Master of Computer Applications [Batch 2019-2021]

DMS Inventory Management System

Technology: Python Django

Submitted in the partial fulfillment for the Semester-V Mini-Project

Project Guide: Dr. Hetal Thaker

Group-2

Team Members

191823002 | Aghera Kevin Bipinbhai
+91 81401 69137 | kevinaghera1999@gmail.com

191823011 | Garach Devang Bharatbhai
+91 84603 52525 | devanggarach@gmail.com

191823008 | Changela Savan Prasudbhai
+91 95378 39403 | savanchangela273@gmail.com

Agenda

- ✓ Project Overview
- ✓ Core Components
- ✓ System Requirements
- ✓ Tools and Technologies
- ✓ About Existing System
- ✓ Targeted Users
- ✓ Use Case Diagram
- ✓ Activity Diagram
- ✓ Class Diagram
- ✓ Sequence Diagram
- ✓ Timeline Chart
- ✓ Screenshots

Project Overview

DMS **Inventory Management System**

DMS is online stock management application, invoicing by scan QR Code, statistical data and some other features which will help to grow their business, on web-based application responsive design mobile, tablet, desktop supportive, for any small or large scale business/organization, which covers all sports store, supermart, gift and home-decor shop, book store, stationery, hardware, auto-parts store.

Group-2

Core Components

In this application/system there are seven modules which are described below

Login Module

Registration of any organization, Registration of any organization, while registration we will take basics details about organization which will take be like business name, username, password, address, city, state, contact details and business logo, GSTIN Number. Once registration completes, authenticate user of organization has to login via their username and password.

Stock Management Module

Stock Management Module is divided into 2 sub-modules, Add Products, Add/Modify Stock Details. While adding products or modifying stock details we will get some details like, product name, quantity, HSNCode, Cost Price, Selling Price, expire date, packing date. User can add product manually or they can insert directly stocks, if there is any new product it will automatically first add product and then it add stocks.

Core Components (Continue...)

Billing Module

User will scan the products QR Code and each items will be added to list of billing desk, billing was done with some basic calculation related to GST and discount based on product. Qty*SellingPrice=Amount,AmountDiscount=TaxableAmount, TaxableAmount+GST=TotalAmount information we get while billing are Customers Mobile/email, Selling Price(With GST). Quantity, Payment Mode

Print Module

Based on the product inserted into the stock user can also print out the QR code, they can select the product and system will ask how many QR Code must be printed for per product.

Stock Notify Module

If any stock is less than given limit or product is expired then it will notify instantly to owner, to remove that stock from their shop.

Core Components (Continue...)

Report & Analysis Module

All kind of statistical data will be displayed here which will help owner to boost their business/ entire organization. Report & Analysis details like..

- Maximum Selling Product in the Day
- Maximum Selling Product in the Month
- Unique Customers
- Total Products in their Shop
- Which Products not sale in Day or Month
- Product wise selling count Report of the Day, Month & Year
- Profit of the Day, Month and Year
- Current Stock Report
- Sales Return Products
- And Many More Reports with PDF and Excel files.

Sales Return Module

Whenever any customer return any product, due to any reason like damaged product, Defective Product, Product not as per expected, etc... We will get some details at the time of sales return like, Customer Mobile, Product ID, Quantity, Note (Reason for Return)

System Requirements

Minimal Hardware Requirements

Operating System	Microsoft Windows 7, 8 or 10, Ubuntu, Mac
CPU Processor	Dual Core 3rd Gen. or above
RAM	2GB
Hard Disk	250GB
Camera	2.0 MP TrueVision

System Requirements (Continue...)

Software Requirements

Python 2.7+	Support some libraries, (if requires)
Adobe Reader or any pdf reader	Used for Label printing and billing
MS Excel	Checking Excel sheet files
Chrome Browser 30+ or any browser	For Running application

Network Requirements

Mobile Data Plan	3G or Above

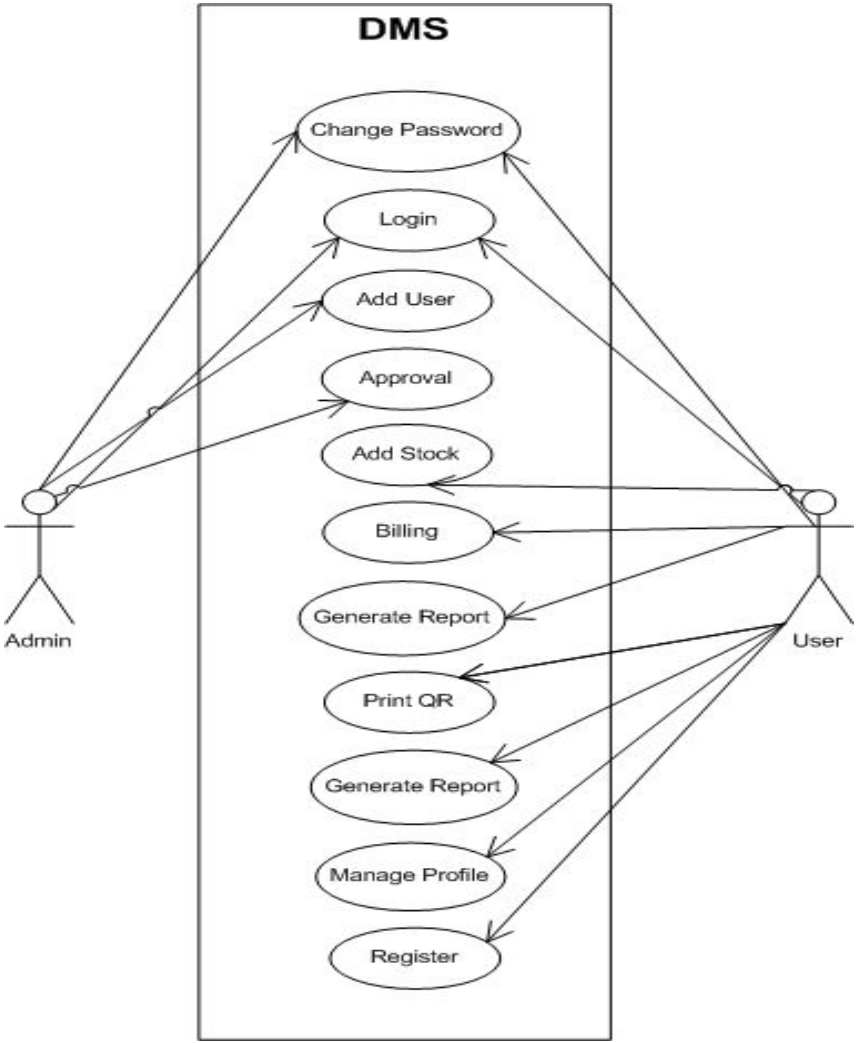
Tools and Technologies

About Existing System

There are many billing system like zoho, vyaparapp, justbilling, retailcore, Anapurna Supermarket, etc. Some of applications works Online or Offline standalone applications. Many system are just for specific purpose, supports only stock management and billings, While some of system also gives statistical information and analysis of stock with profit/loss, and to track customers buying analysis, and many more.

Targeted Users

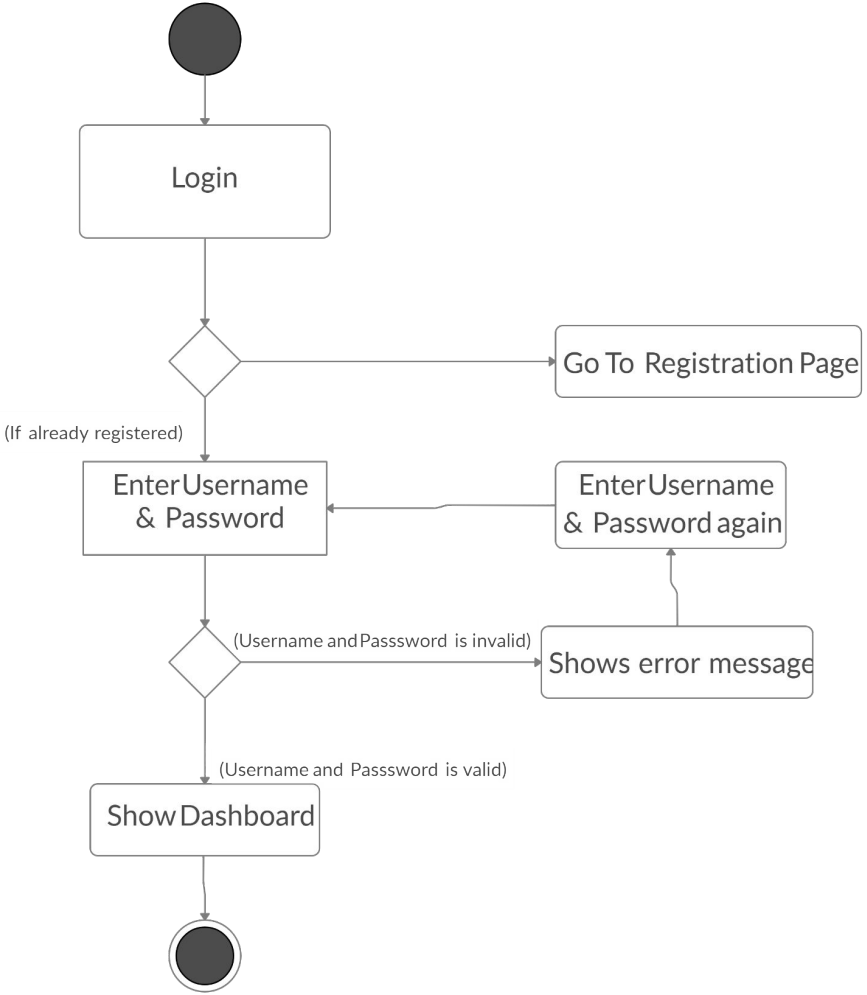
Targeted users are any small or large scale business/organization, which covers all sports store, supermart, gift and home-decor shop, book store, stationery, hardware, auto-parts store. Targeted to Small Shops First.



