POS SYSTEM FOR SMALL ENTREPRENEUR

FYP PRESENTATION 1123

Presented by :

MUHAMMAD IDHAM BIN MUHAMMAD ZAINI

Supervisor :

WAN NOR ASNIDA BINTI JUSOH

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"STOP DREAMING AND START DOING"

INTRODUCTION

A small food business called Satay Pandan wants to become more efficient by putting in a custom-built Point of Sale (POS) system. The owner, Muhammad Fairus bin Duladim, is leading this effort to make things run more smoothly at the small satay stalls. To meet the specific needs of small businesses like Satay Pandan, the project focuses on making it easier to handle inventory and make sales. It's not just about technology; they need to find real-world answers to the problems they face in the market right now.

PROBLEM STATEMENT

Inefficient Operational Processes

Satay Pandan's current manual inventory management and sales processing methods at its small stalls are prone to errors in tracking inventory.

O1

O2

Limited Scalability and Growth

The lack of a point-of-sale (POS) system designed specifically for small setups like Satay Pandan's stalls is limiting their scalability. This hampers their ability to meet increasing demand and explore opportunities for business expansion.

PROJECT OBJECTIVES

01

TO SIMPLIFY INVENTORY MANAGEMENT AND SALES FOR SATAY PANDAN

to reduce the chances of encountering inventory tracking issues and facilitate easy sales reconciliation.

02

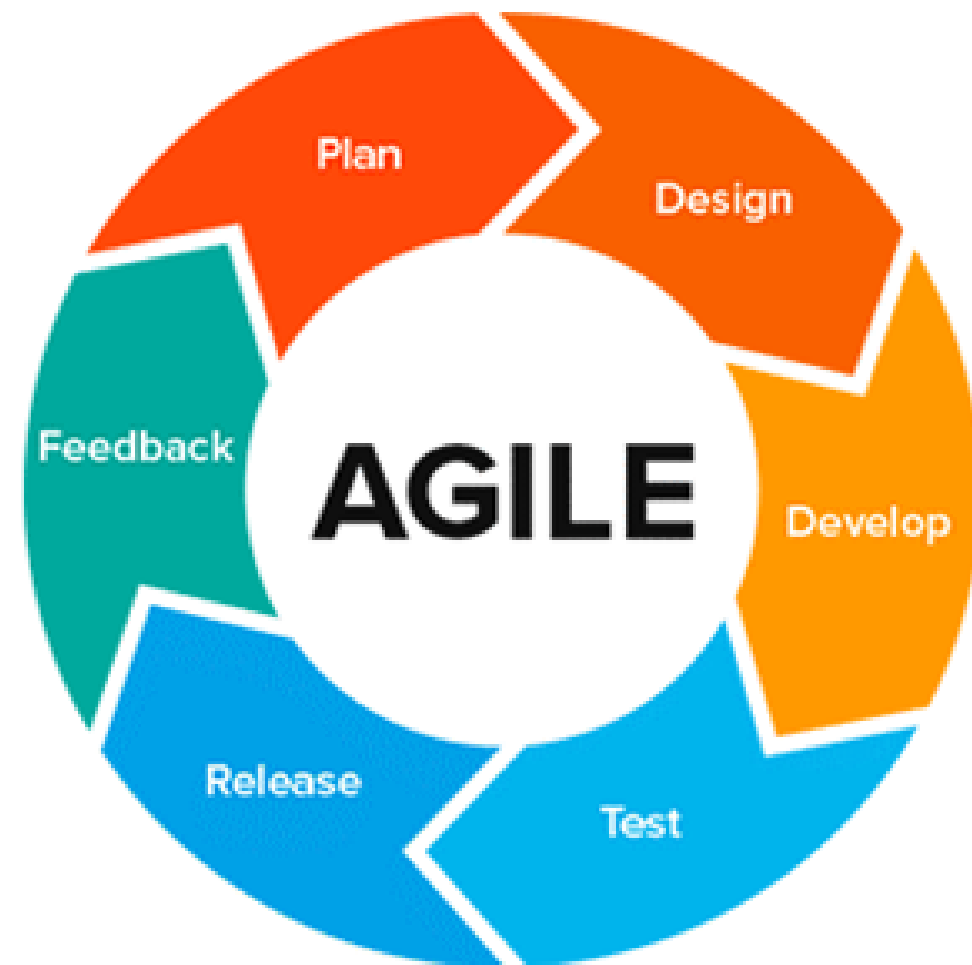### TO STREAMLINED WEB APP FOR SATAY PANDAN

This effort will enable Satay Pandan to efficiently serve a growing customer base and lay the foundation for future business success.

PROJECT METHODOLOGY

Why Choose Agile?

We chose the Agile methodology for our project because it's flexible and works well for small businesses like Satay Pandan. Agile lets us adjust quickly to any changes that come up. This means we can build a POS system that fits exactly what Satay Pandan needs, even if those needs change over time. By breaking the project into smaller tasks and working closely with Satay Pandan, we can make sure everyone stays on the same page and gets the system they want. Overall, Agile helps us work efficiently and deliver a great product for Satay Pandan.

LITERATURE REVIEW

CAFE BILLING SYSTEM

The café billing system is a user-friendly web-based tool for managing food orders. It allows users to easily save, edit, and remove products. Admins can generate daily sales reports for insights into invoices. The system reduces customer wait times, enhancing their experience. Its simple design is accessible to both merchants and customers, simplifying the ordering process.
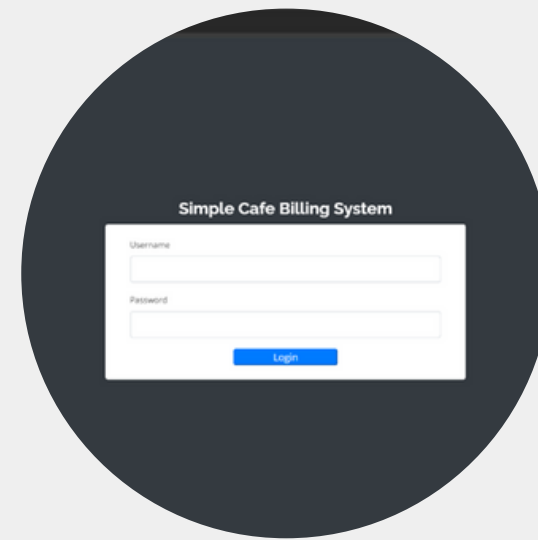

