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Billing System For Paver Block

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ABSTRACT

The main goal of this thesis was to develop a desktop based Billing System For Paver Block. This desktop based application is designed to supplier its users and customers. BSPB is a billing system, made for the effective utilization of modern technology in the organization. It is an automated software that can handle a lot of information about the customers, order history. It has the capability to process bills and gather information about its customer and billing history. It is designed for the sole purpose of efficiency, speed and accuracy.

This application allows the admin to view the detail history of day to day operation in terms of product, add or remove the customer, add new menu, view the detail of the customer like name, address, and so on. This application was developed using NetBeans IDE 8.0.2 for the front end and MySQL database was used to store data.

I. INTRODUCTION

To maintain smooth usage of the bill from creation of the bill, analysing it and the printing the bill to manage all the process we need a billing system. Billing System For Paver Block (BSPB) is an application to assist economic activity in a business.

Bill is a record of statement, and transaction of the money. Bill is used to keep record of business when a person busy some goods or any valuable things. The shopkeeper or supplier used to keep track of all the products designs, quantity, rate, stock are available as well as products sold to the customer and how much products was there in their reverse.

This system is not for keeping the record of transaction, the system is also used for the security purpose. Software was designed to handle the time and bill tracking as well as keeping customers information. These can display information such as how much the customer has paid and how much is owned, and total income of the month

OBJECTIVE:

The main objective of this software is a computerized working environment. This system is made on the assumption that the organization is fully requires manual work for any task. This project will serve the following objectives:

1. To add and maintain records of available product.
2. To add and maintain customers details.
3. To make an easy to use environment for users.

II. LITERATURE REVIEW

Most Paver Block Plant owner keep their records in register book which is not reliable as it may be lost somewhere or a little difficult to manage. Also, finding records of each individual's specific period is a time-consuming process. Using a Billing System Paver For Paver Block (BSPB), the Paver Block Plant owner can keep record of all block customers by organizing data in one place and this is the most reliable system. J Crookes (1996), the term adopted for the system is Multiservice Billing System (MSMB). The strategic business issues which have shaped the design of MSMB. It describes the scale and complexity of the problem which makes the constructions of a multiservice platform such a difficult feat of software engineering. The concept of a common product model, which underpins the system's design, is introduced [9].

III. PROBLEM STATEMENT

□ **Level of efficiency:** In case of both the retail stores and QSRs, managing customers and billing during the rush hours become though. Hand billing or billing through cash register takes time and serving more number of customers in less times becomes an impossibility.

□ **Maintaining payments and receivables:** A cash registers does not provide you the option to keep a check on your payments and receivers. So, without a billing solution, you need to keep track of these things manually, which again takes up a lot of your time.

□ **Keeping track of stock:** Keeping track of stock is one of the most important things for a business. But a cash register cannot provide any kind of help in this regard.

□ **Maintaining customer satisfaction:** Customer satisfaction is of foremost importance for any business. However, if billing takes time, if there's a

problem with delivery, etc. It becomes hard for a business to retain the customer.

IV. METHODOLOGY

Agile Development Model: The meaning of Agile is swift or versatile. "Agile process model" refers to a software development approach based on iterative development. Agile methods break tasks into smaller iterations, or parts do not directly involve long term planning. The project scope and requirements are laid down at the beginning of the development process. Plans regarding the number of iterations, the duration and the scope of each iteration are clearly defined in advance. Each iteration is considered as a short time "frame" in the Agile process model, which typically lasts from one to four weeks. The division of the entire project into smaller parts helps to minimize the project risk and to reduce the overall project delivery time requirements. Each iteration involves a team working through a full software development life cycle including planning, requirements analysis, design, coding, and testing before a working product is demonstrated to the client.