Use Case Diagram

DMS Inventory Management System

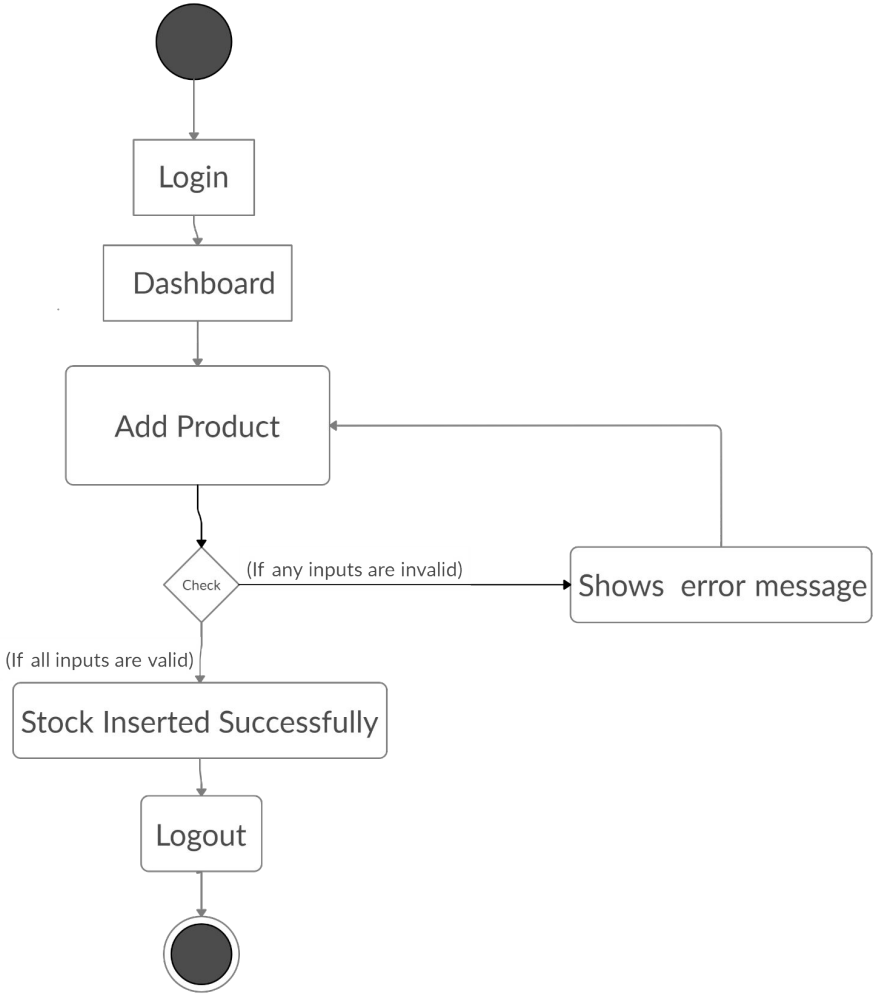
Group-2



Activity Diagram

DMS-Login

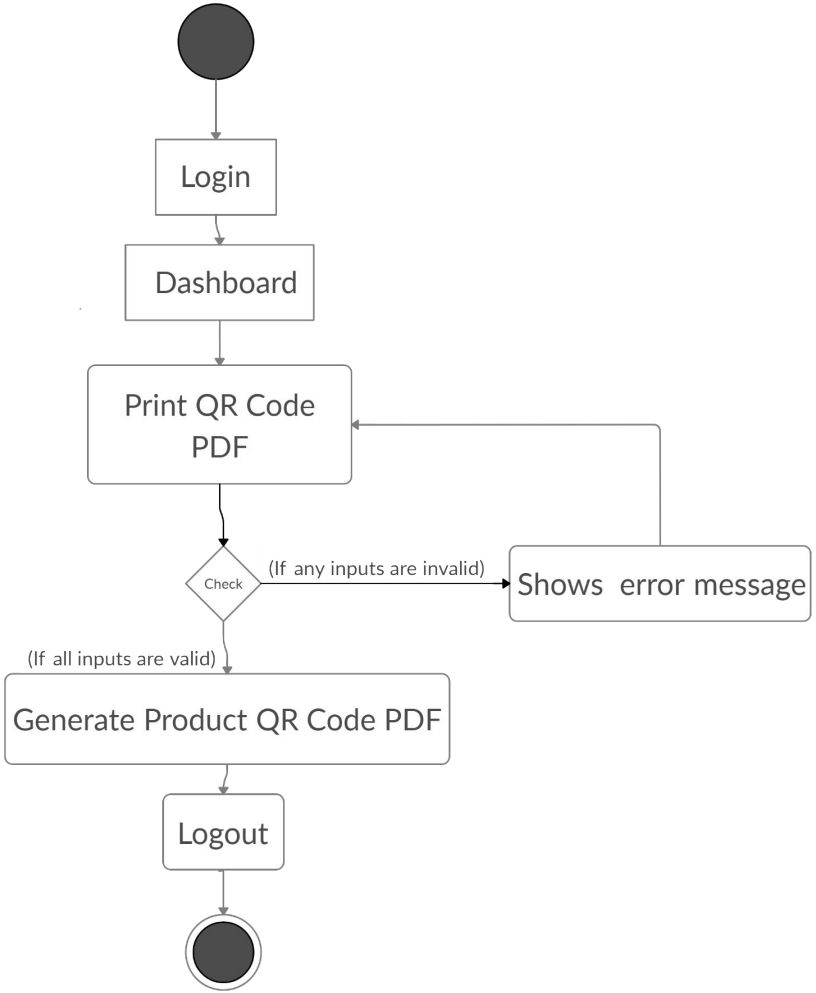
Group-2



Activity Diagram

DMS-Add Product

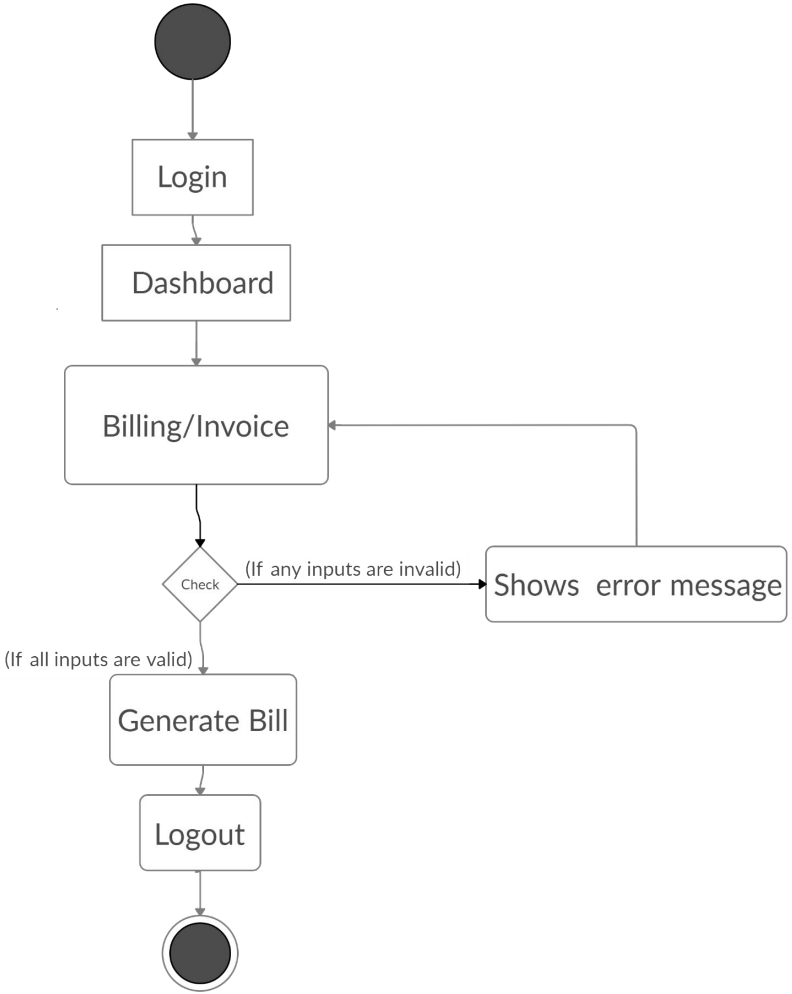
Group-2



Activity Diagram

DMS-Print QR Code PDF

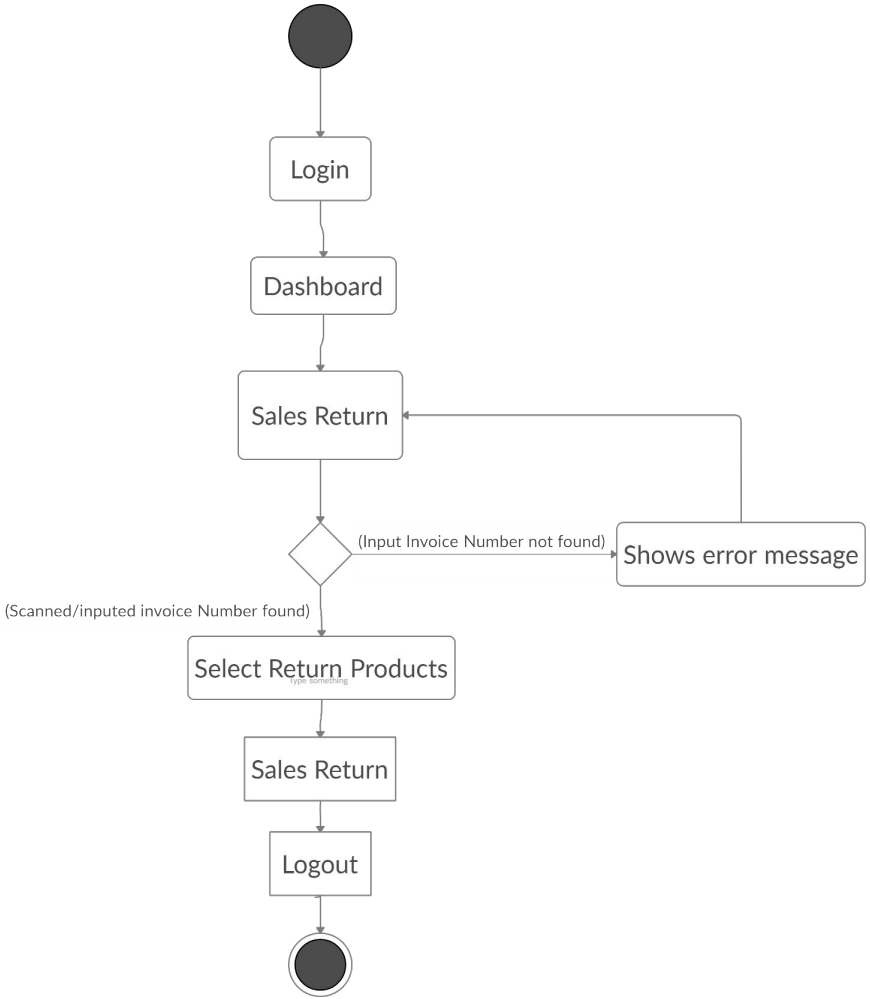
Group-2



Activity Diagram

DMS-Billing

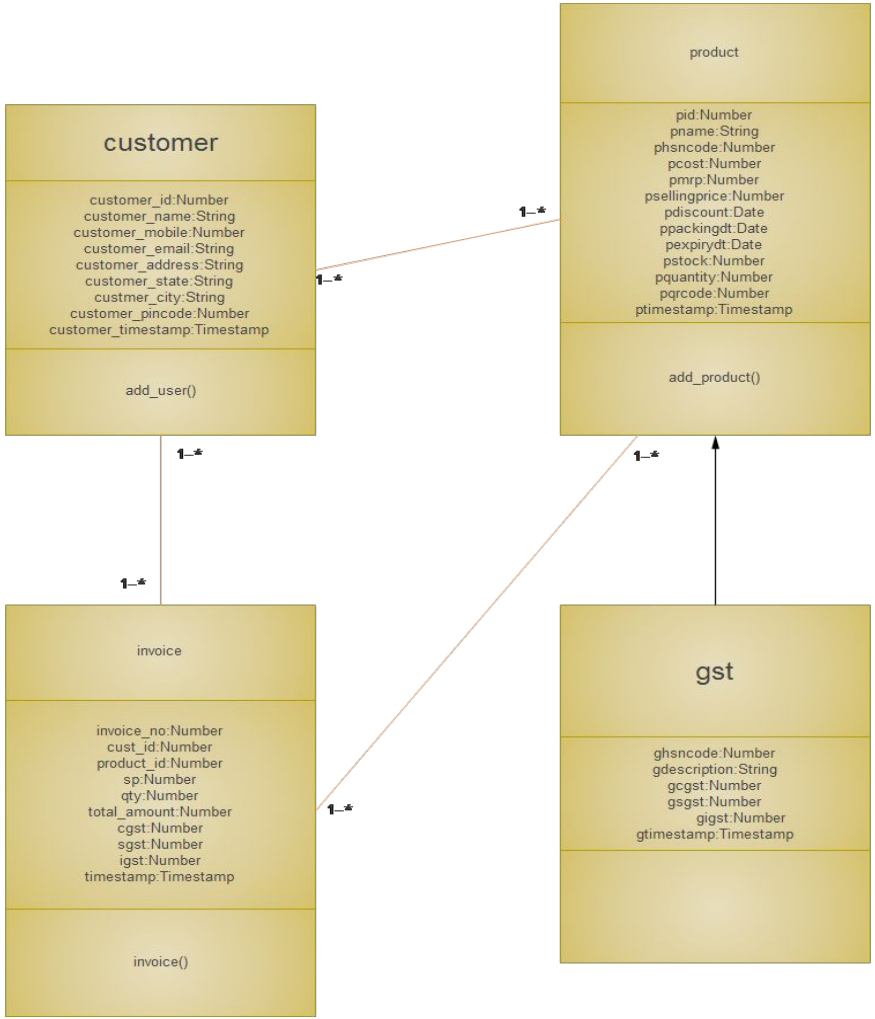
Group-2



Activity Diagram