COFFEE SHOP CASHIERING

The coffee shop cashiering system is a web application designed to streamline sales transactions for coffee shop businesses. Users can store, manage, and retrieve sales data easily. Access to the system is restricted to coffee shop management, who must log in with valid credentials. The system offers user-friendly functionalities and generates daily sales reports and printable receipts for convenience.
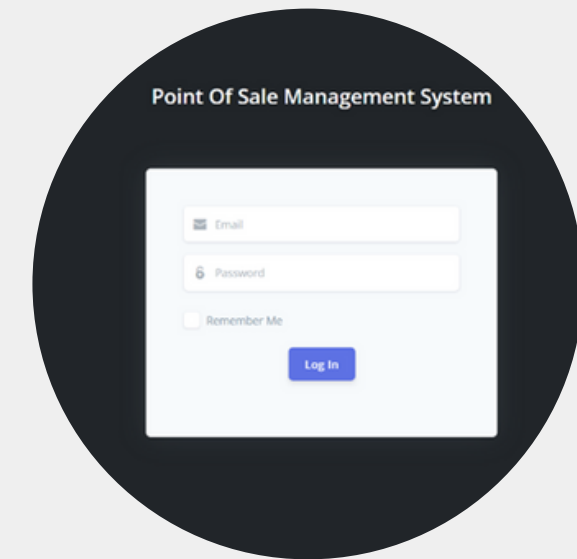
POINT OF SALES MANAGEMENT

The POS Management System is an automated platform for businesses to streamline daily sales transactions. It allows restaurant management to easily store, manage, and retrieve sales data with printable receipts and daily reports. Customers need only register once to browse food options, place orders, and pay, with spending calculated after successful payment. They can choose from various payment methods and update their profiles as needed.
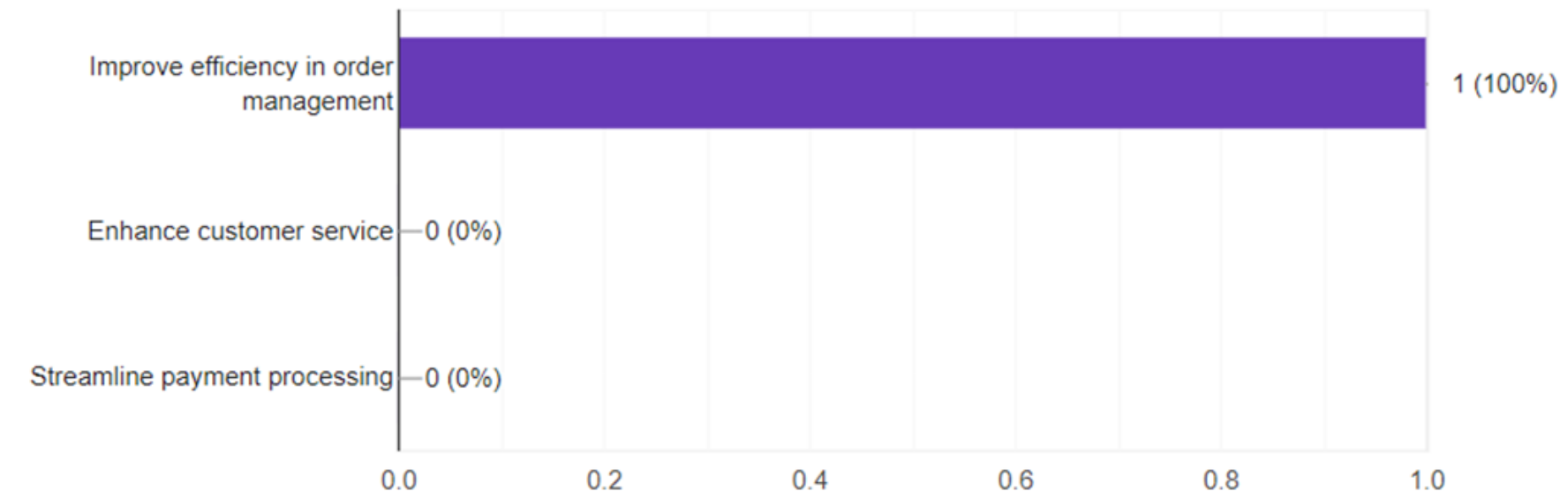
REQUIREMENT DATA GATHERING
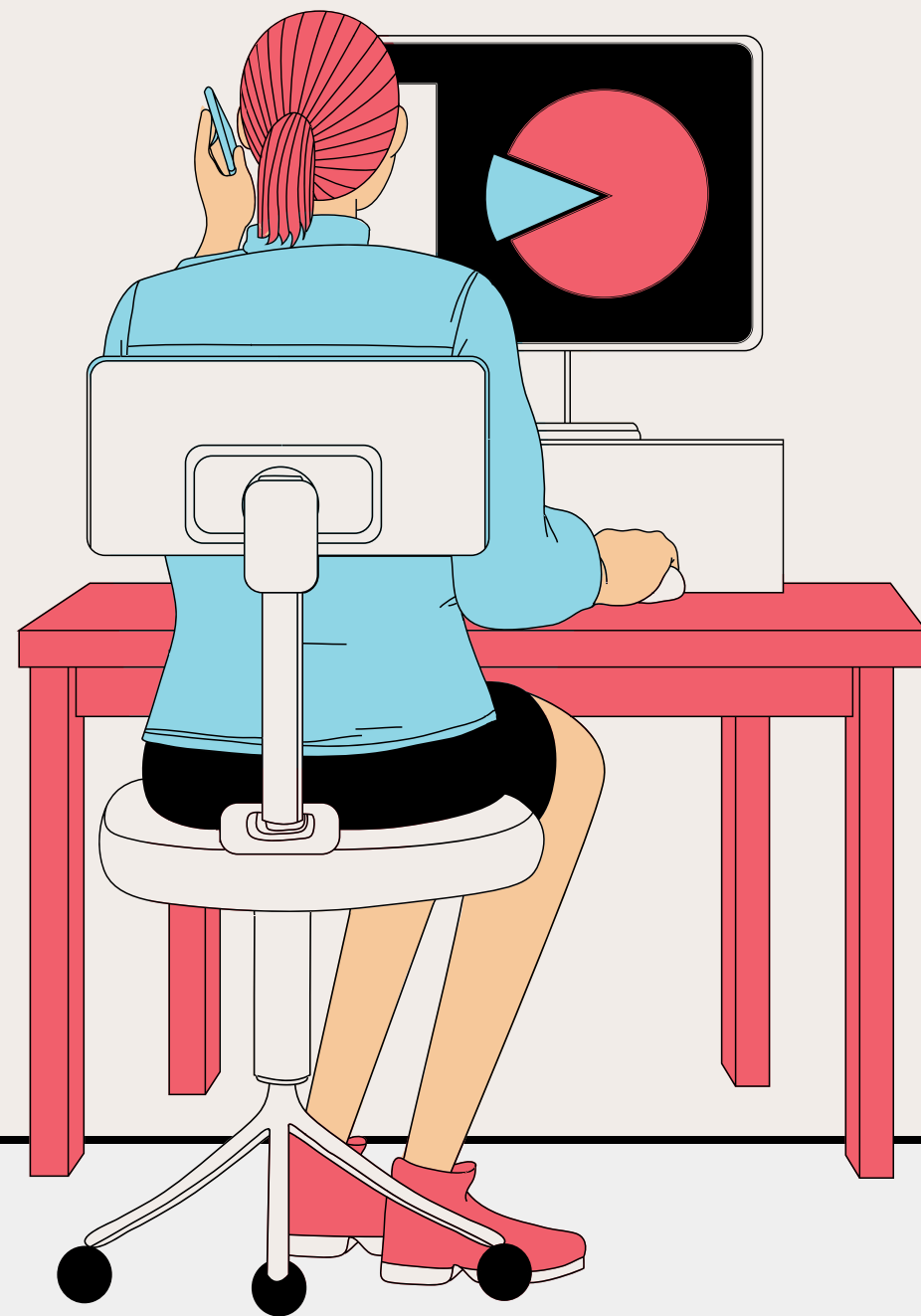
Web Application Development Survey for POS system

