

# AI Based Inventory and Sales Optimizer

Final Year Project (2017-2021)
Department of Computer Science
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## Introduction

This Android application is designed for shopkeepers or small business owners who will be able to simply track and keep record of their daily sales or purchase activities, but also will be able to keep the inventory updated with the latest items which are mostly sold or in which users are mostly interested in buying them. This application will be best suitable to be used by shops or small-scale business owners.



#### **Motivation**

- To record sales and inventory data.
- To store vendor and customer details.
- To know about the most selling items.
- To stay updated the items out of stock.
- Increase in sales and revenue.
- Reduce the processing time period for shop owners.

## **System Background**

There are some problems with the existing systems which are identified below:

- Use of paper and pen extensively.
- Calling vendors overtime for new stock is uncomfortable.
- Chances of errors while writing the sales data.
- · Inconvenience and time wastage.
- To manually keep an eye on every item in stock.
- Difficult to analyze customer interest and items mostly sold out.

### **Architecture**



## **Objectives**

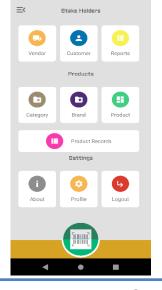
- Providing an interactive digital platform to keep an eye on entire business activities.
- Be more efficient and accurate than conventional system.
- Eliminating the use and cost of pen/paper.
- Analysing reports on daily basis just on a click.
- To be aware of any low stock item before its is out of stock
- Use of QR code scanner to quickly handle the buying and selling activities.



#### Results

#### **User Application**

To manage his inventory and to fully customize the items or other details according to requirements.



#### Conclusion

"AI Based Inventory and Sales Optimizer" Android app will be a great blessing for shopkeepers or warehouse owners who will not be able to simply track and maintain a record of their daily sales or purchase activities, but also will be able to keep the inventory updated with the latest items which are mostly sold or in which users are mostly interested to buy them and to forecast the amount of sale items in coming time through the use of AI.

#### **Future Goals**

- Local payment gateways implantation within the app like Jazzacash
- The iOS platform version for this app may be planned in near future.
- Suggestions and recommendation algorithm to made more precise to accurately predict the products which are mostly sold out.
- Customer module can be also considered to be an addition in current system.

## **Group Members**

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