DMS-Sales Return

Group-2



Class Diagram

DMS Inventory Management System

Group-2

Sequence Diagram

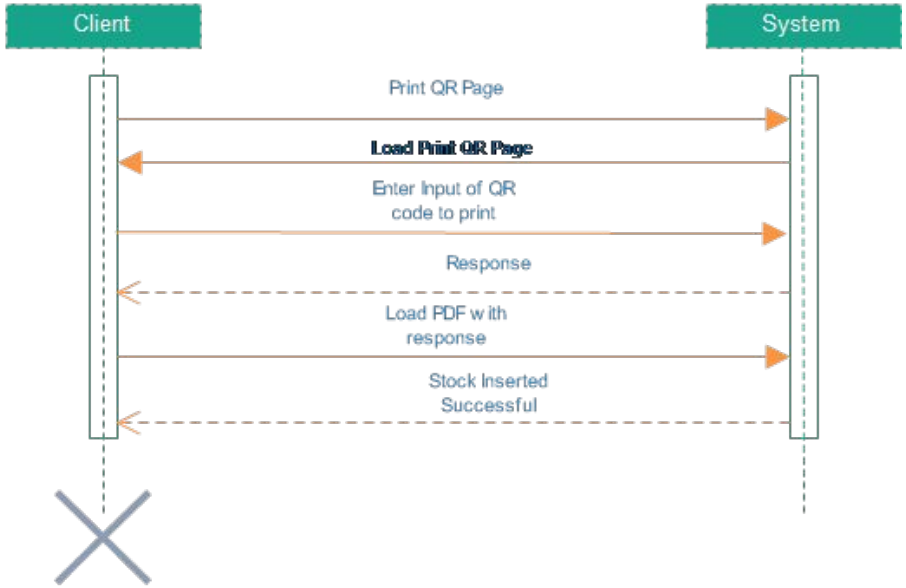
DMS-Login

Group-2

Sequence Diagram

DMS-Add Product

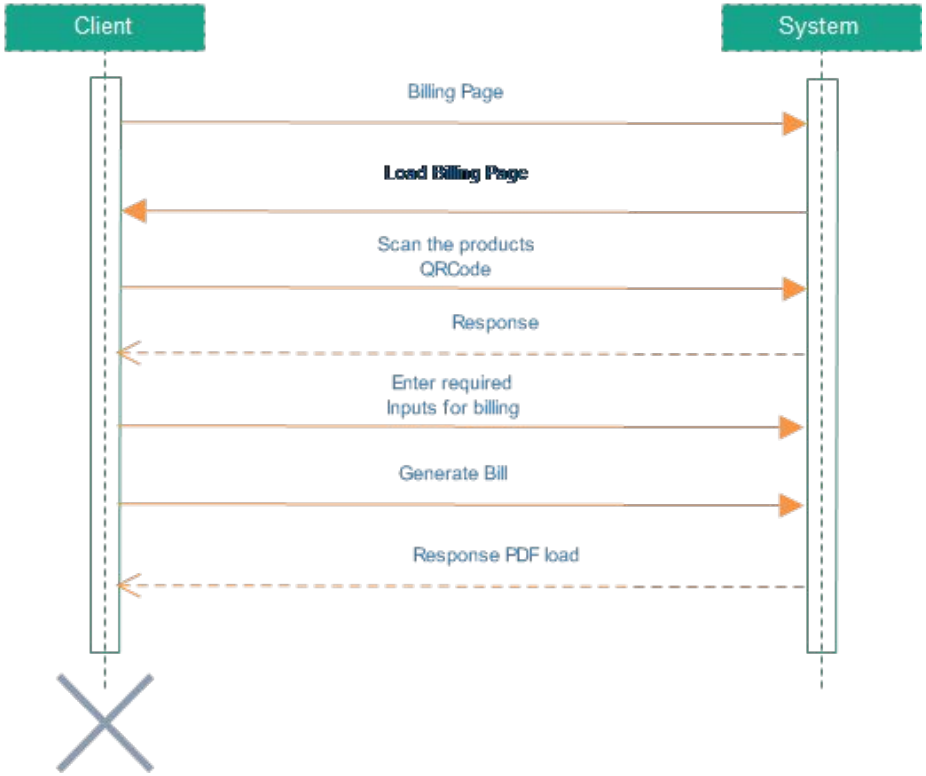
Group-2



Sequence Diagram

DMS-Print QR Code

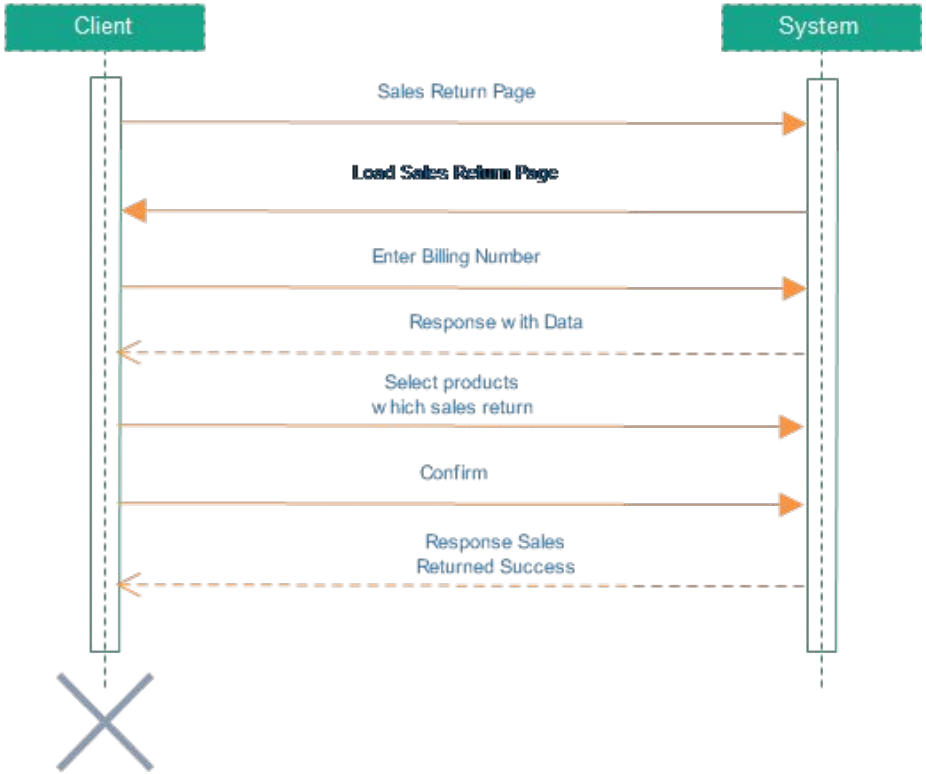
Group-2



Sequence Diagram

DMS-Billing

Group-2



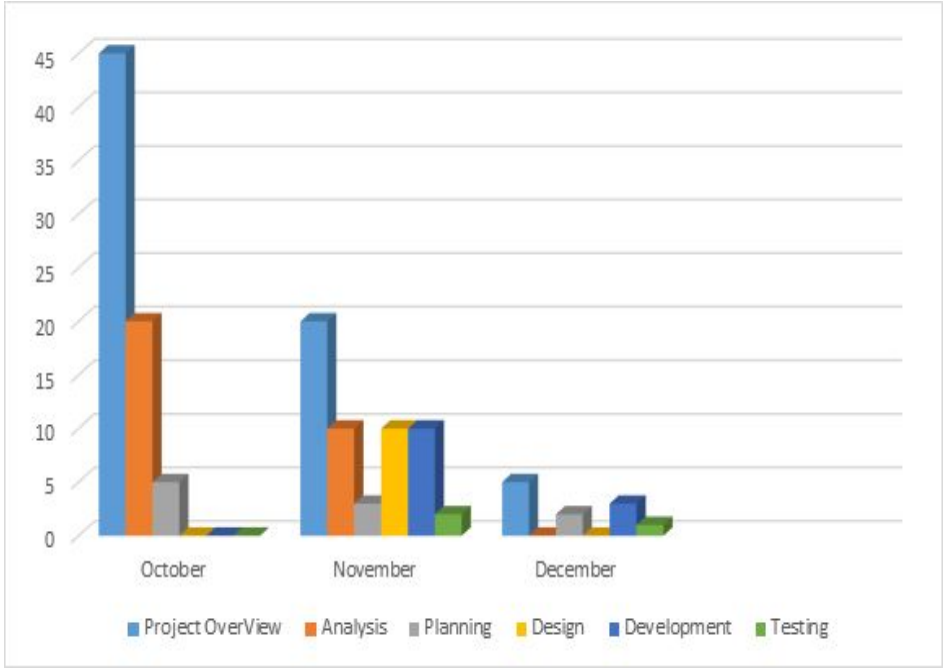
Sequence Diagram

