

PROJECT DUDEPANDA

Project Members;

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Introduction

Database Management Systems is one of the Course that Computer Science Students at Habib University have to take in order to complete their course requirements. The course aims to target the concept of databases, their management and targets some concepts of Data Science. Part of the Course Requirements is create a project that aims to satisfy a real business scenario, incorporating all the principles taught in the Course.

My friends and I created a website and named it Dudepanda, a website where people can order bakery items and get it delivered to their place. Following is a detailed description of our project and the steps carried out to complete it.

Business Scenario

Dudepanda is a simple ecommerce marketplace of bakeries located in karachi. Customers can save themselves from the hassle of going to the bakery and buying items rather place an order through this website and get it delivered directly to their place like ordering a birthday cake for their loved ones.

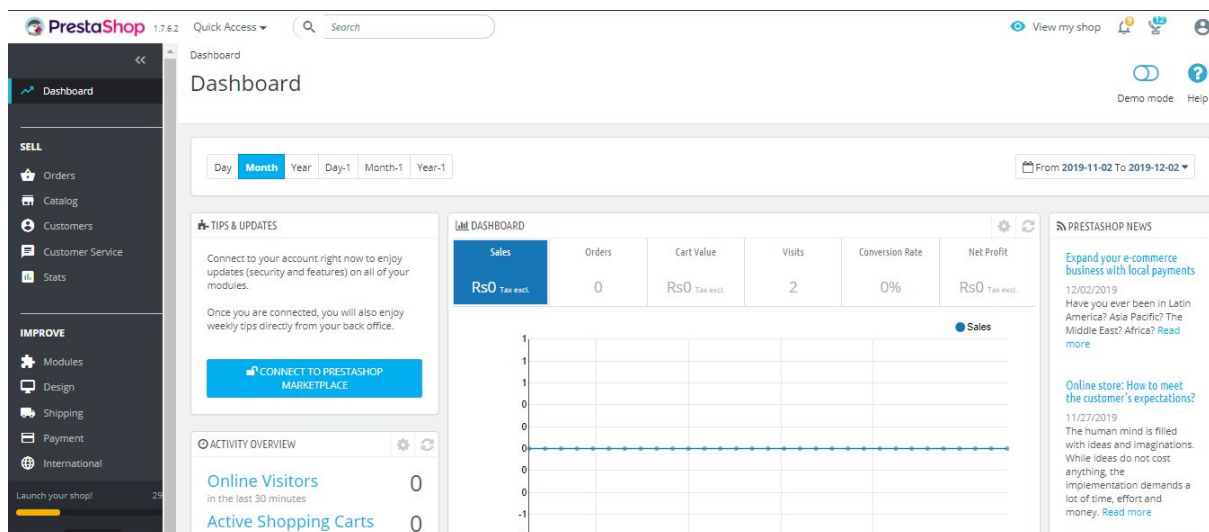
The website required a database which would essentially contain the data of All the Vendors, Customers, Food items, Orders etc. So the first job was to decide and create an entity relationship diagram (ERD) that would form the basis of our Database.

Since creating a website and then launching it meant for us to buy a domain, we just made an offline website using Prestashop.