1. What motivates you to implement a POS system in your stalls?
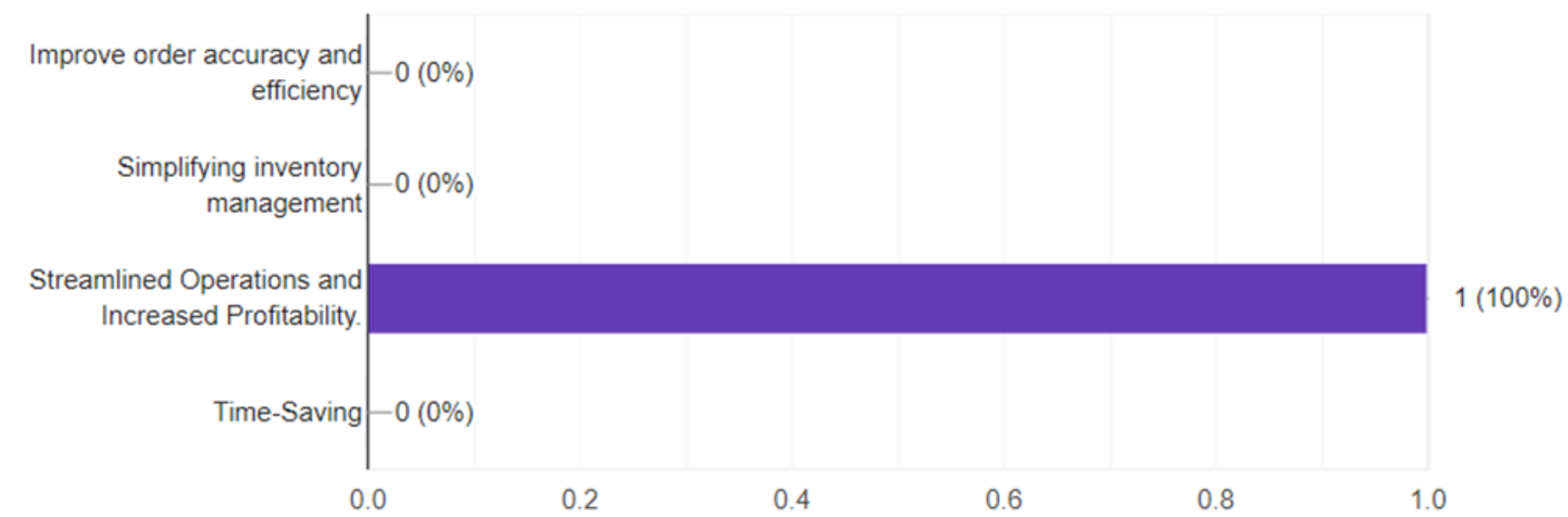
1 response

Improve efficiency in order management	1 (100%)
Enhance customer service	0 (0%)
Streamline payment processing	0 (0%)

Copy

2. How do you imagine the POS system will give benefits to your stall operation in the long term?

1 response

Improve order accuracy and efficiency	0 (0%)
Simplifying inventory management	0 (0%)
Streamlined Operations and Increased Profitability.	1 (100%)
Time-Saving	0 (0%)

Copy

3. What challenges have you experienced in managing orders and payments without a POS system?

Copy

1 response

Difficulty in tracking orders accurately —0 (0%)

Manual handling of cash transactions — 1 (100%)

Limited insights into sales and inventory —0 (0%)

0.0   0.2   0.4   0.6   0.8   1.0
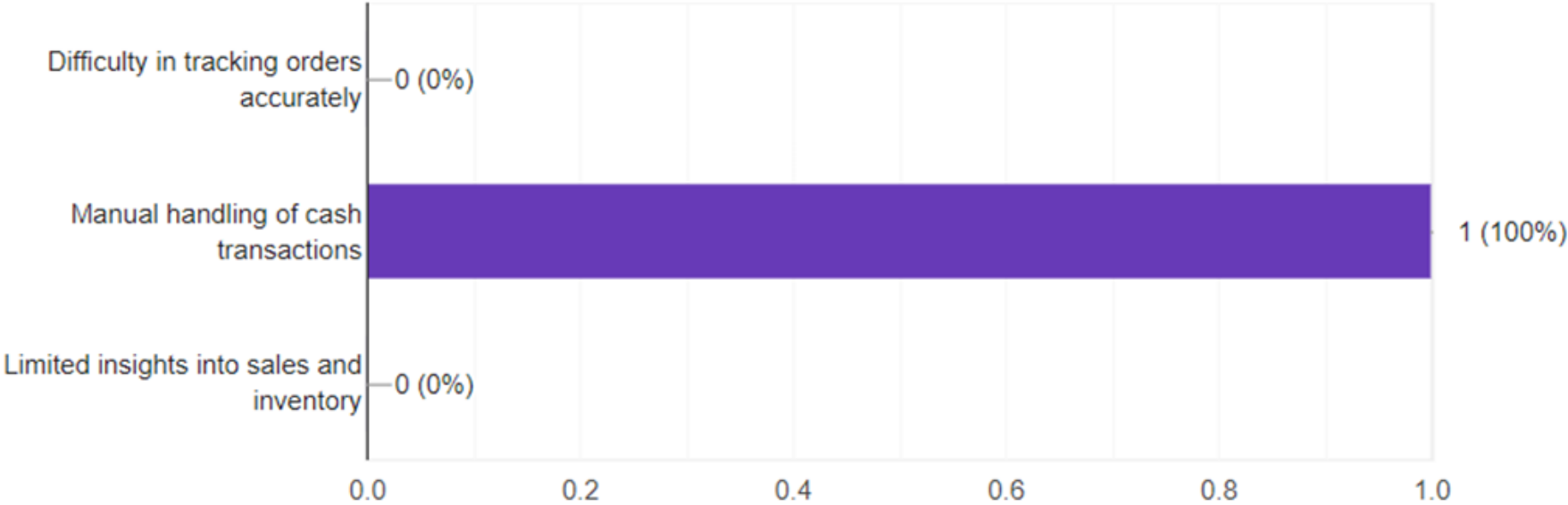
4. How comfortable are you with new technology like POS system for your stall?