V. PROJECT IMPLEMENTATION



FIG: USE CASE DIAGRAM

VI. RESULTS

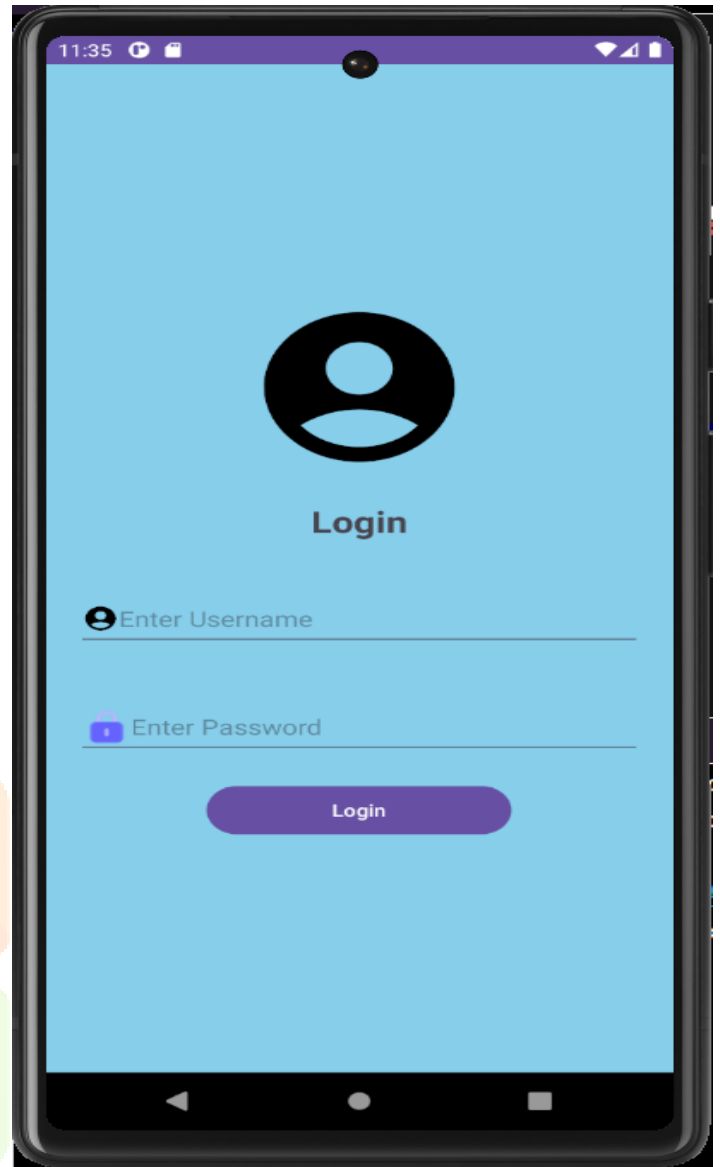
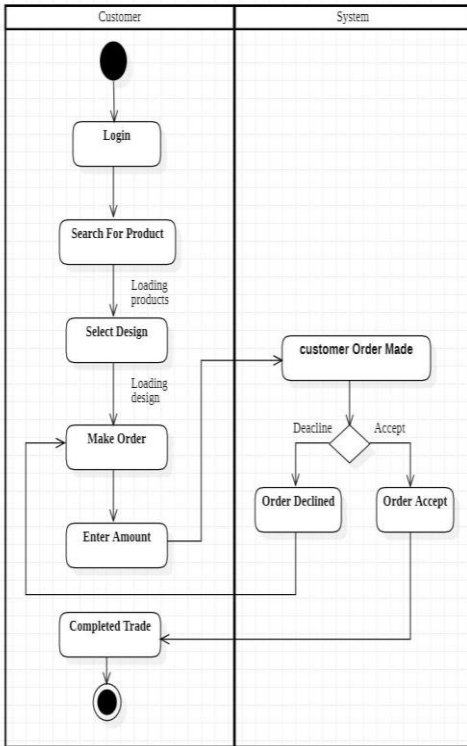