MODULES & FUNCTIONALITY

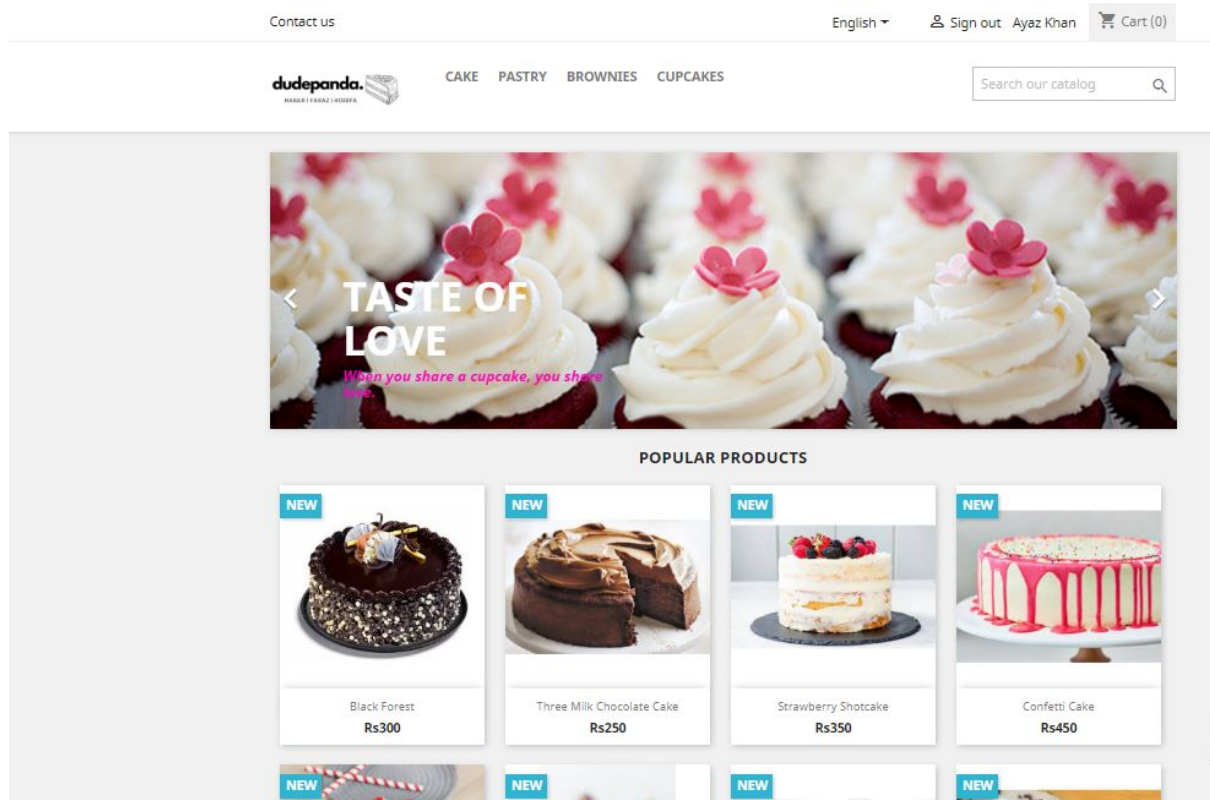
The website has three main interfaces or modules which is the user interface, admin interface and MySQL administration tool.