Copy

1 response

Very comfortable — 1 (100%)

Comfortable —0 (0%)

Not comfortable —0 (0%)

Not applicable —0 (0%)

0.0   0.2   0.4   0.6   0.8   1.0
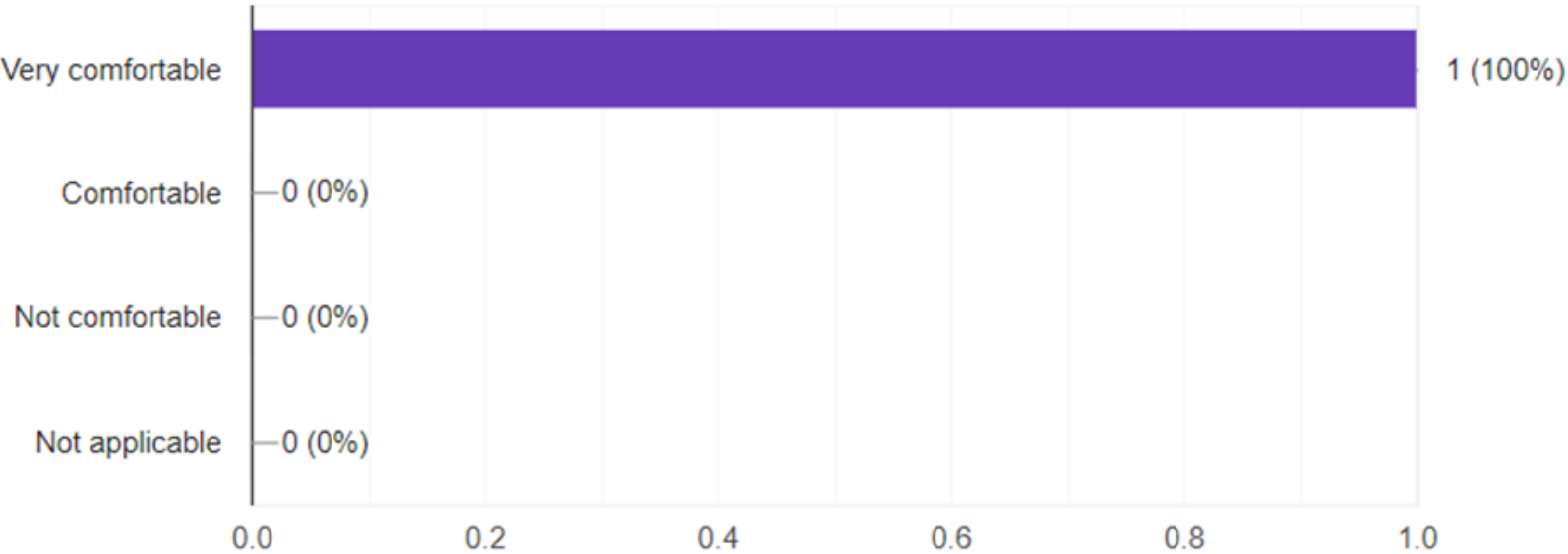
5. Are you familiar with how a POS system works, or is this your first time for your business?
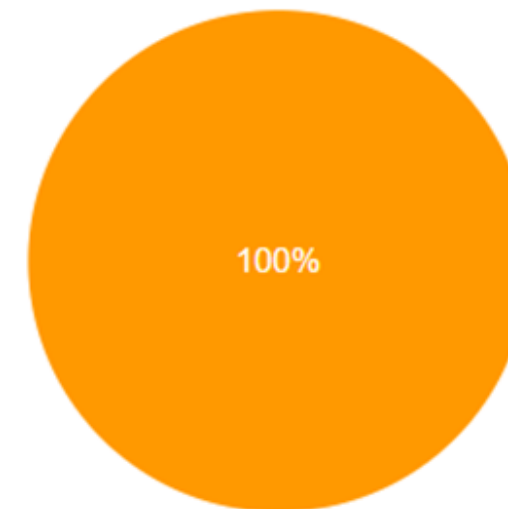
1 response

- Familiarity with POS systems.
- Some knowledge, but limited experience.
- Completely new to POS systems.
- Not sure

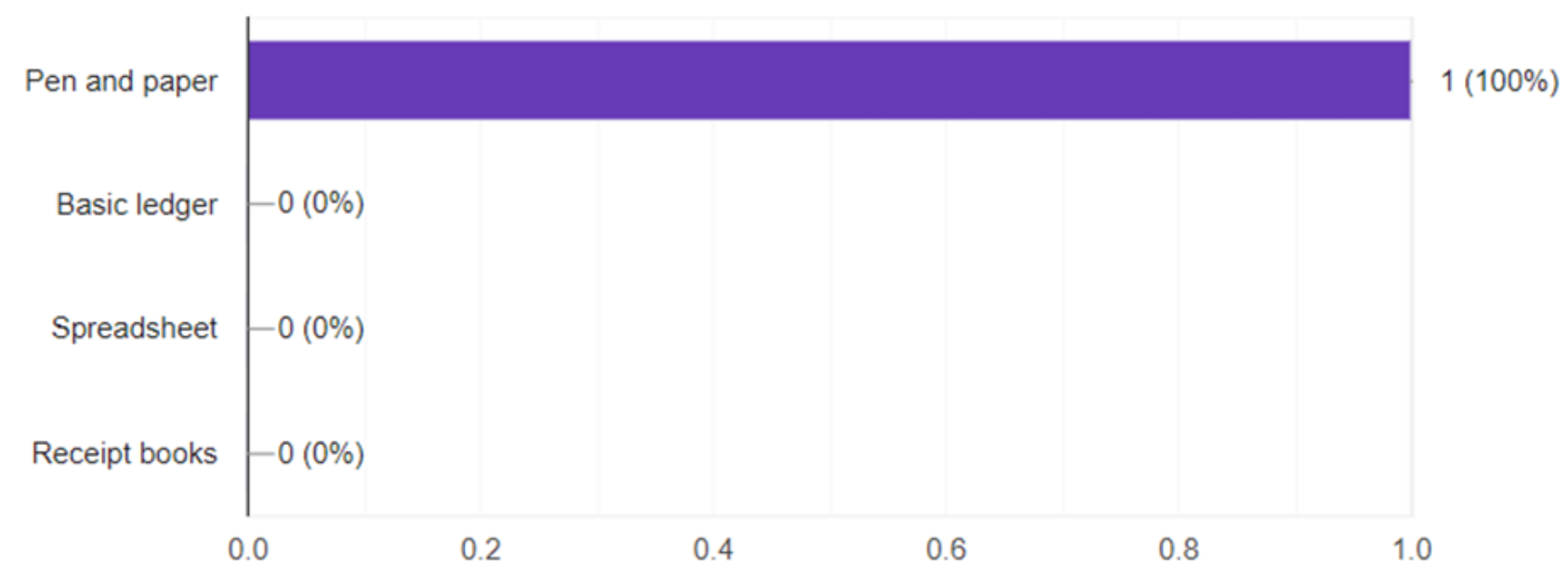## 6. Do you have any concerns about adopting a POS system?