FIG: ACTIVITY DIAGRAM

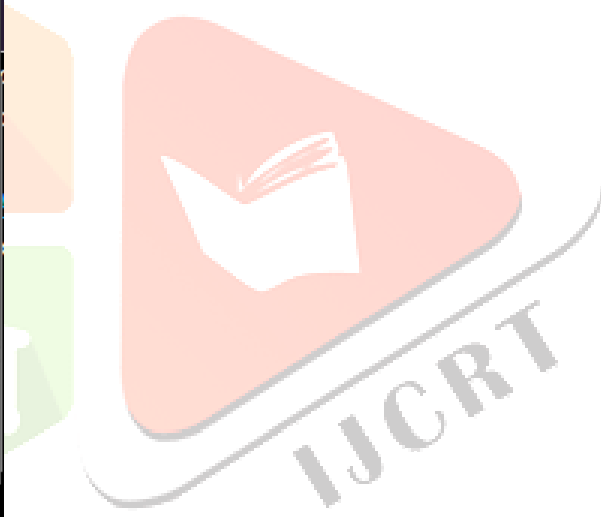
VI.HARDWARE &SOFTWARE REQUIREMENTS

- Operating system: Windows 7,8,10,11 etc.
- Front-End Language: Android ,java
- Android Studio
- SQLite Database