DMS-Sales Return

Group-2

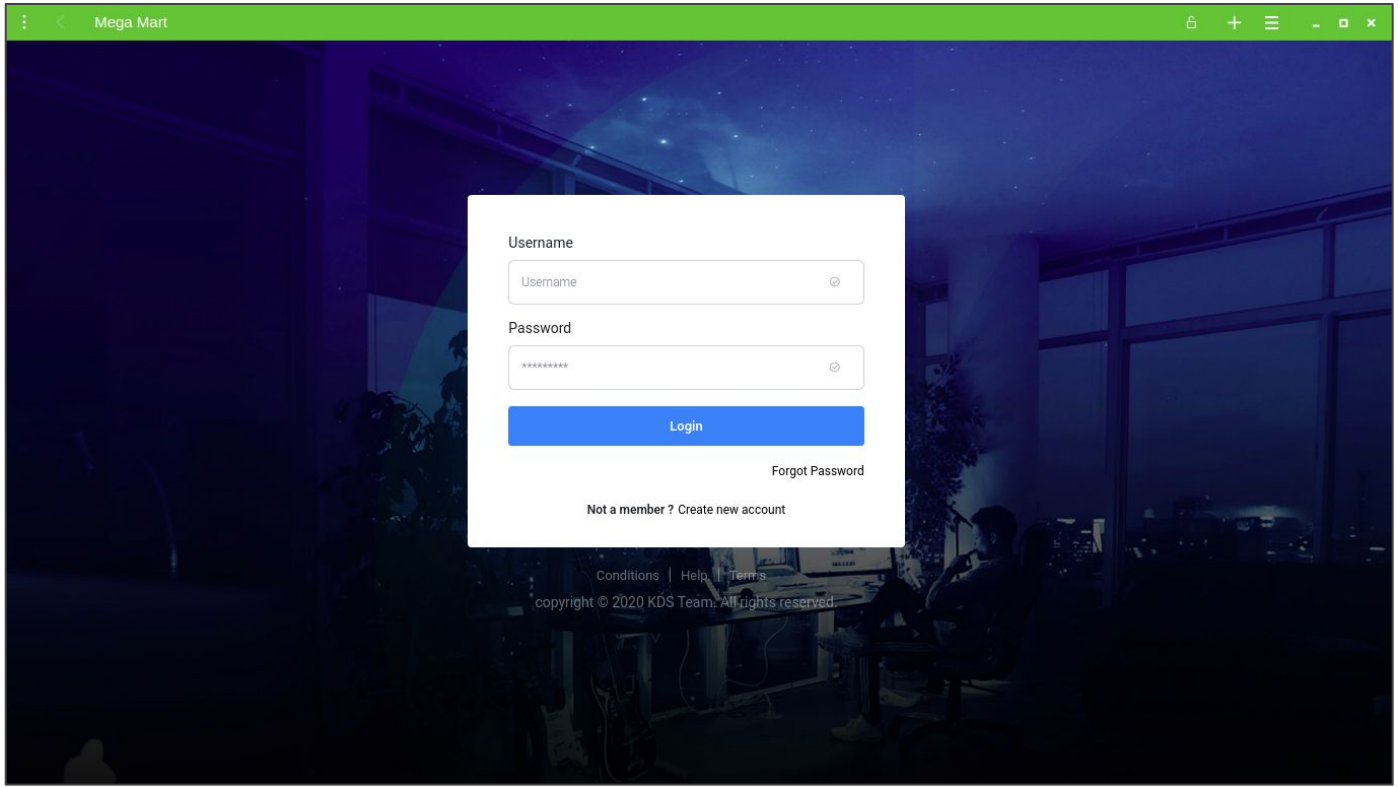
Timeline Chart

DMS Inventory Management System



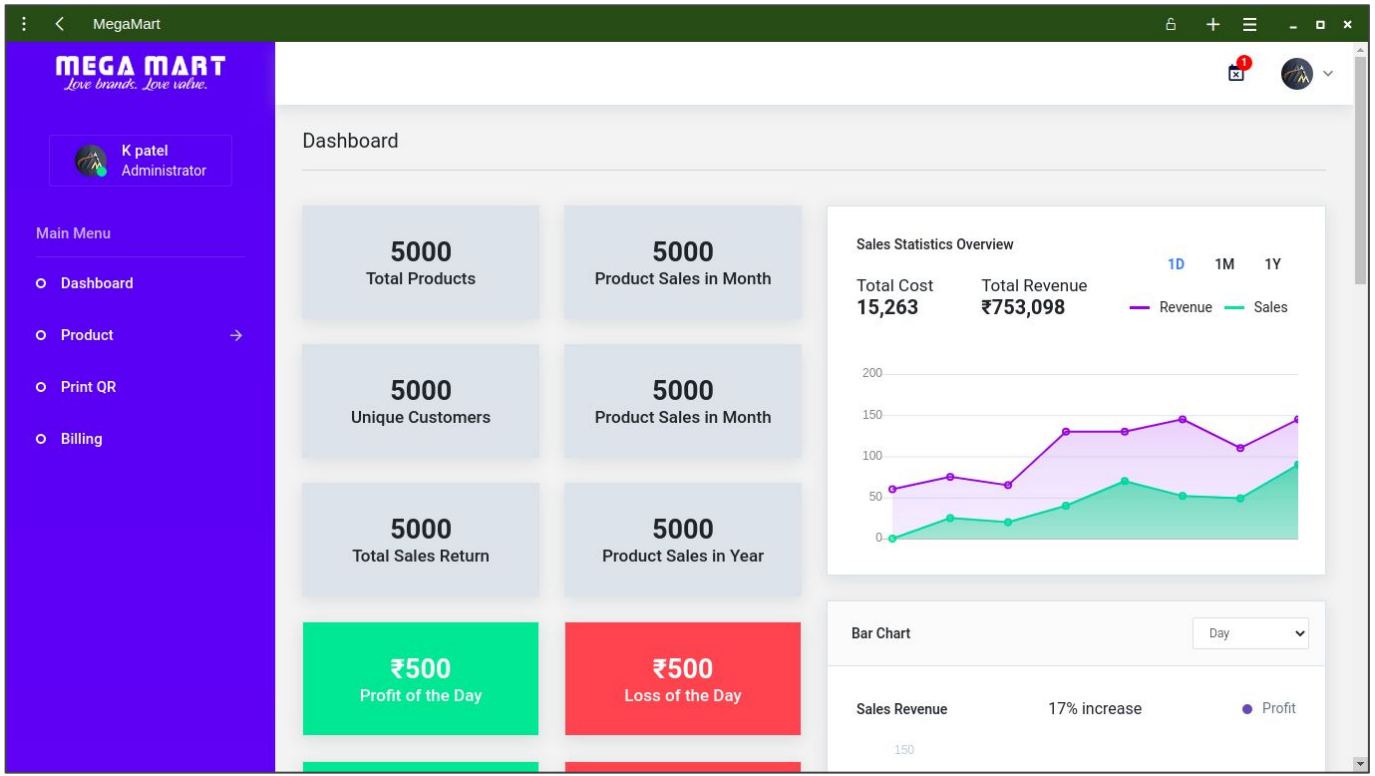
Group-2

Screenshots



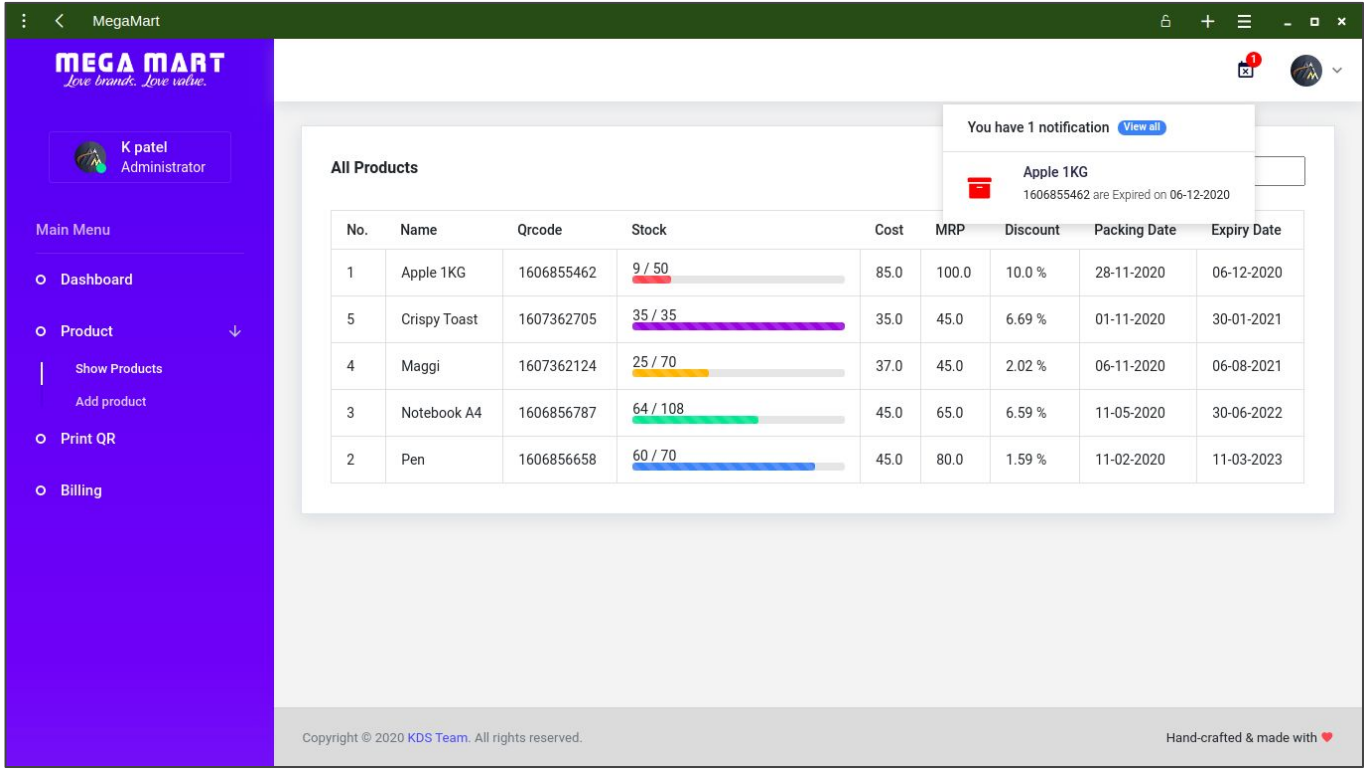
Login

Screenshots (Continue...)



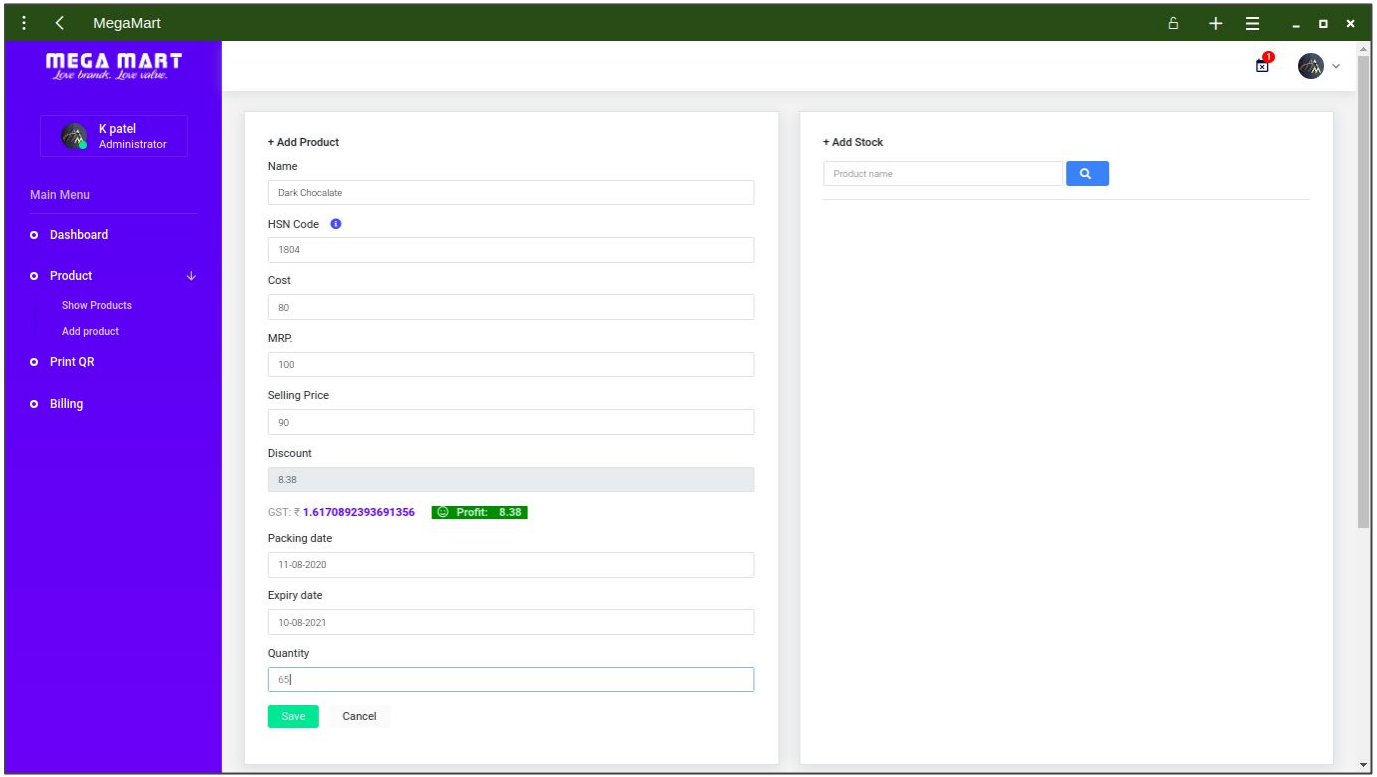
Dashboard

Screenshots (Continue...)



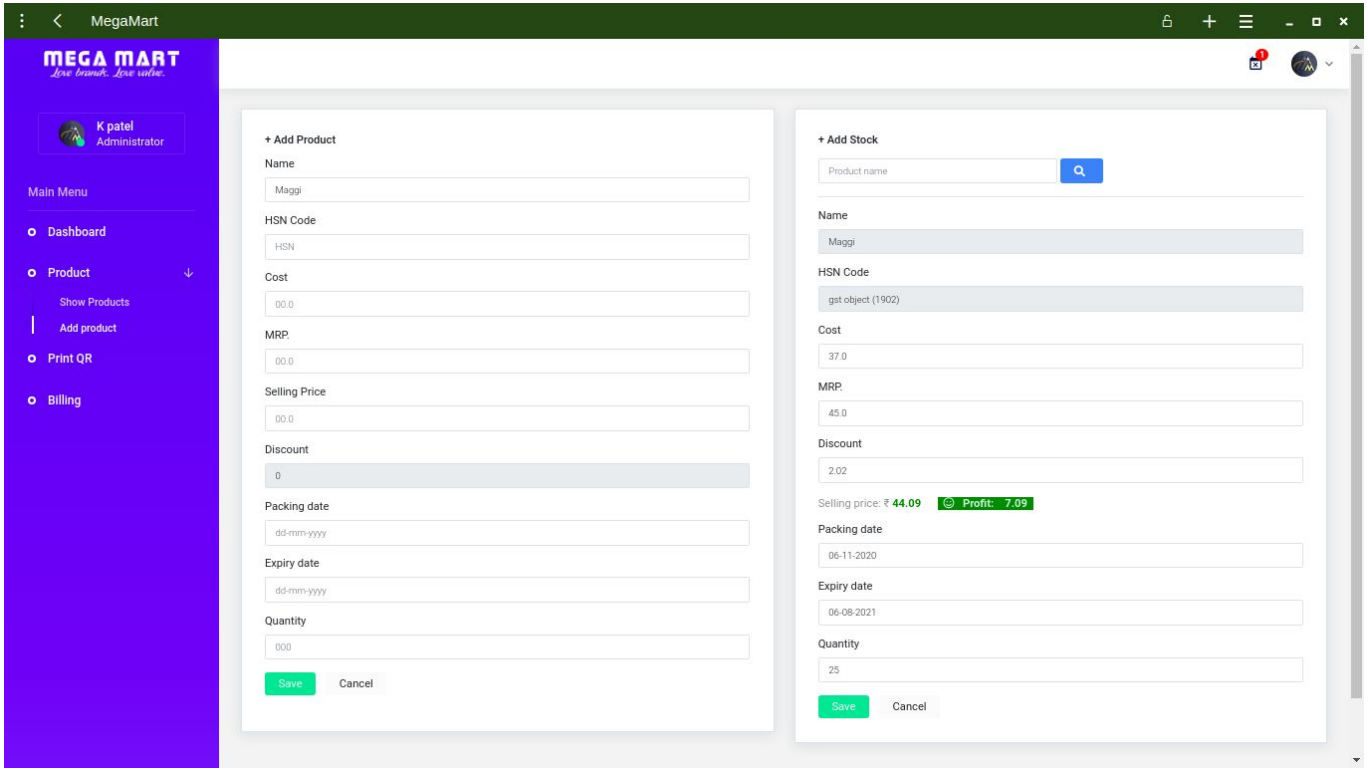
All Products and Notification of Expired Products

Screenshots (Continue...)