1 response

- Concerns about the initial setup
- Concerns about ongoing support and maintenance
- Concerns about managing the system during operation
- No concerns, confident in the benefits of a POS system

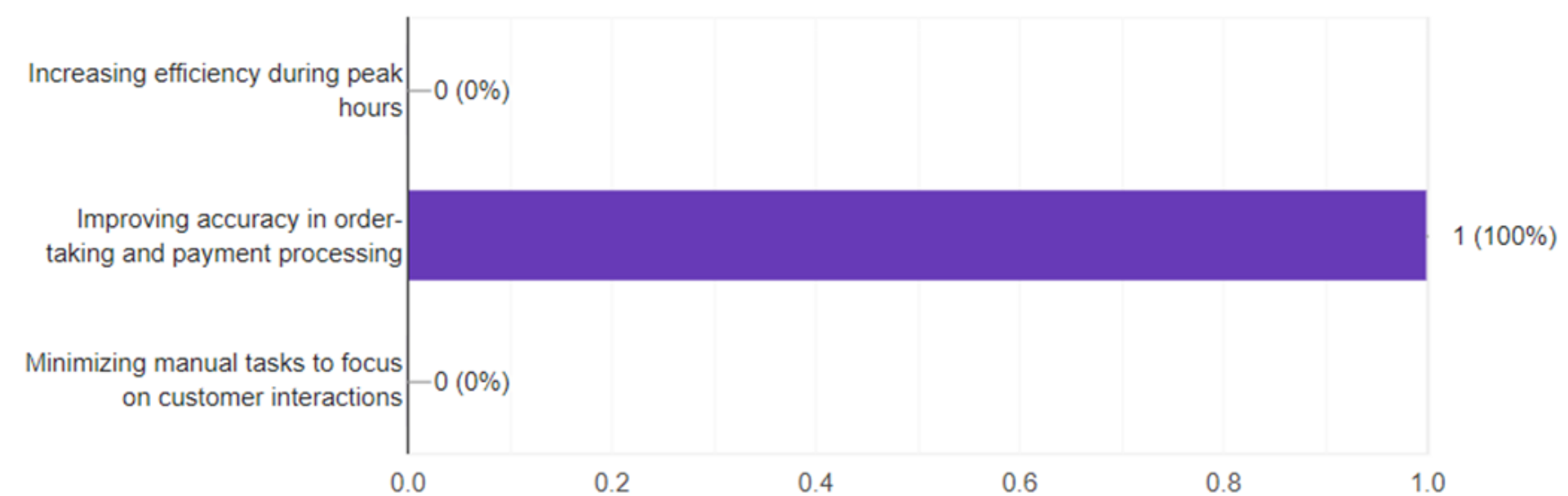## 7. How do you currently track sales and payments for your business?

1 response

Pen and paper	1 (100%)
Basic ledger	0 (0%)
Spreadsheet	0 (0%)
Receipt books	0 (0%)

Copy

8. What are your main goals in adopting a POS system for your business?

1 response

Increasing efficiency during peak hours	0 (0%)
Improving accuracy in order-taking and payment processing	1 (100%)
Minimizing manual tasks to focus on customer interactions	0 (0%)

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9. Do you feel that the POS system has increased or decreased your productivity in running your daily operations?

1 response

Increased productivity	1 (100%)
Decreased productivity	0 (0%)
Not sure yet	0 (0%)
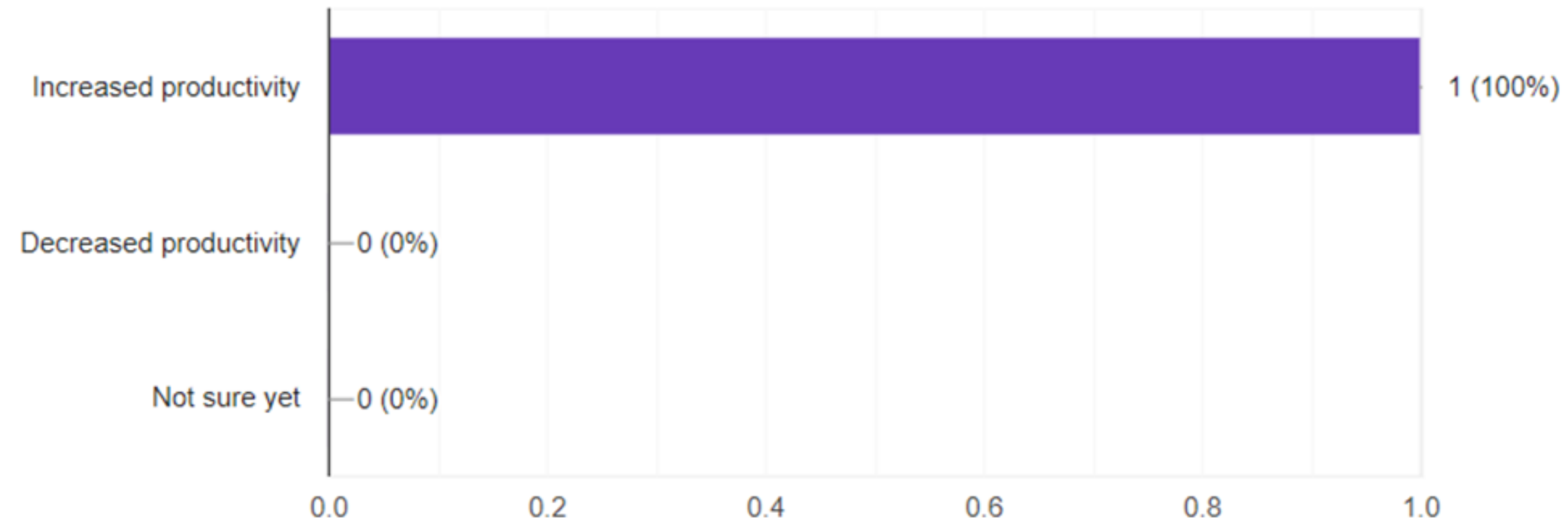
10. What specific features or functionalities would you like to see in the POS system? Please provide a detailed explanation.

