**COMPUTER ENGINEERING**
**INTRODUCTION TO SOFTWARE ENGINEERING**
**COE 356**

# Simple Inventory Management Assistant

## Garage97

**A REPORT ON THE PREPARATORY REQUIREMENT FOR THE PROJECT**

**Introduction**

Simplified Inventory Management Assistant is a system for business owners which seeks to improve the management of the finance of the business. This software is a web-based application and can be hosted on the Internet. It also provides a clean and user-friendly interface to the users.

**Purpose**

Simplified Inventory Management Assistant is an automated system for business inventory management.

**Intended Audience**

This software is primarily targeted towards small and medium sized businesses owned by students on campus and other businesses around campus with variety of products.

**Intended Use**

This software will help business owners monitor various sections of their businesses like sales, profit, losses, customers etc.

**Survey**

We went round asking various student business owners on campus about how they manage their businesses and also created a questionnaire (https://forms.gle/sEns3BwLAaoYbdX59) with Google Forms which we also sent around to speed up the process. A part of the team went around for personal interviews the owners.

A student owner who makes and
sells wig accessories
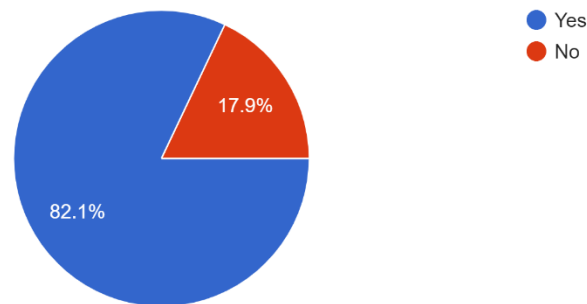


After a personal interview with a student owner



Interviewed a fruit seller on campus

**Data Collected**

We were able to generate some insights from the data collected from the forms which asserted the need for our application. Below are some the graphs that were generated from the report
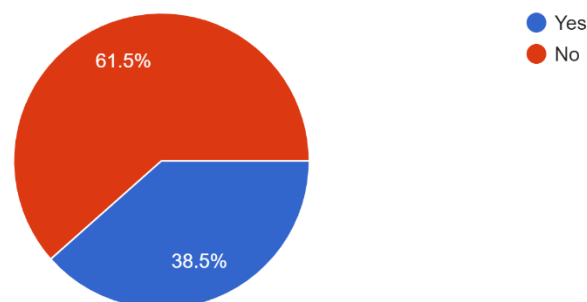
Are you a vendor ?
39 responses



- ❖ The questionnaire we generated were not only to our targeted audience(vendors) since we wanted outside perspective as well.
- ❖ Outside perspectives were mostly got from personal interviews which aided our project. For instance, most of the people wanted something simple that they can interact with.
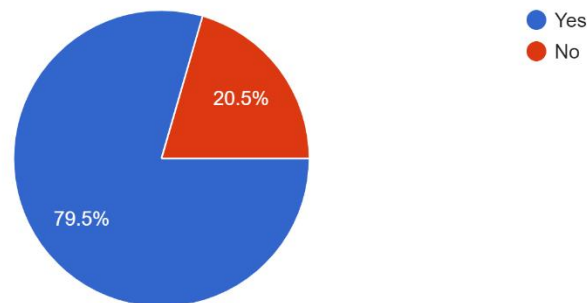
Do you have multiple businesses?
39 responses



- ❖ The project was first geared towards single businesses since they are in the majority. The data we acquired made it known to us some of our targeted audience had multiple businesses and even the ones with the single ones had thoughts of expanding.
- ❖ Designing for multiple businesses was a positive feedback we got so we considered adding to it.
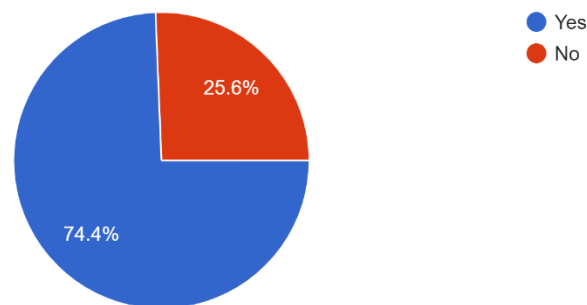
**Do you sell multiple products?**

39 responses



- ● Yes
- ● No

20.5%

79.5%

- ❖ The single businesses had a variety of products but some had a single stock of products.
- ❖ One of our aims in the web application is to easily help our users keep track of their products since its tedious.
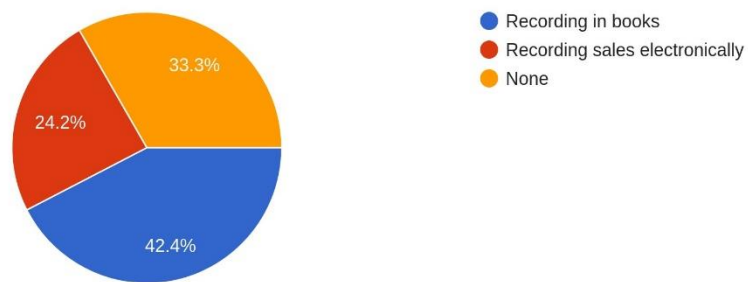
**Do you know which product gives you the most profit?**