1) admin interface

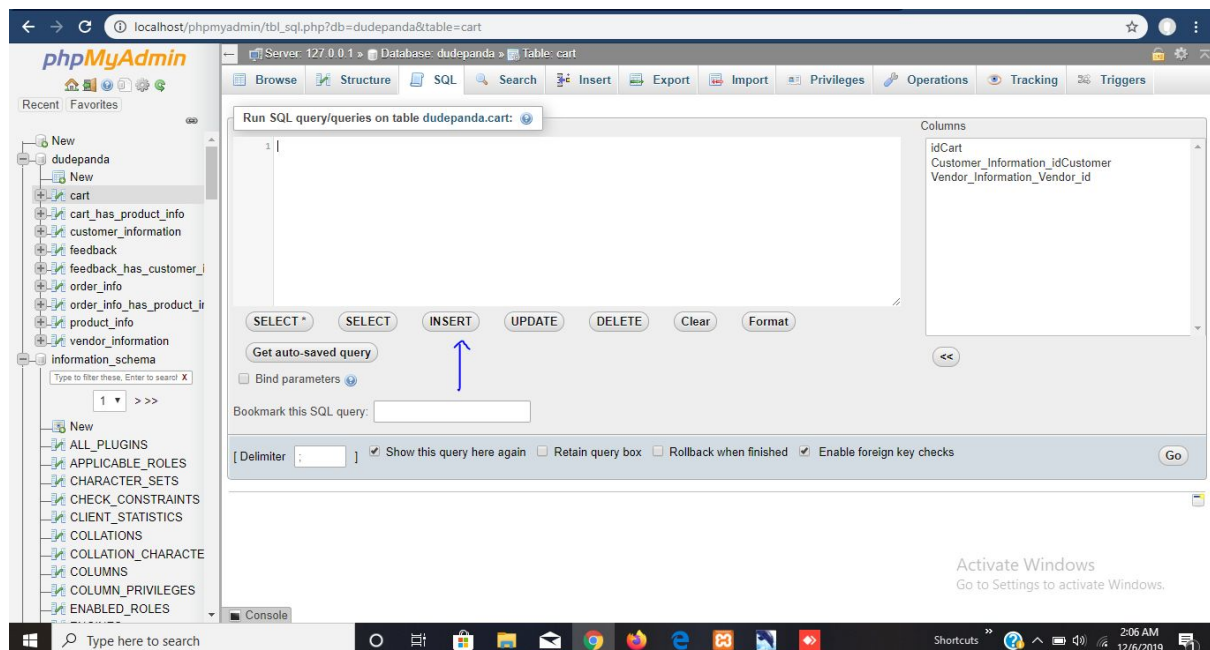


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2) and user interface/Front end



3) MySQL administration tool;

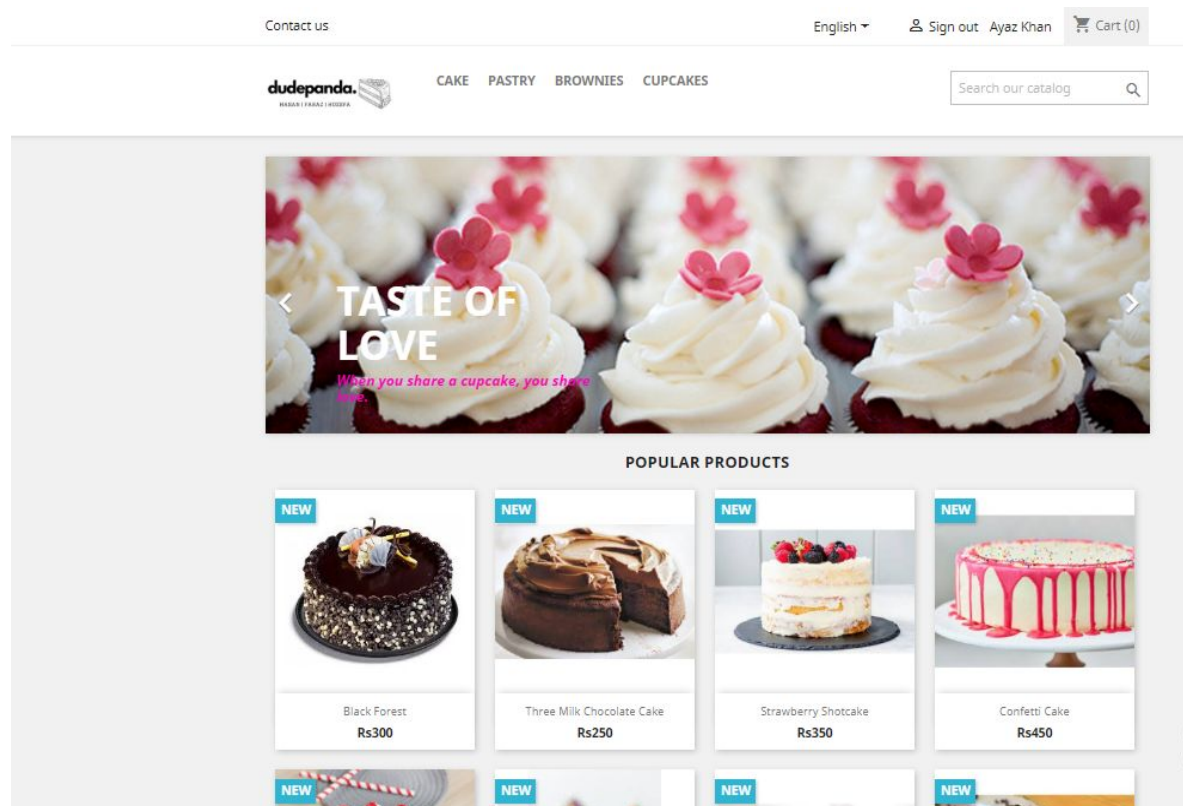


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Now I'll walk you through some of the functionalities of the website.