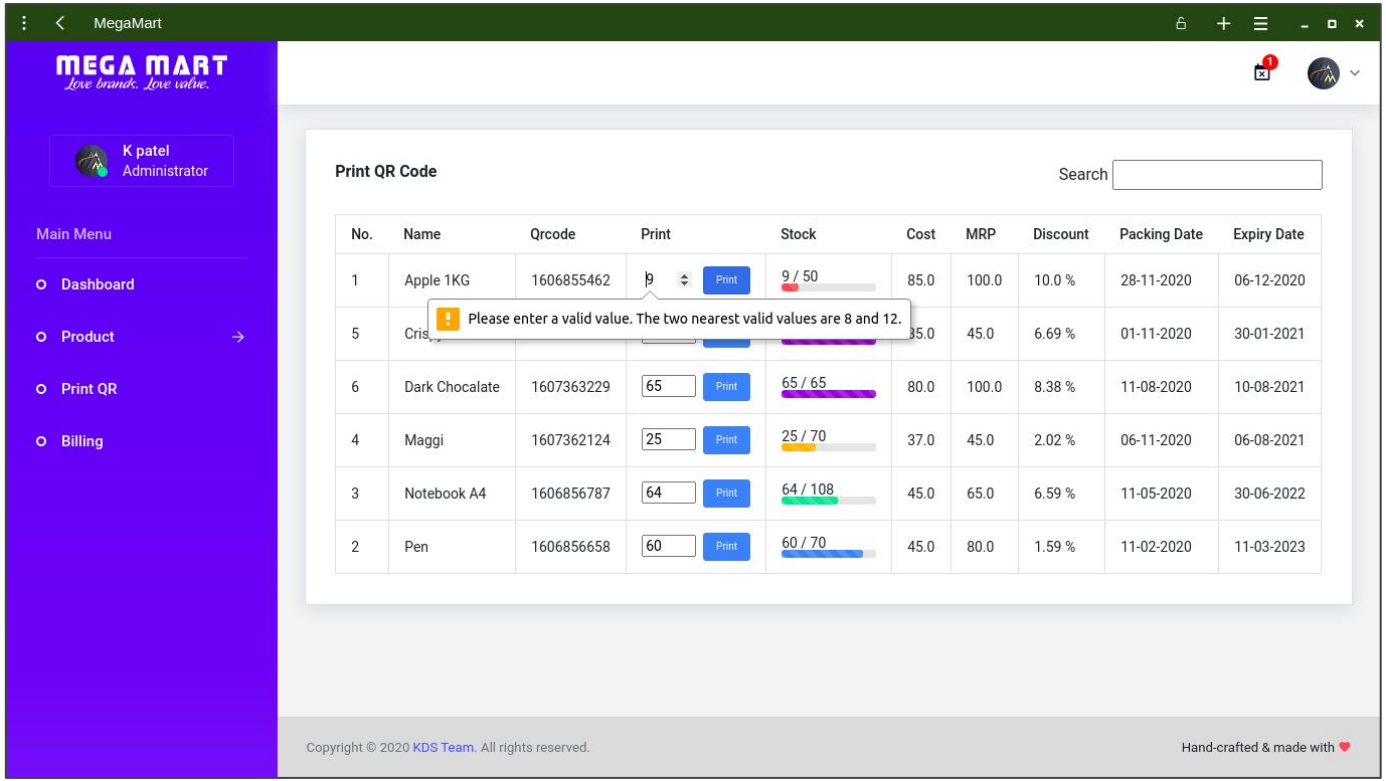
Add Products

Screenshots (Continue...)



Adding Products with same which is already inserted

Screenshots (Continue...)

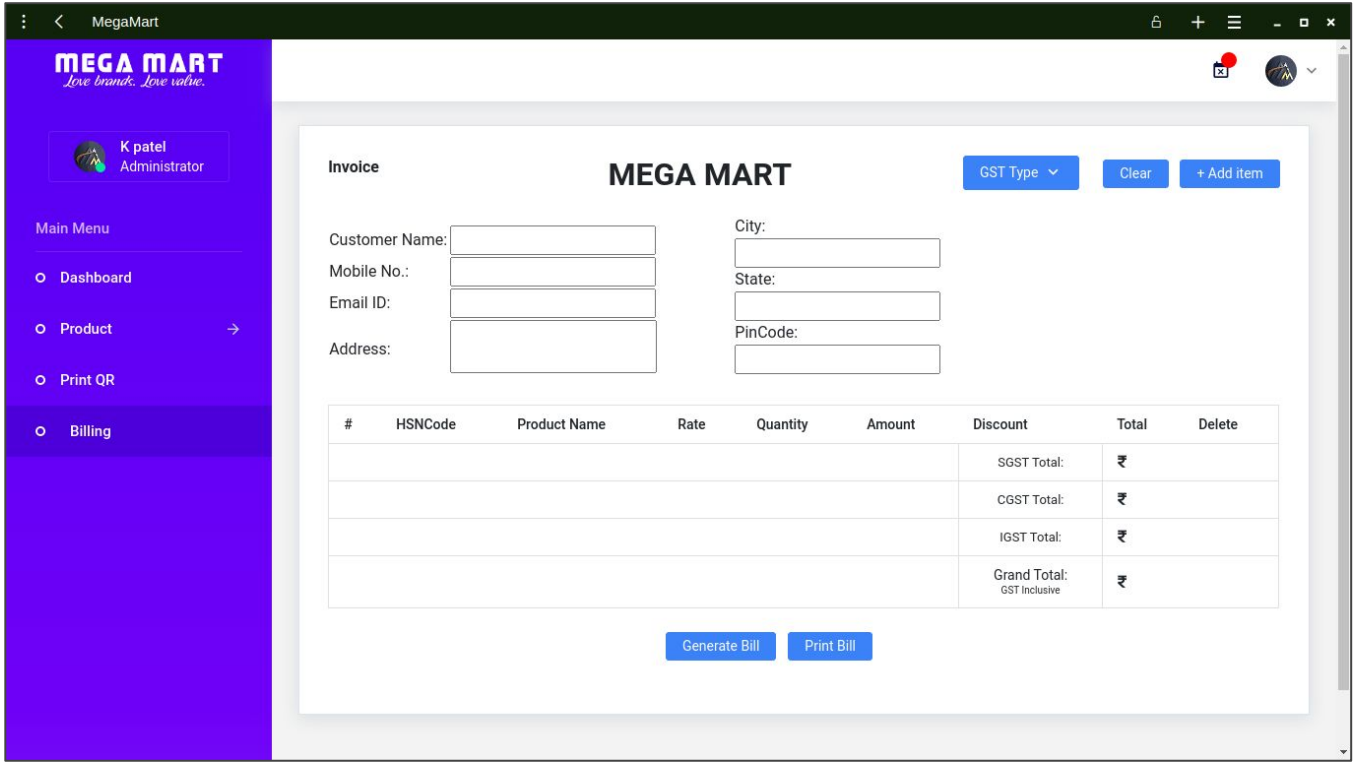


Print QR Code

Screenshots (Continue...)

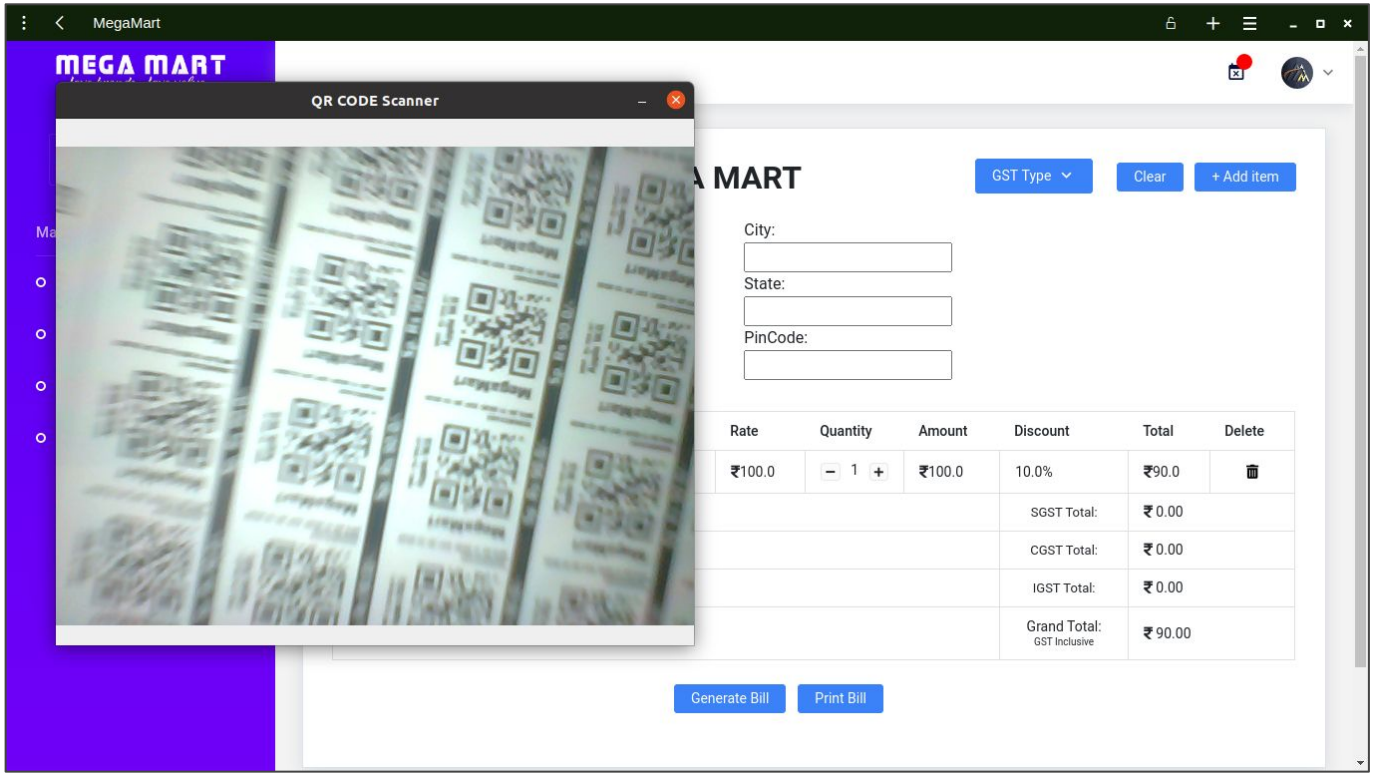
Downloading PDF of QR Code

Screenshots (Continue...)