39 responses



- ● Yes
- ● No

25.6%

74.4%

- ❖ Most of the business owners had a fair idea which product gave a lot of profit. Some complained that since time changes, when profit spikes in certain products it's difficult to track.
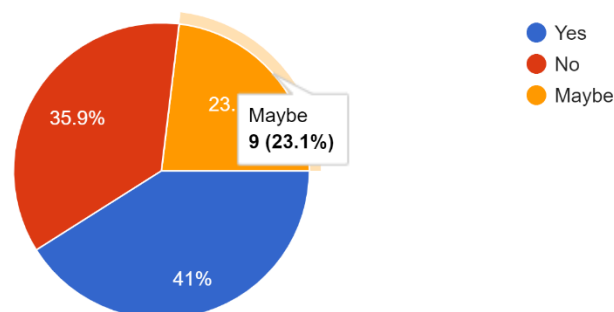
How do you keep track of sales made?
33 responses



● Recording in books
● Recording sales electronically
● None

- ❖ Most respondents had a way to record their data. But we found out it was limited.
- ❖ The data they collected was mostly their total output and weren't recording their individual stocks.
- ❖ The use of tracking using books causes huge risks. They could be misplaced. We made them aware of our project which would keep their data safe. A lot of them gave us positive feedback but one or two insisted on their ways since they were used to it .

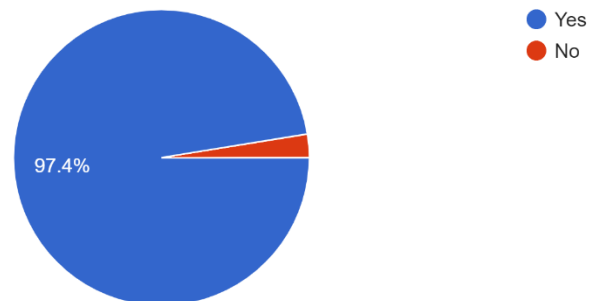Is the process of keeping track of your business a tedious task?
39 responses



● Yes
● No
● Maybe

Maybe
9 (23.1%)

- ❖ Generally, keeping track of the data involved a lot of work but since there were no alternatives, they had to stick to it.
- ❖ Our project will take the initiative to make such tedious work simple.

Would you be interested if software was built to manage all these for you?(Keeping track of sales, customers, profits and losses)
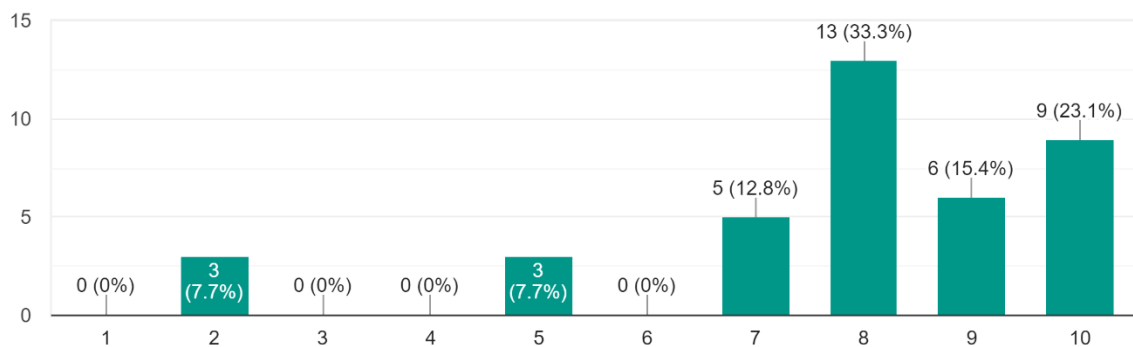
39 responses



- Yes
- No

97.4%

❖ Almost all respondents were interested in using an app to manage their business.

On a scale of 1(least) to 10(most), how comfortable would you feel if you use this software?

39 responses



❖ About 82% of the respondents choose 7 and above (on a scale of 1 to 10) when asked if they would be comfortable using the application

**Some features requested by respondents**
- Daily target
- Customer name and contacts
- Fast application
- Loss and profit of entire stock sale
- Daily sales
- Weekly sales
- Total monthly sales

**Appendix**

Questionnaire distributed through online platforms to our targeted audience.

https://forms.gle/sEns3BwLAaoYbdX59

# Inventory Management For Small & Medium Scale Businesses

A survey to find out how an inventory management for small & medium scale business with will help to make businesses better and more profitable

* Required

## Are you a vendor ? *

○ Yes

○ No

## Do you have multiple businesses? *

○ Yes

○ No

## Do you sell multiple products? *

○ Yes

○ No

Do you know which product gives you the most profit? *

○ Yes

○ No

How is your profit calculated ? *

○ Per product

○ Entire stock

How do you keep track of sales made? *

○ Recording in books

○ Recording sales electronically

○ None

○ Other: _____

Do you keep track of your customers? *

○ Yes

○ No

○ Maybe

Is the process of keeping track of your business a tedious task? *

○ Yes

○ No

○ Maybe

Would you be interested if software was built to manage all these for you? (Keeping track of sales, customers, profits and losses) *

○ Yes

○ No

What features would you like to be included in this software?

Your answer

On a scale of 1(least) to 10(most), how comfortable would you feel if you use this software? *

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Not Comfortable | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | Very Comfortable |

Submit

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