1 response

ñone

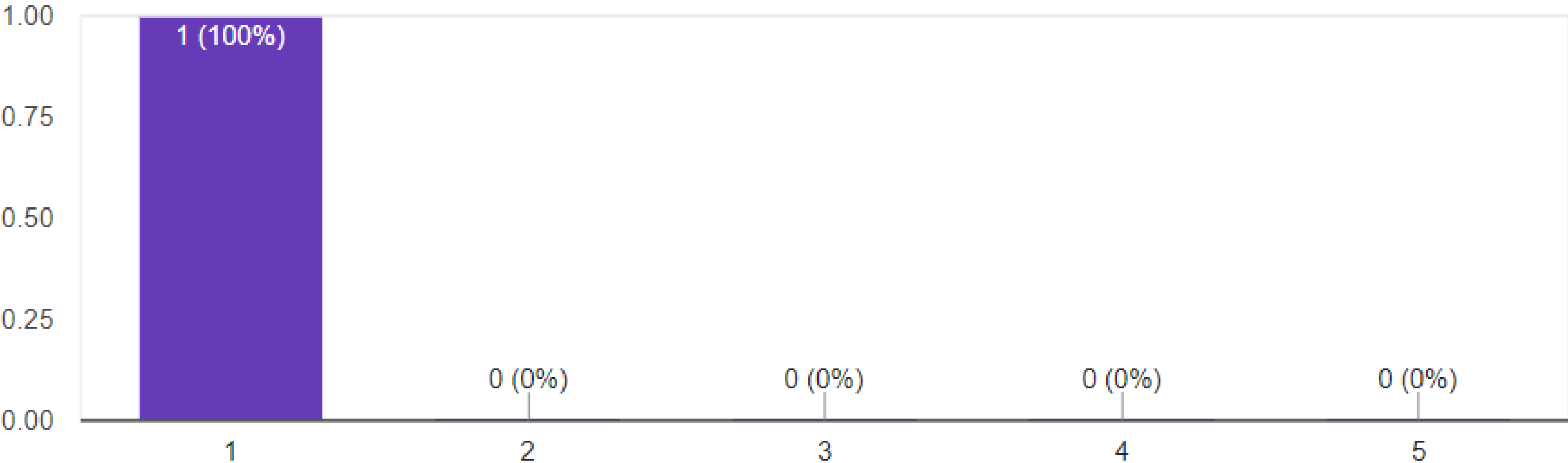# Outcome Questionnaire (After Development)

1. How satisfied are you with the implementation of the POS system in your stalls?

Copy

1 response

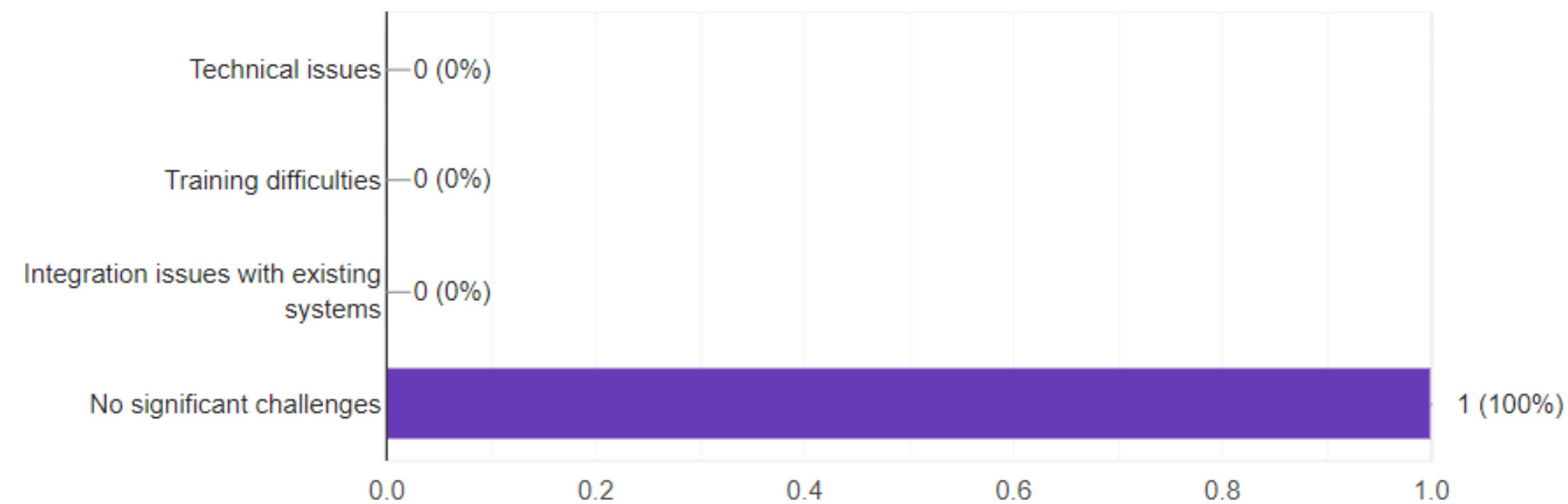**2. Have you noticed any significant improvements in your stall operations since implementing the POS system?**

1 response

- 🔵 Yes, significant improvements
- 🔴 Yes, some improvements
- 🟠 No noticeable improvements
- 🟢 Not applicable

100%
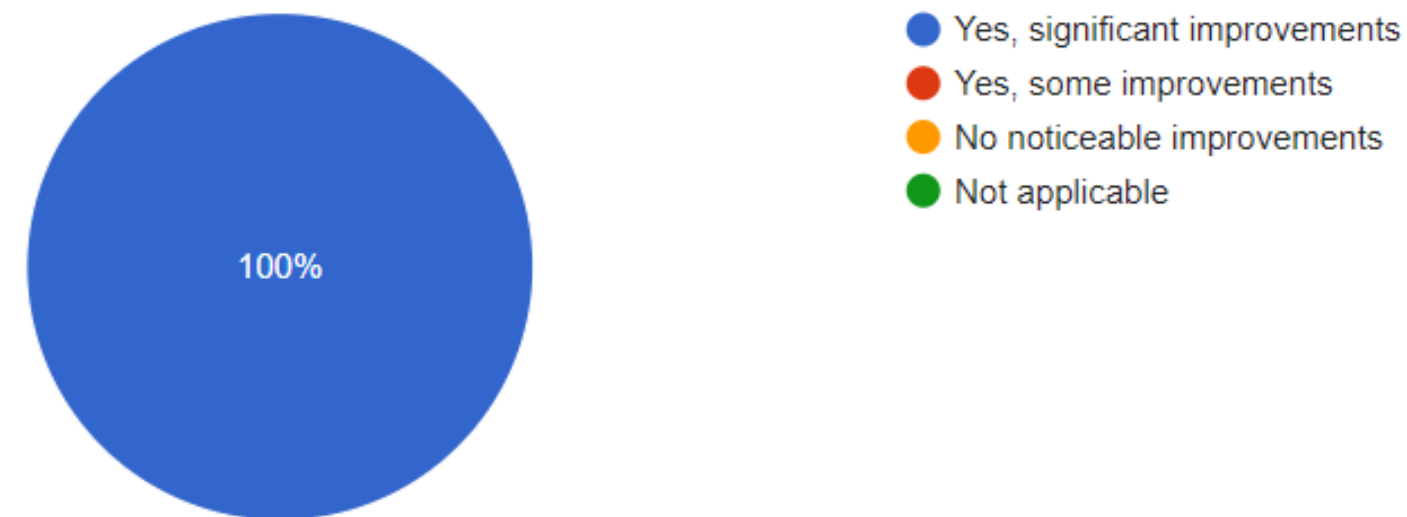
3. What specific challenges, if any, have you encountered while using the POS system in your day-to-day operations?