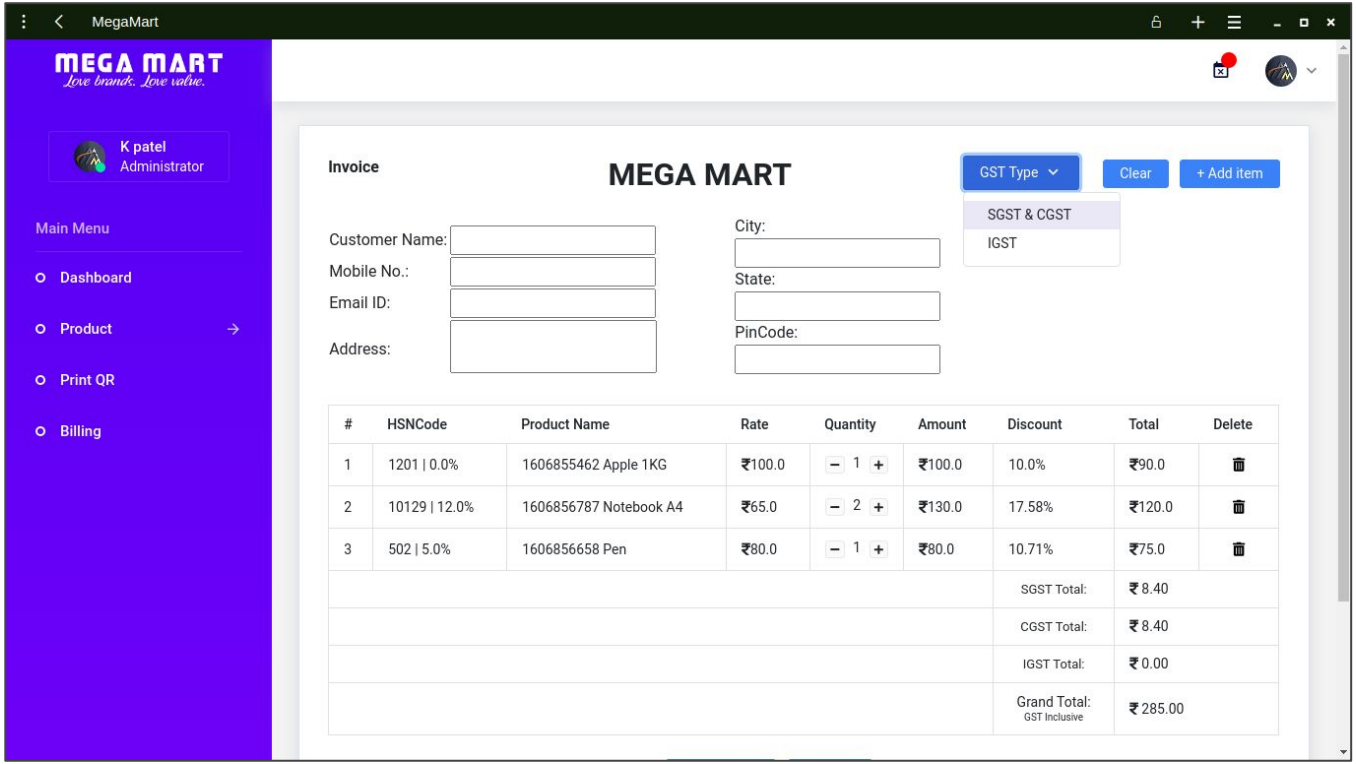
Billing

Screenshots (Continue...)



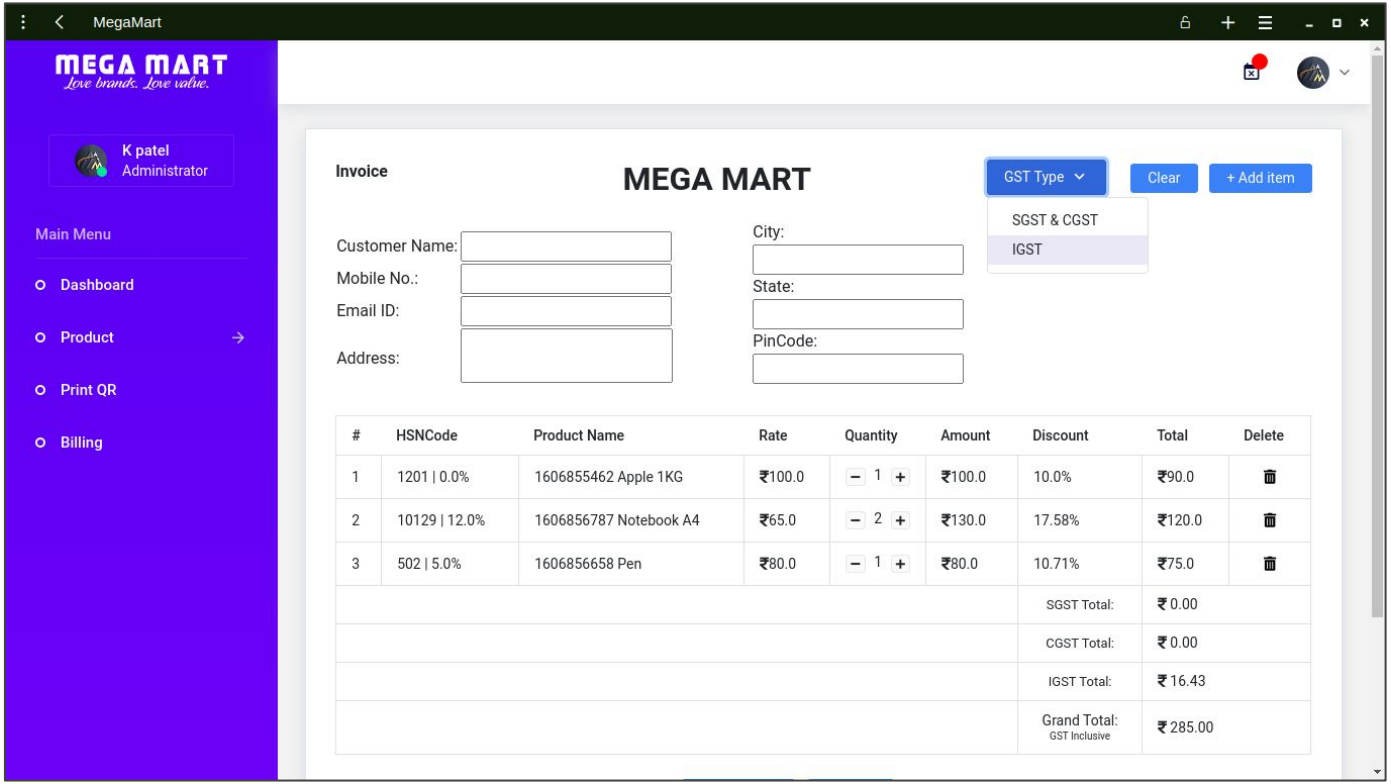
Adding Item with QR Code Scanner

Screenshots (Continue...)



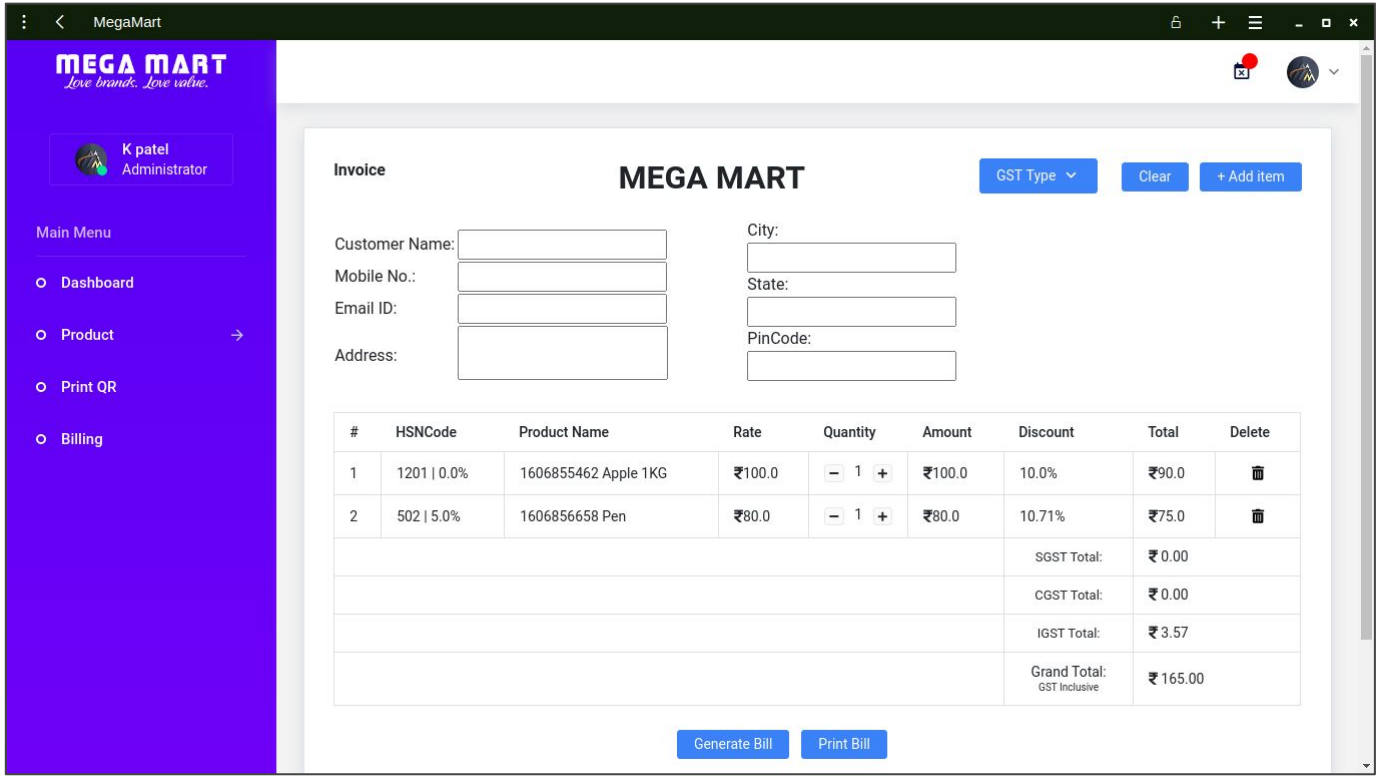
Default GST type is SGST & CGST

Screenshots (Continue...)



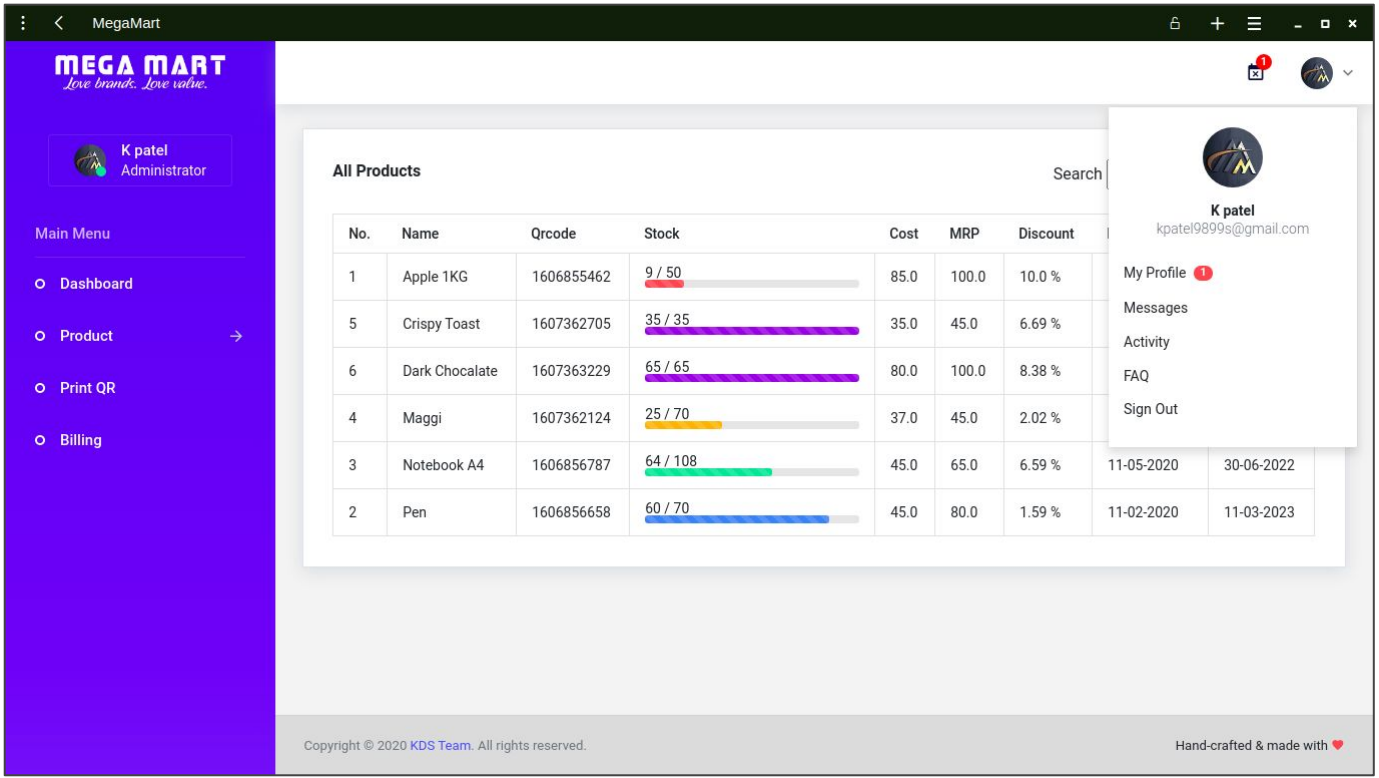
Changing to GST type IGST

Screenshots (Continue...)