FIG:LOGIN PAGE



FIG: MAIN PAGE



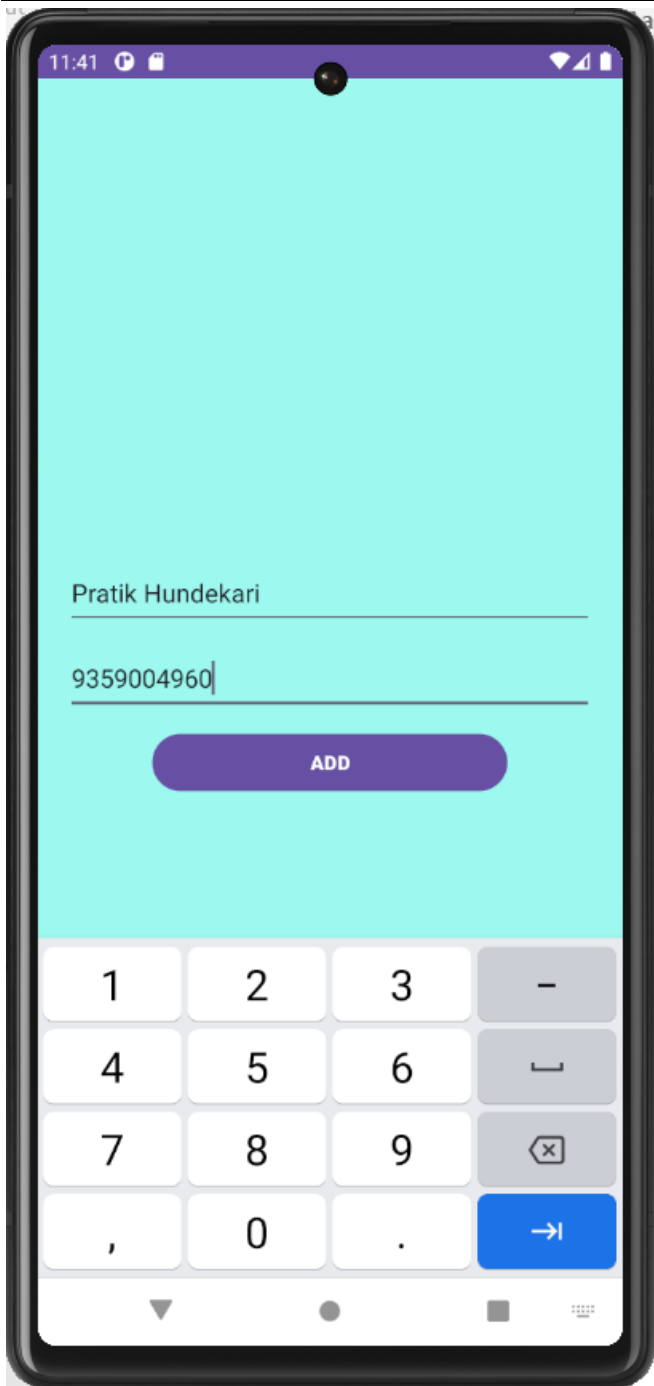


FIG: ADDING CUSTOMER



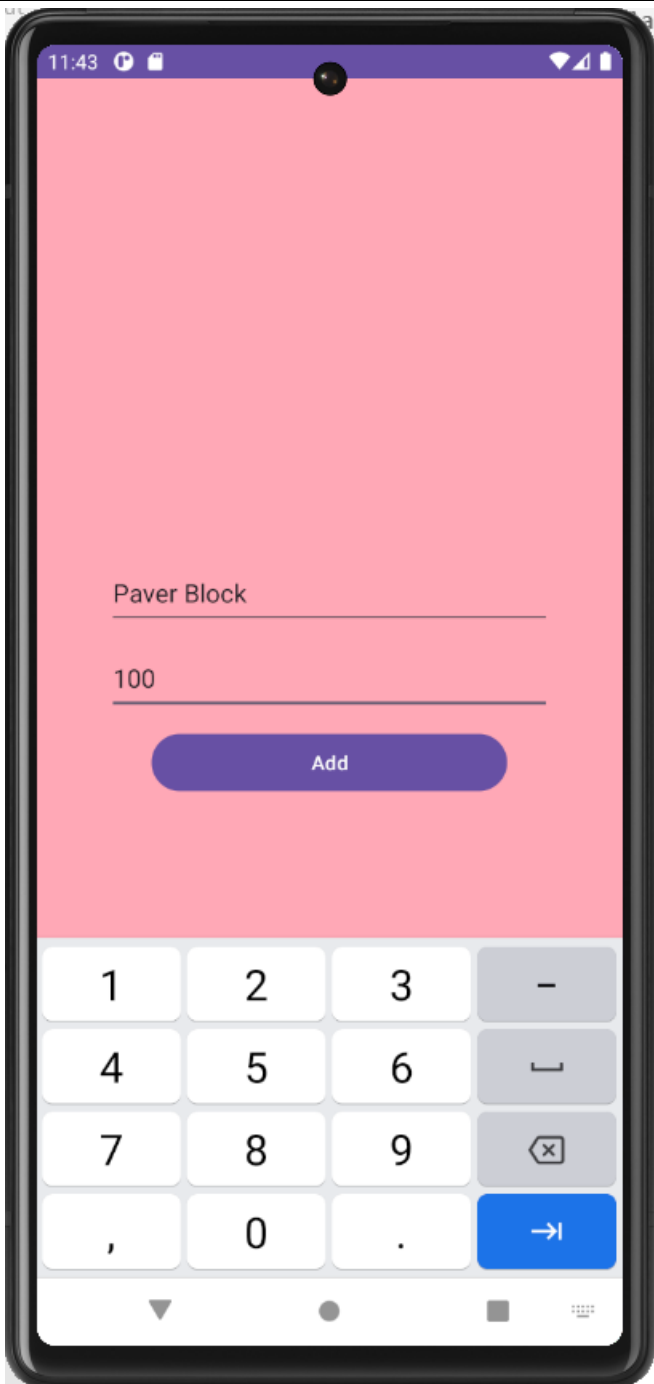


FIG: ADDING PRODUCT

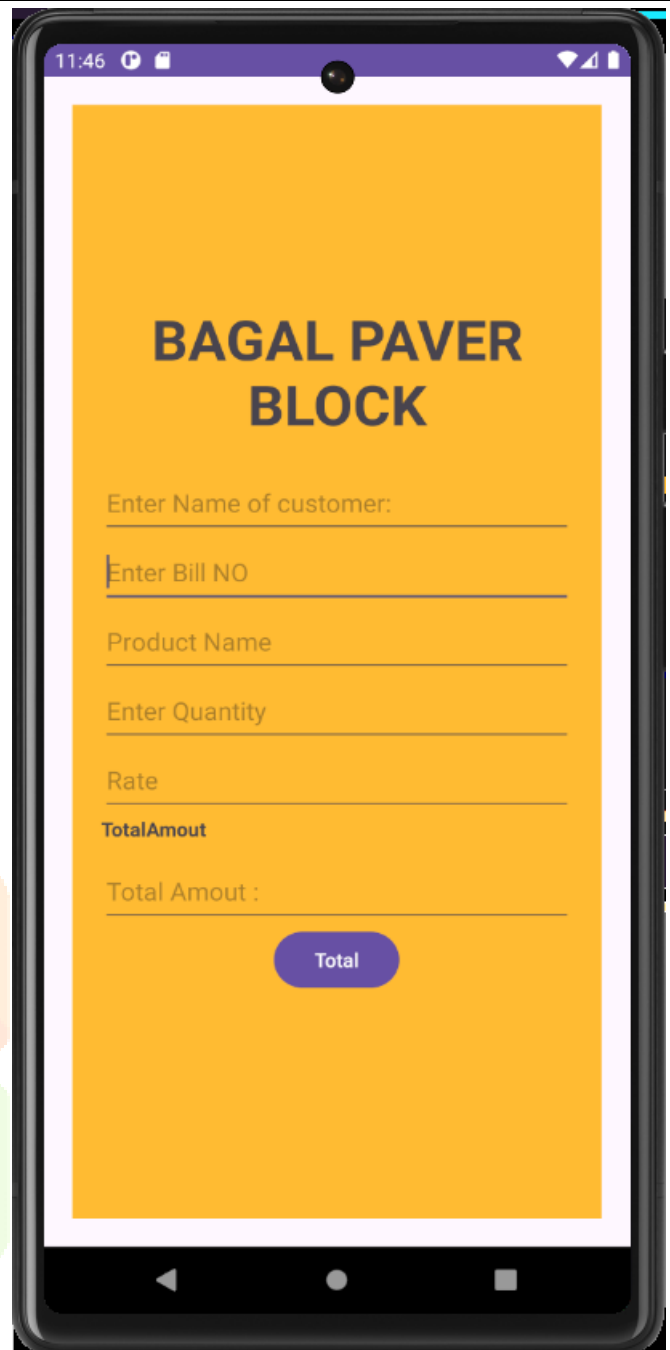


FIG: BILLING MODULE

VII. FUTURE SCOPE

BSPB software offers various functionalities needed to effectively manage business operations such as customer management, making orders, billing, product management, viewing order history, to-do list and many more.

In the future, many enhancements/upgrades can be made to the existing software. Various enhancements such as inventory management and control, wireless table side ordering and payment, real-time alerts, online ordering, mobile management capabilities can help increase revenue and cut cost.

VIII. CONCLUSION

The development and implementation of the Billing System for our Paver Block Company represent a significant leap forward in streamlining our sales, inventory management, and customer service processes. This project was initiated with the primary objective of enhancing operational efficiency, reducing manual errors, and improving our overall service delivery. Through meticulous planning, development, and testing, we have successfully deployed a system that not only meets these objectives but also offers scalability for future needs. The project employed a phased approach, starting with a thorough analysis of our existing processes, identifying bottlenecks, and outlining specific requirements for the billing system. By adopting agile methodology, we ensured that the project remained flexible to changes and improvements throughout its development cycle. This approach facilitated continuous feedback from key stakeholders, allowing

for incremental improvements and ensuring the system was closely aligned with our operational needs.

IX.REFERNCE:

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