1) **HOW TO ORDER AN ITEM**

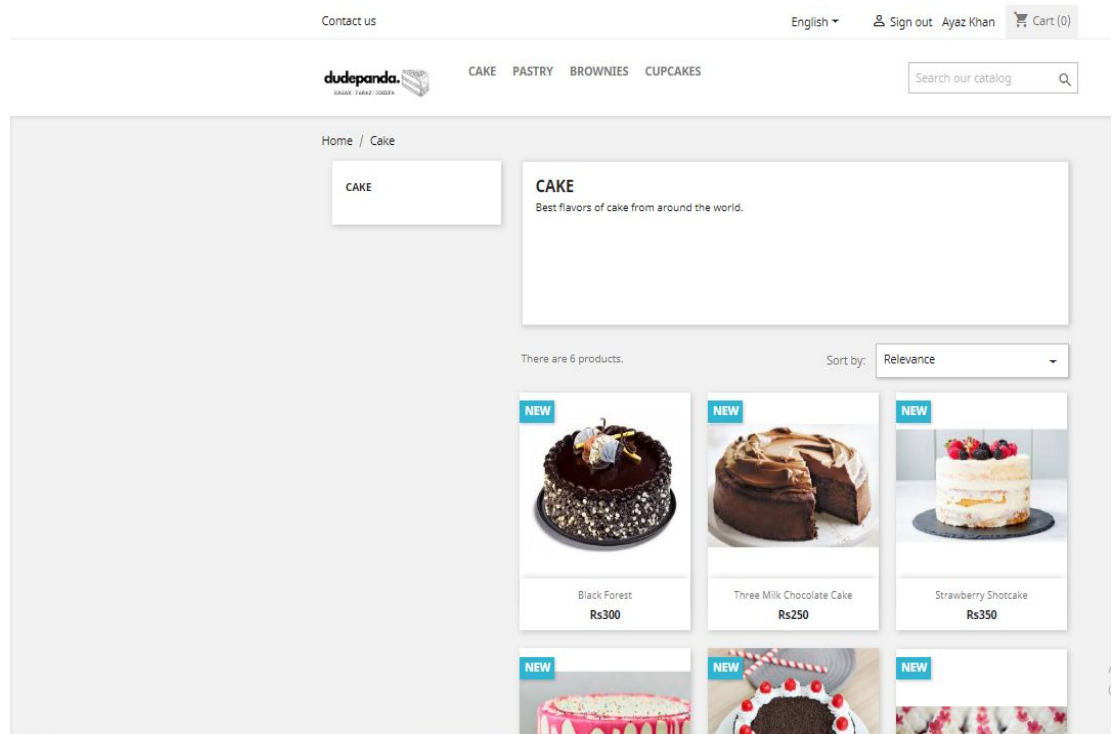
a) Following is the front end;



So let's order a cake

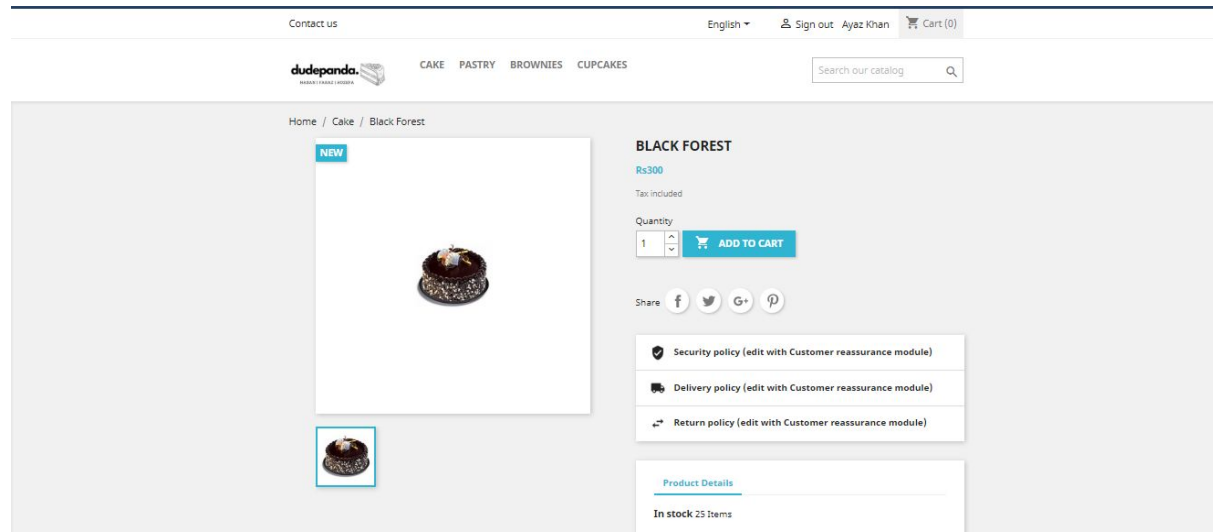
b) Click on *cake* on the top

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The following screen will appear