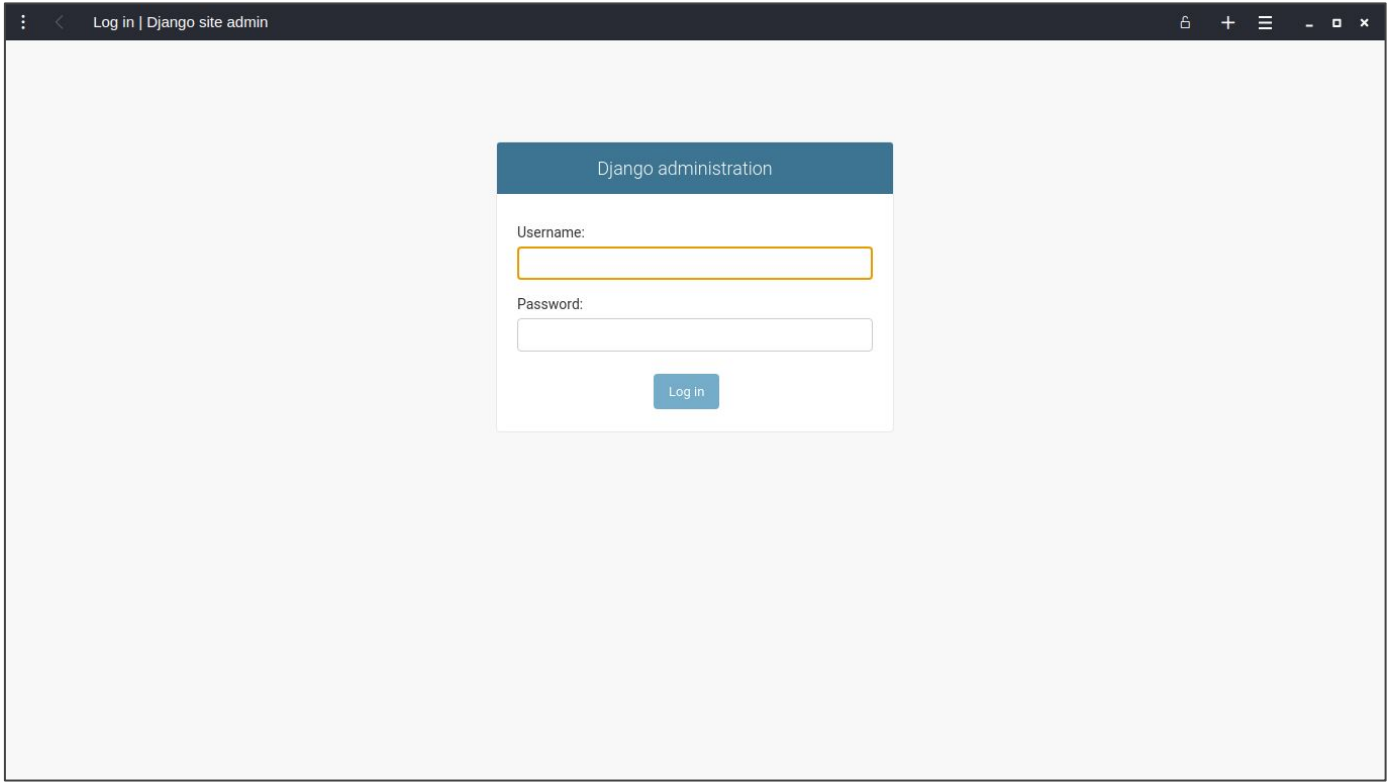
Deleting Item from billing products

Screenshots (Continue...)



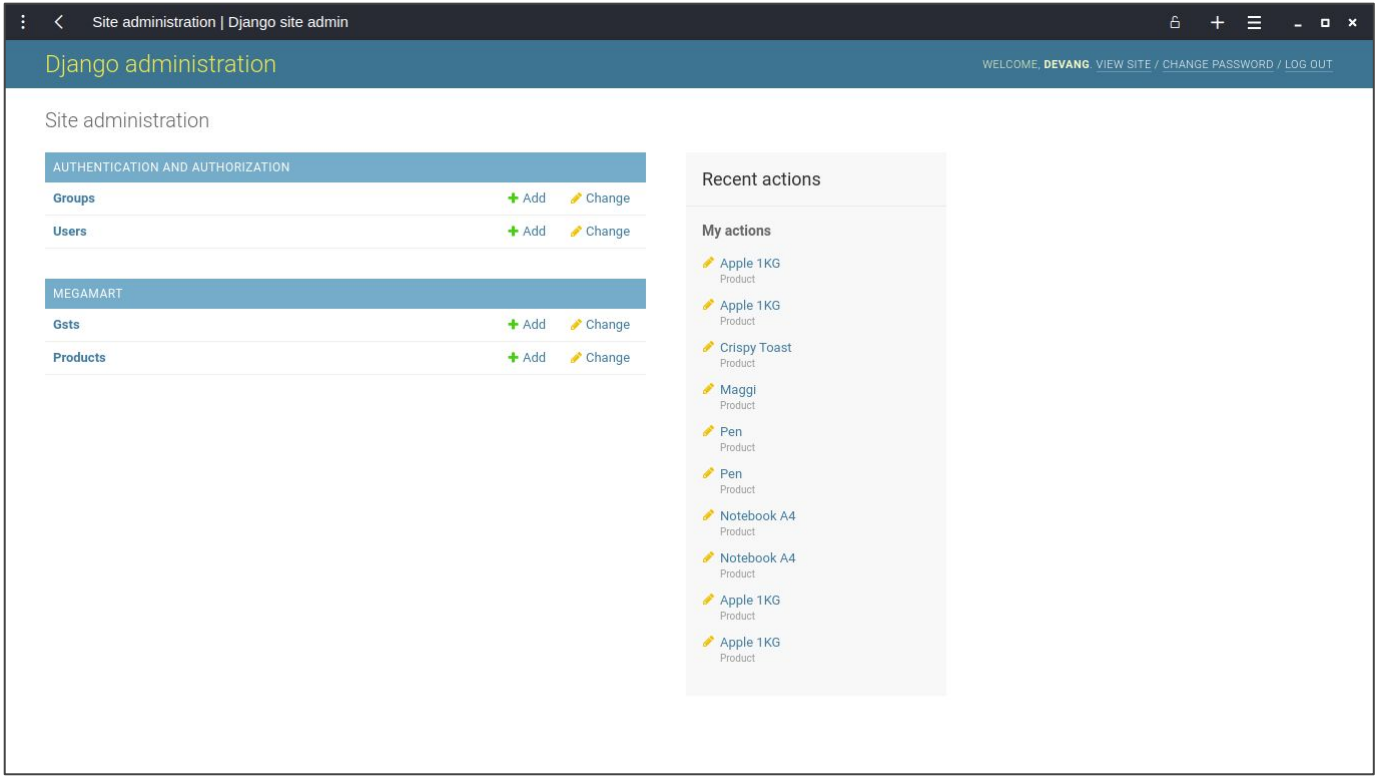
Logout

Screenshots (Continue...)



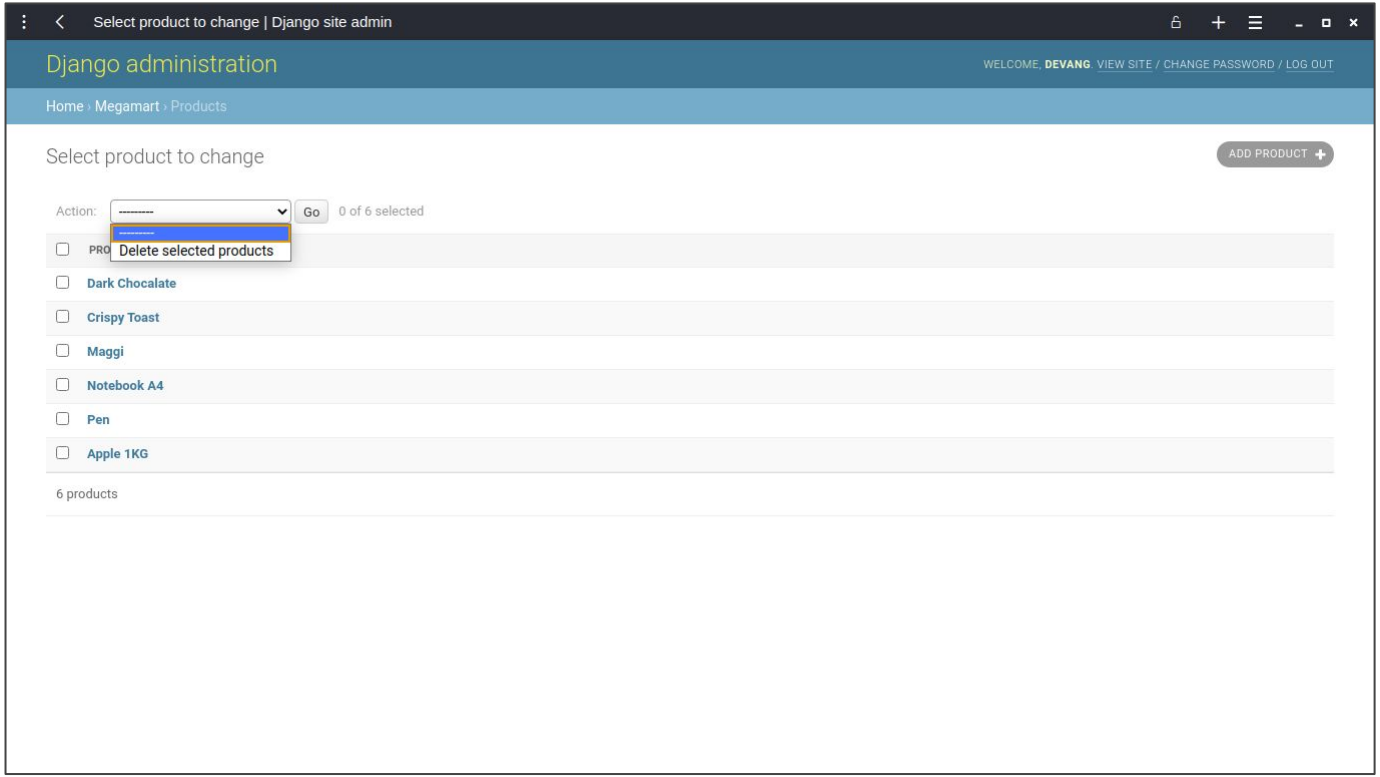
Admin Login

Screenshots (Continue...)



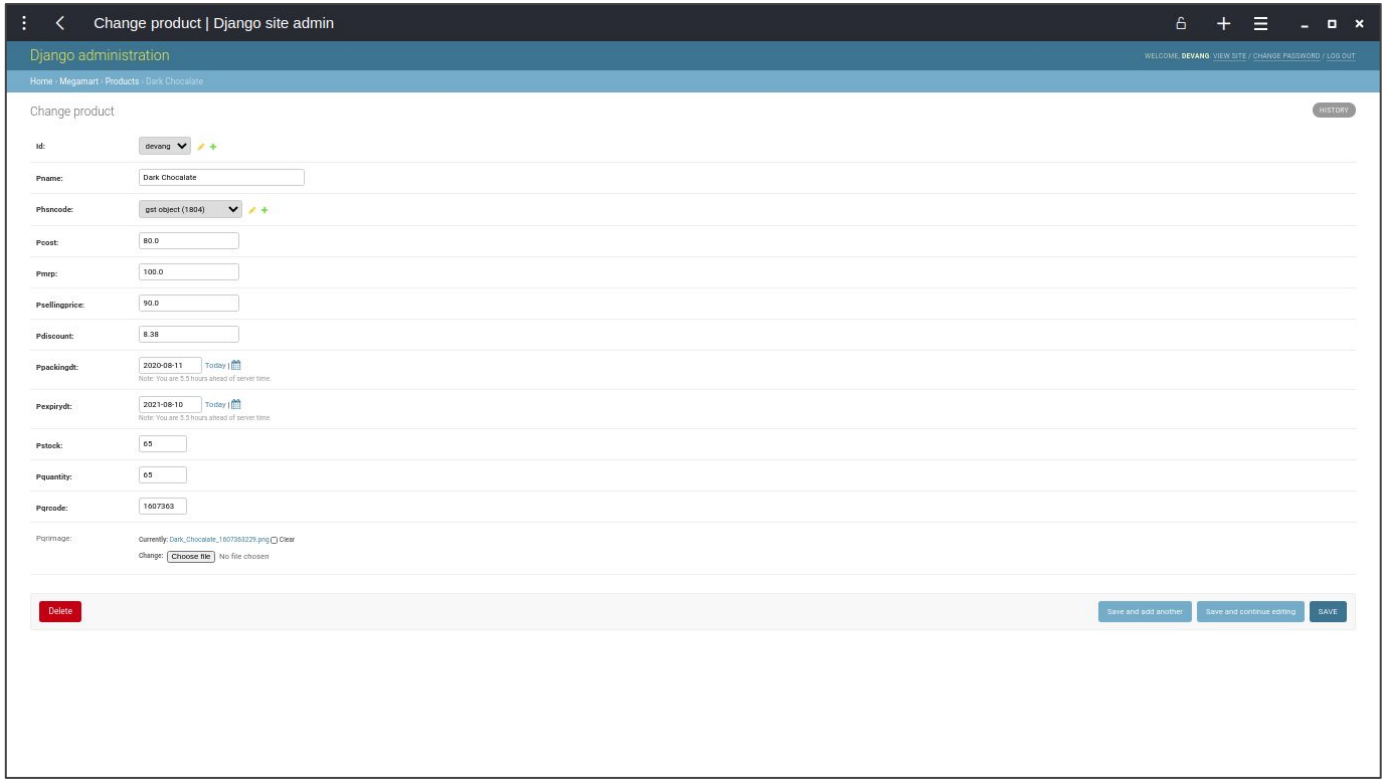
Admin Dashboard

Screenshots (Continue...)



