

# HERMES

## USER MANUAL

# TABLE OF CONTENTS

- INTRODUCTION ..... 1**
- HERMES PAGES ..... 2**
  - LOGIN.....2
  - SIGN UP.....3
  - BILLING SCREEN .....3
  - BARCODE GENERATOR.....4
  - PURCHASE SCREEN .....4
  - DAYBOOK.....5
- TECHNICAL DETAILS ..... 6**
  - USER INTERFACE .....6
  - BACKEND .....6
  - ALGORITHM.....6

# INTRODUCTION

Managing a retail store efficiently in this day and age has become quite cumbersome. The store manager has to juggle numerous issues and come up with solutions to tackle these issues.

The Hermes system uses a multiplatform desktop application, an Android application along with a database server, internet connection and a router to help manage the store remotely.

Identifying store items with a barcode scanner, completing retail transactions and generating bills are the three main tasks performed by the system. The system can be configured to either run as a centralized system or as a distributed system.

The Hermes system also managed to demonstrate the important characteristics of high efficiency, platform independence and being user-friendly.

# HERMES PAGES

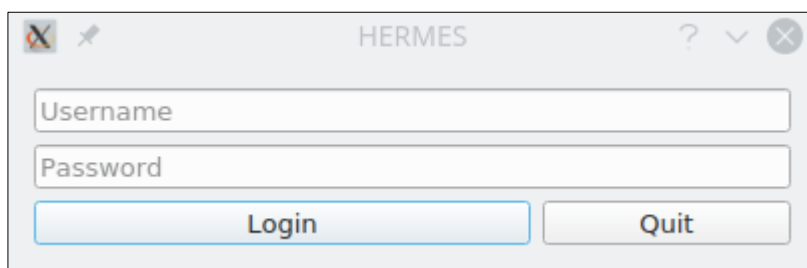
## LOGIN

The software is divided into two parts front end and backend. It is done so that it can work as a desktop application as well as a web application. For the software to run you need to set up the server side of the application based on the database driver you want to use.

For the software to run as a desktop application you will have to set up the QDBC driver. For the software to run as a web application you need to setup ODBC driver and configure it according to the Database Management System software you are running.

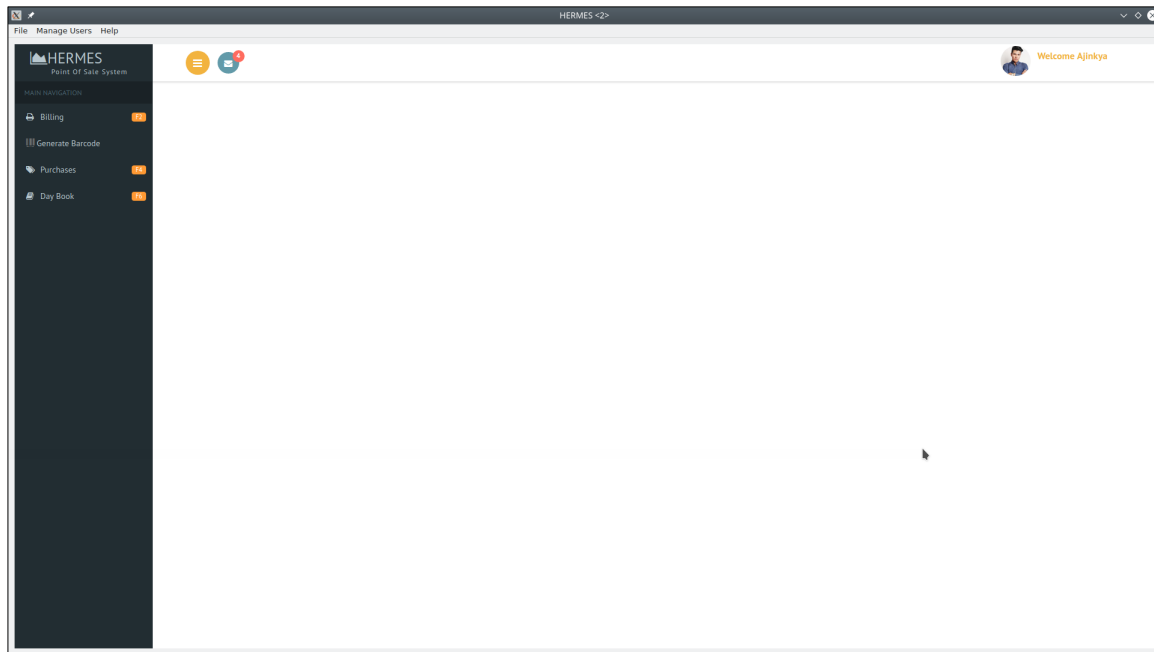
Given below are the screenshots of the software:

First, you need to login to the software:



