMATED PAYMENT & INVENTORY SYSTEM.
- IMPROVED USER EXPERIENCE AND REDUCED WASTE.
- A SUSTAINABLE, EFFICIENT SOLUTION FOR SUBSCRIPTION SERVICES.

**Thanks for your
time and
attention!**