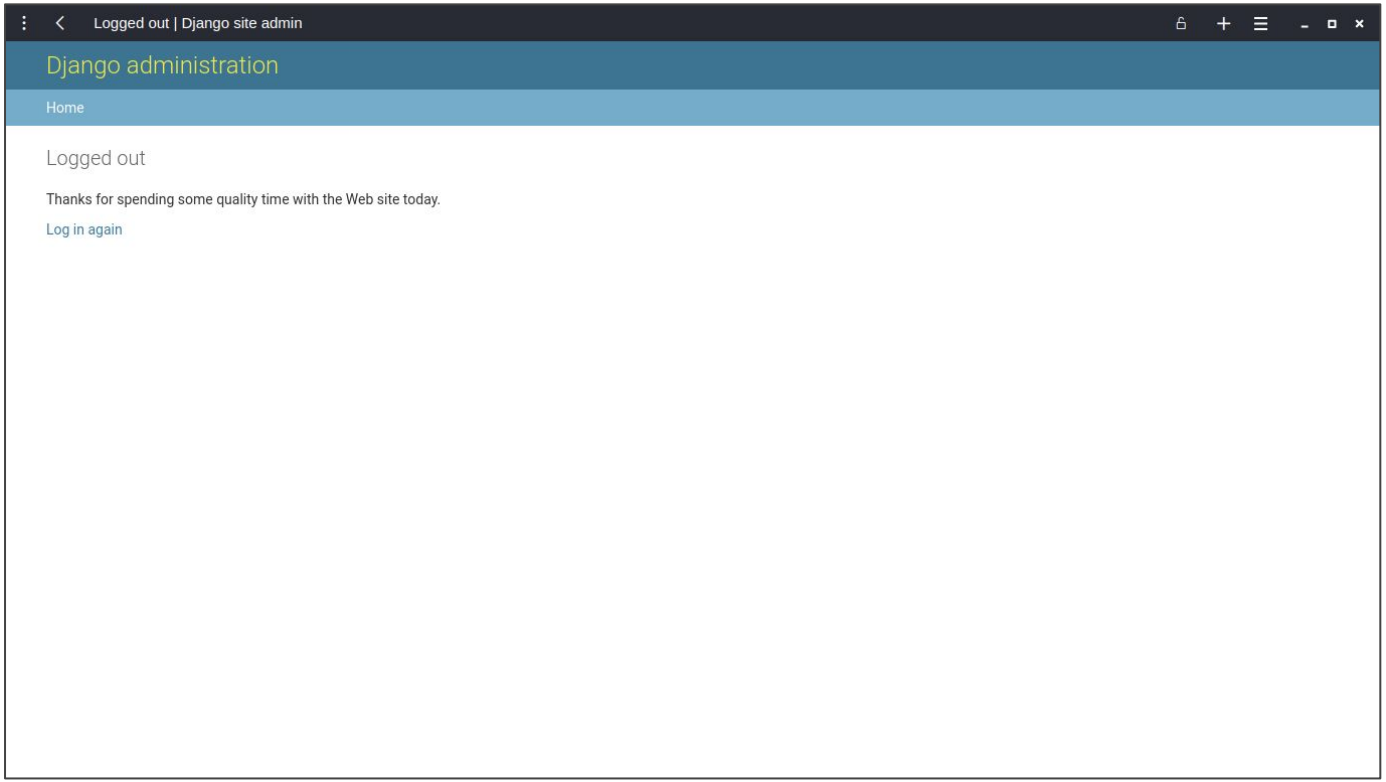
Admin Checking and Deleting products from product table

Screenshots (Continue...)



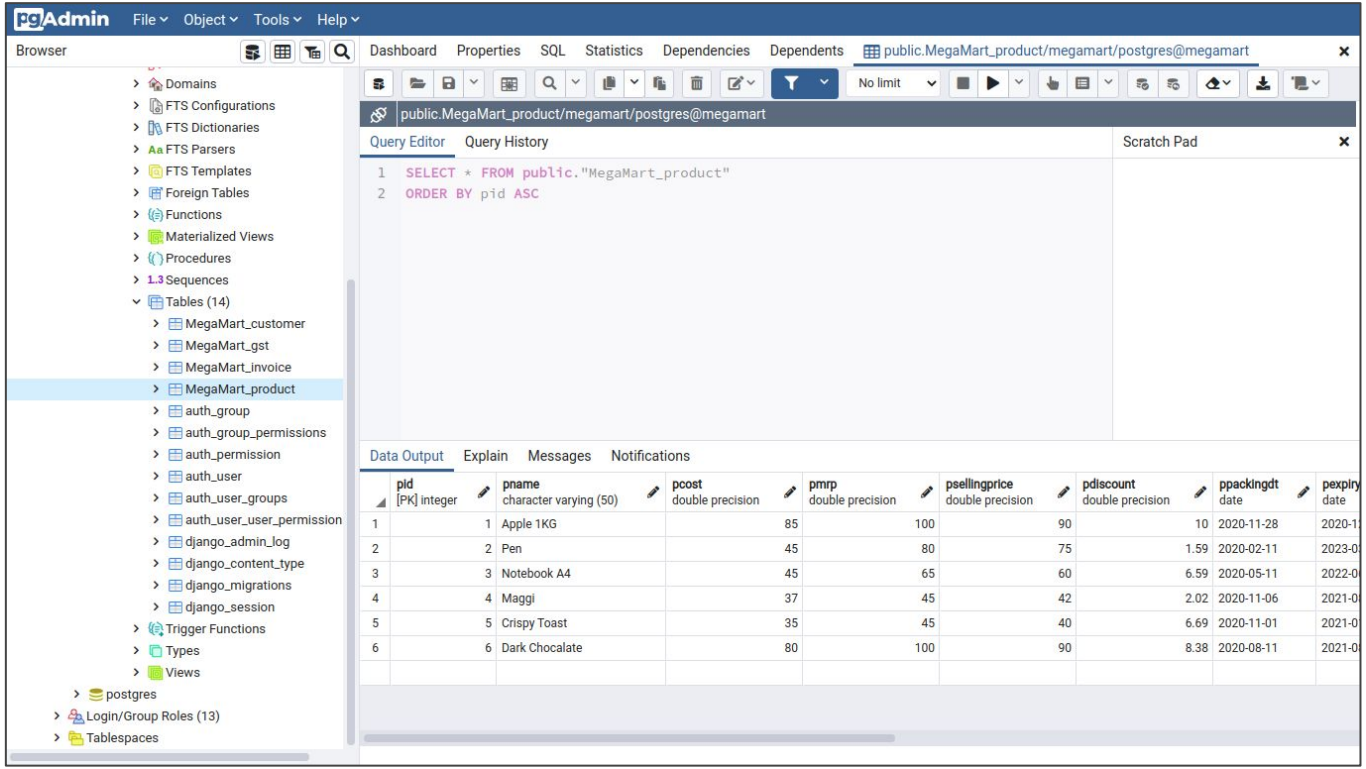
Admin Modifing Inserted Record in product table

Screenshots (Continue...)



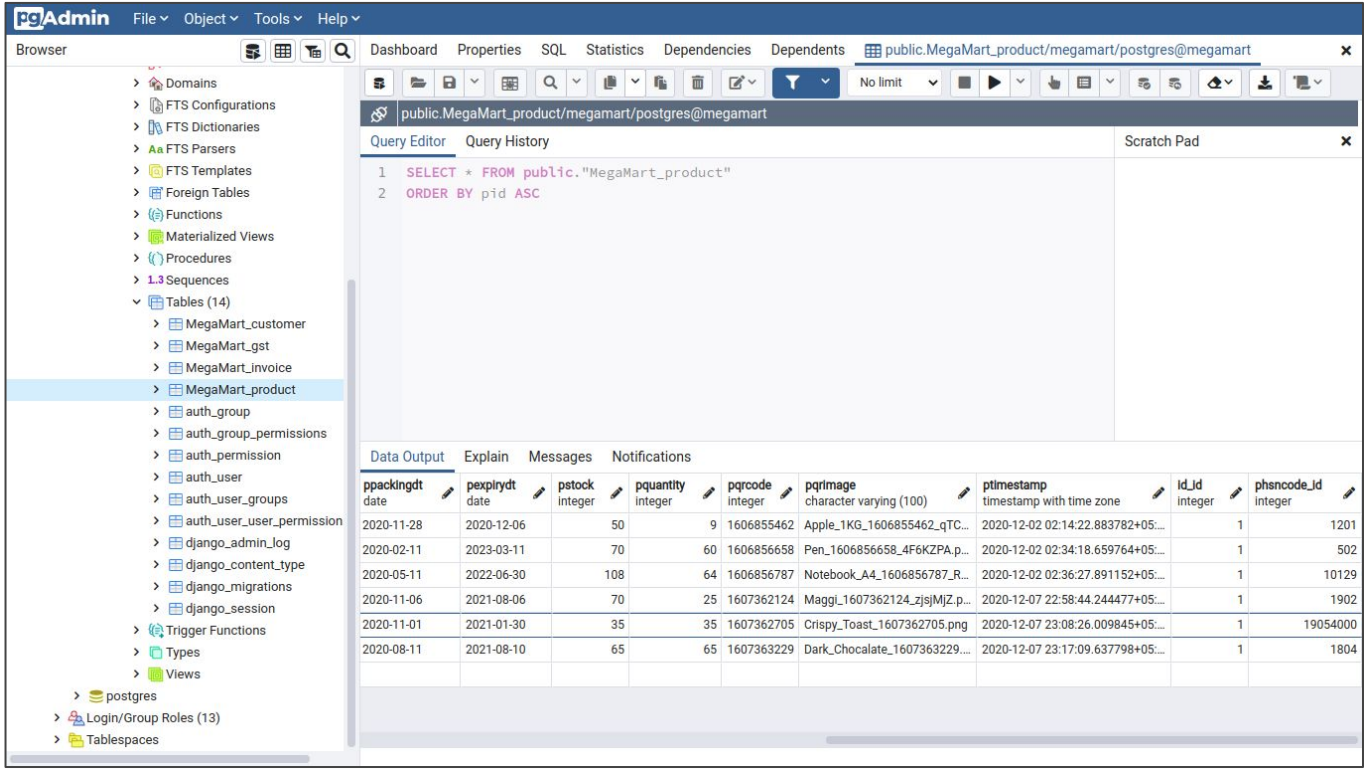
Admin Logout

Screenshots (Continue...)



Admin Postres Database view 1

Screenshots (Continue...)



Admin
Postres Database
view 2

Thank you

Group-2
Team Members

191823002 | Aghera Kevin Bipinbhai
+91 81401 69137 | kevinaghera1999@gmail.com

191823011 | Garach Devang Bharatbhai
+91 84603 52525 | devanggarach@gmail.com

191823008 | Changela Savan Prasudbhai
+91 95378 39403 | savanchangela273@gmail.com

Master of Computer Applications
[Batch 2019-2021]