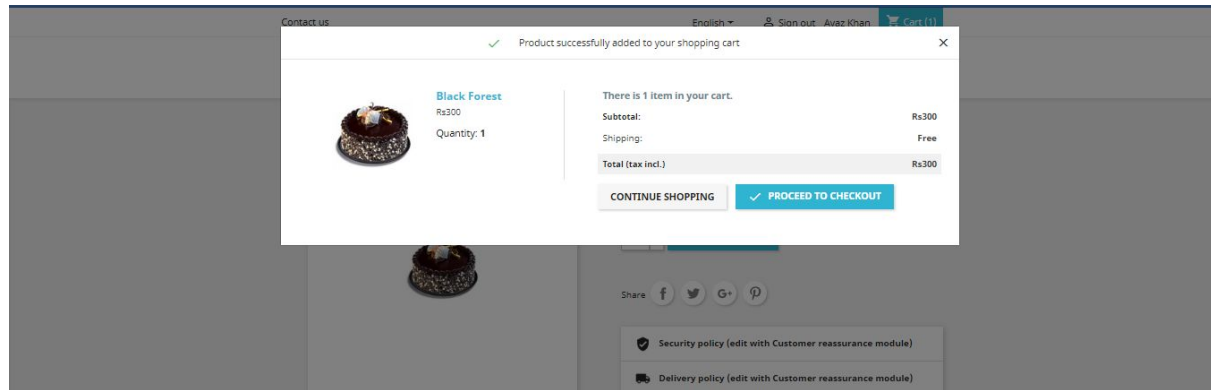
- c) Next choose a cake that you want. I'll be choosing *Black Forest* cuz why not
- d) The following screen will then appear



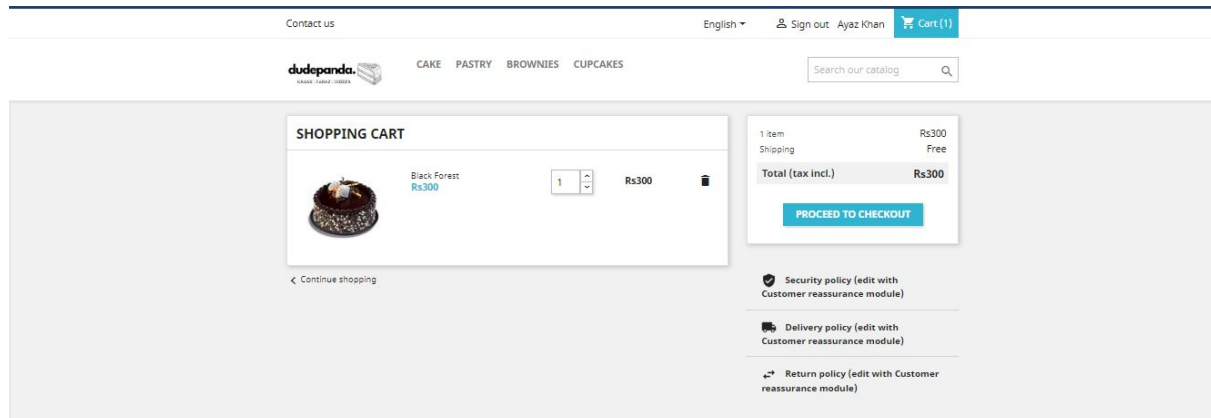
Select the quantity and then press add to cart