1 response

Technical issues	0 (0%)
Training difficulties	0 (0%)
Integration issues with existing systems	0 (0%)
No significant challenges	1 (100%)

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4. On a scale of 1 to 5, how would you rate the user-friendliness of the POS system?
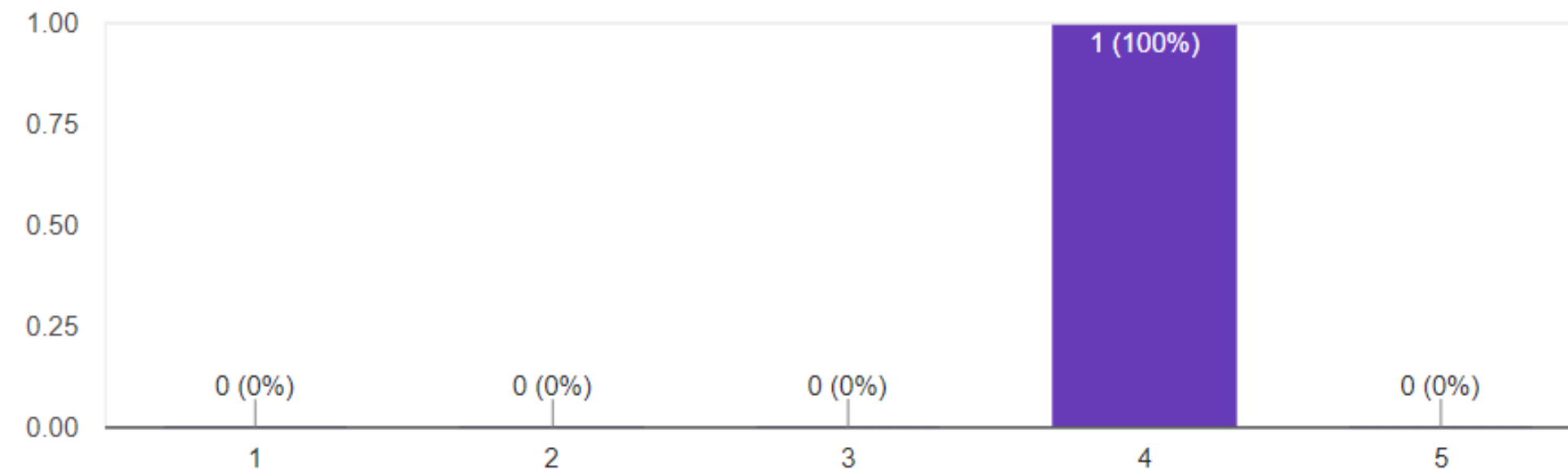
1 response

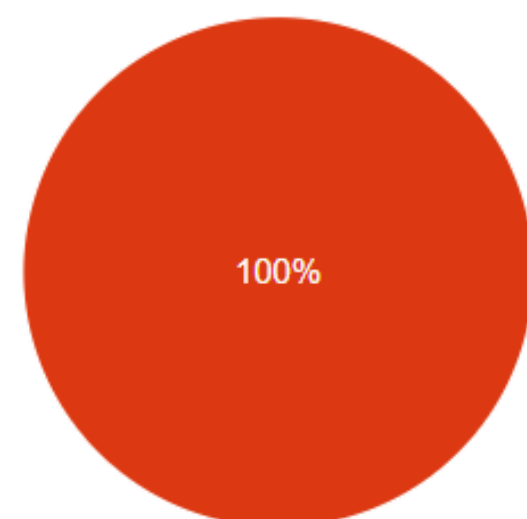5. Have you received any feedback from your customers regarding their experience with the new POS system?
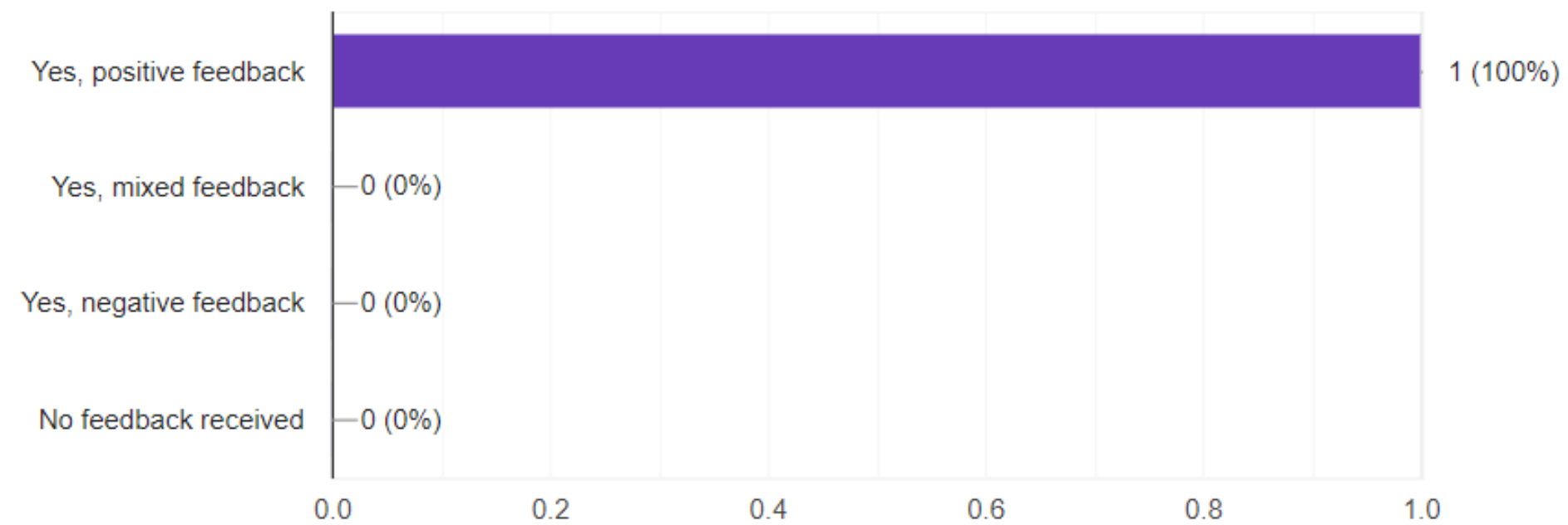
1 response

6. How has the POS system impacted your sales tracking and payment management processes compared to before its implementation?
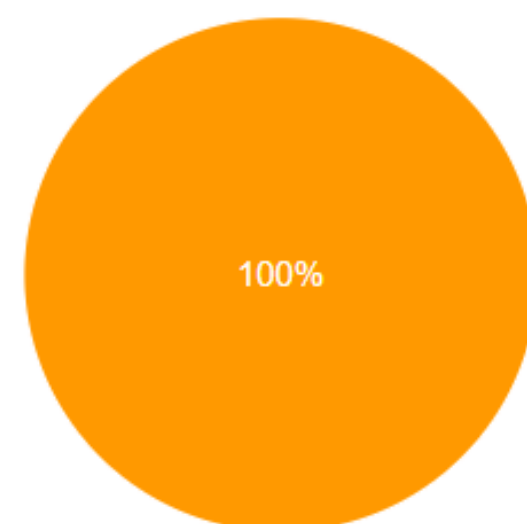
1 response