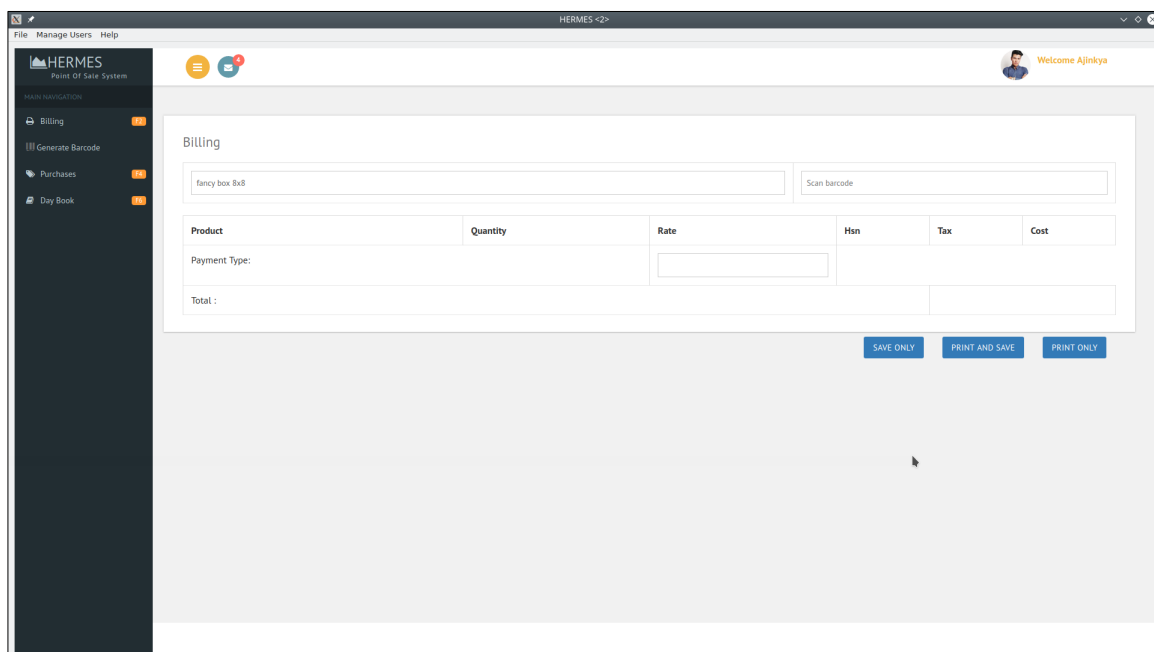
## SIGN UP

You will be served with a screen as given below:



## BILLING SCREEN

Press F2 or click the billing tab to go to the billing screen:



## BARCODE GENERATOR

Press the generate barcode tab to go to the barcode screen: select item and click generate barcode to generate barcode

The screenshot shows the 'Print Labels' interface of the HERMES Point Of Sale System. On the left is a dark sidebar with navigation options: Billing, Generate Barcode, Purchases, and Day Book. The main area has a header 'Print Labels' and a 'Print Section' containing an 'Enter Product Name:' dropdown menu with 'Product Name' selected and a 'Generate Label' button. Below this is a 'Preview' section with a blue header and a white content area. The footer shows '© 2018 Hermes. All Rights Reserved'.

## PURCHASE SCREEN

To buy something for the store you will have to go to purchase screen by clicking on the tab or press F3:

The screenshot shows the 'Purchases' interface of the HERMES Point Of Sale System. The sidebar is the same as in the previous screen. The main area has a header 'Purchases' and two input fields: 'Attendant' and 'Purchase Account'. Below these is a table with columns 'Product', 'Quantity', and 'Cost'. The table contains rows for 'Cash:', 'Card 1:', 'Card 2:', 'Card 3:', 'Cheque 1:', 'Cheque 2:', 'Balance:', and 'Total:'. Each row has a dropdown menu for the payment method and a text input field for the amount. A 'PRINT AND SAVE' button is located at the bottom right of the table.

Product	Quantity	Cost
Cash:		0
Card 1:		0
Card 2:		0
Card 3:		0
Cheque 1:		0
Cheque 2:		0
Balance :		
Total :		

## DAYBOOK

To view Daybook press F6 or click on the Daybook tab, enter the date and you will find information about the current day sales:

The screenshot shows the HERMES Point Of Sale System interface. On the left is a dark sidebar with navigation options: Billing, Generate Barcode, Purchases, and Day Book. The Day Book option is highlighted. The main area has a 'Select Date:' label and a date input field containing '08/13/2018'. Below this is a blue header for the 'Daybook' section. The content area displays the following information:

Date: 2018-08-13  
Total Sells:  
Total Purchases:  
Sells : .....  
Total = .....  
Purchases : .....  
Cash:  
Card1:  
Card2:  
Card3:  
Card Total: 0  
Cheque1:  
Cheque2:  
Total:

At the bottom of the page, there is a small copyright notice: © 2018 Hermes - All Rights Reserved.

# TECHNICAL DETAILS

## **USER INTERFACE**

The user interface of the software is developed using the QT framework. For the web app, the user interface is developed using HTML, CSS, and JavaScript. Both the software and the web app make use of AJAX to load the data dynamically.

## **BACKEND**

For backend, we have made use of PHP and MYSQL. However, for the software to be able to work with the database, we need to setup QDBC. For the POS library that helps generate barcode and printing functionality, you need to setup ODBC. The web app requires ODBC as well to interact with the POS library and the database.

## **ALGORITHM**

The front end along with the backend is developed using the procedural method of programming. The linear search algorithm is used to extract elements from the database.