- Significantly improved
- Somewhat improved
- No noticeable difference
- Worse than before

100%

7. Have you encountered any technical issues or downtime with the POS system? If yes, how were they addressed?
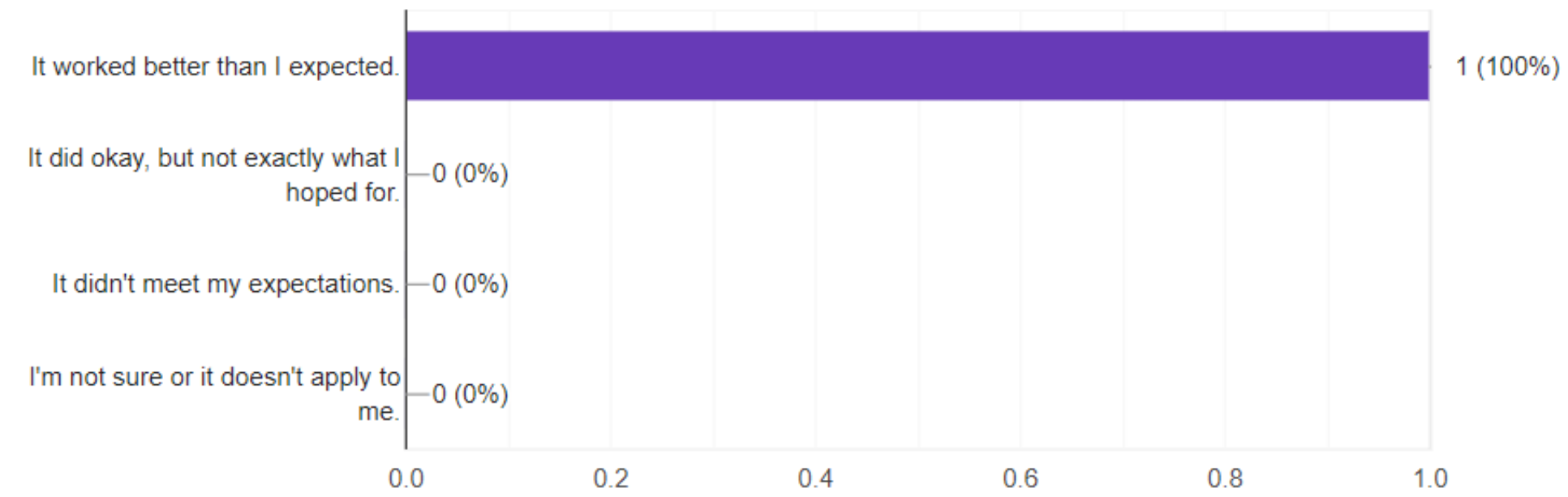
1 response

- Yes, promptly resolved
- Yes, but took time to resolve
- No technical issues encountered
- Not applicable

100%

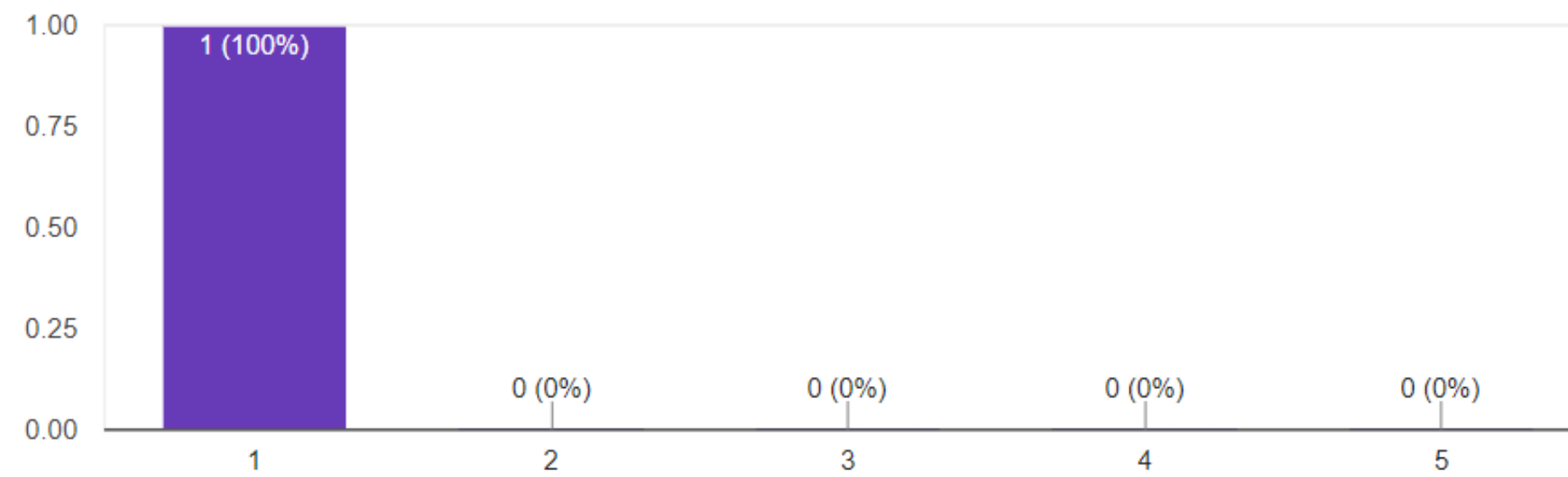## 8. How well did the POS system meet your expectations?

1 response

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Response	
It worked better than I expected.	1 (100%)
It did okay, but not exactly what I hoped for.	0 (0%)
It didn't meet my expectations.	0 (0%)
I'm not sure or it doesn't apply to me.	0 (0%)

9. On a scale of 1 to 5, how do you like the layout of the system

1 response

Copy

Scale	
1	1 (100%)
2	0 (0%)
3	0 (0%)
4	0 (0%)
5	0 (0%)

10. What improvements or enhancements would you like to see in the POS system to better suit your business needs?

1 response

Mobile version of this system will definitely help users to easily order food.
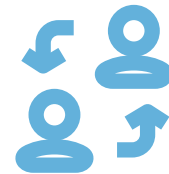
FUTURE WORKS

01
Functionality Optimization
Keep improving the POS system to make it work even smoother and easier for everyone.

02
Security Enhancements
Make sure the system stays safe from hackers so that customer and business information is always protected.

03
Additional Integrations
Think about adding new things to the system, like ways to pay with phone or connect to other apps.

04
User Improvement
Keep making the system easier to use by listening to what people say and fixing any problems they have.

05
Data Analysis
Explore the possibility of utilizing the sales data collected by the system to make sales forecasts, map trends, and gain deeper insights into customers.

CONCLUSION

Developing the Point-Of-Sales system for small businesses like Satay Pandan has been a rewarding experience for me. Throughout the project, I learned a lot about making websites easy to use and ensuring important information gets across effectively. I also got better at programming, especially in PHP. Overall, it was a great learning journey that taught me a lot about helping small businesses succeed.

THANK YOU