- e) On doing so, this window will pop up

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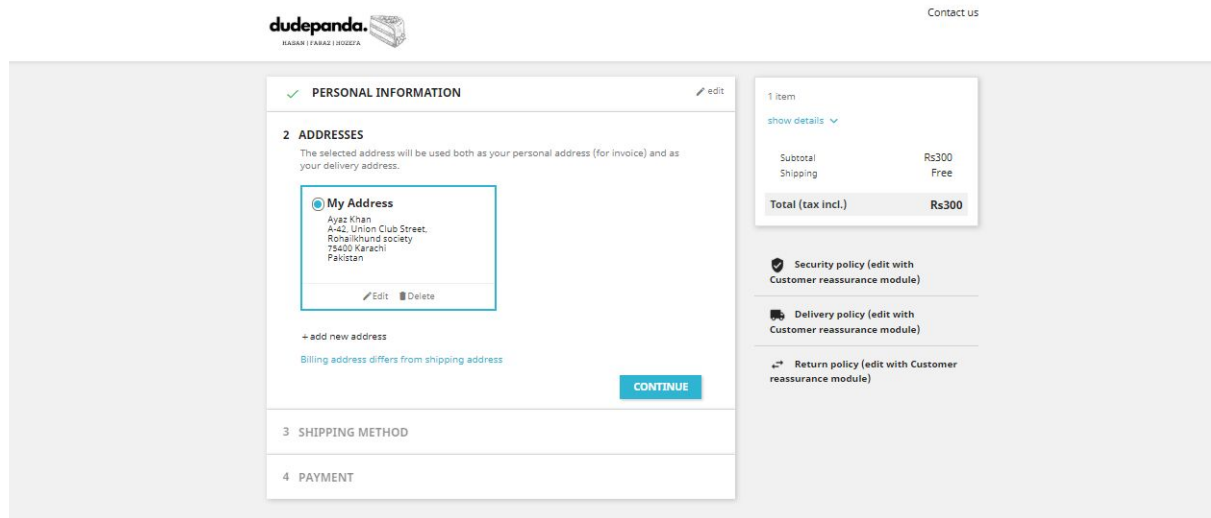


f) If that's all what i want to order, click *Proceed to Checkout*



g)

This window shows the order amount details (shipping cost if any)
click *Proceed to Checkout*



h)

© 2019 - Ecommerce software by PrestaShop™

Edit address and then press continue

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i)

PERSONAL INFORMATION [edit](#)

ADDRESSES [edit](#)

3 SHIPPING METHOD

☒ Dudepanda [Pick up in-store](#) [Free](#)

If you would like to add a comment about your order, please write it in the field below.

[CONTINUE](#)

4 PAYMENT

1 item [show details](#)

Subtotal	Rs300
Shipping	Free
Total (tax incl.)	Rs300

[Security policy \(edit with Customer reassurance module\)](#)

[Delivery policy \(edit with Customer reassurance module\)](#)

[Return policy \(edit with Customer reassurance module\)](#)

j) Press continue again

k)

PERSONAL INFORMATION [edit](#)

ADDRESSES [edit](#)

SHIPPING METHOD [edit](#)

4 PAYMENT

☐ Pay by Check

☐ Pay by bank wire

☒ Pay by Cash on Delivery

You pay for the merchandise upon delivery.

☒ I agree to the [terms of service](#) and will adhere to them unconditionally.

[ORDER WITH AN OBLIGATION TO PAY](#)

1 item [show details](#)

Subtotal	Rs300
Shipping	Free
Total (tax incl.)	Rs300

[Security policy \(edit with Customer reassurance module\)](#)

[Delivery policy \(edit with Customer reassurance module\)](#)

[Return policy \(edit with Customer reassurance module\)](#)


l)

Contact us English [Sign out](#) [Ayez Khan](#) [Cart \(0\)](#)

dudepanda CAKE PASTRY BROWNIES CUPCAKES

YOUR ORDER IS CONFIRMED

An email has been sent to the [ayazhik@gmail.com](#) address. You can also [download your invoice](#)

ORDER ITEMS	UNIT PRICE	QUANTITY	TOTAL PRODUCTS
 Black Forest	Rs300	1	Rs300

Subtotal	Rs300
Shipping and handling	Free
TOTAL (TAX INCL.)	Rs300

ORDER DETAILS:

Order reference: UTBABKJCU

Payment method: Cash on delivery (COD)

Shipping method: Dudepanda

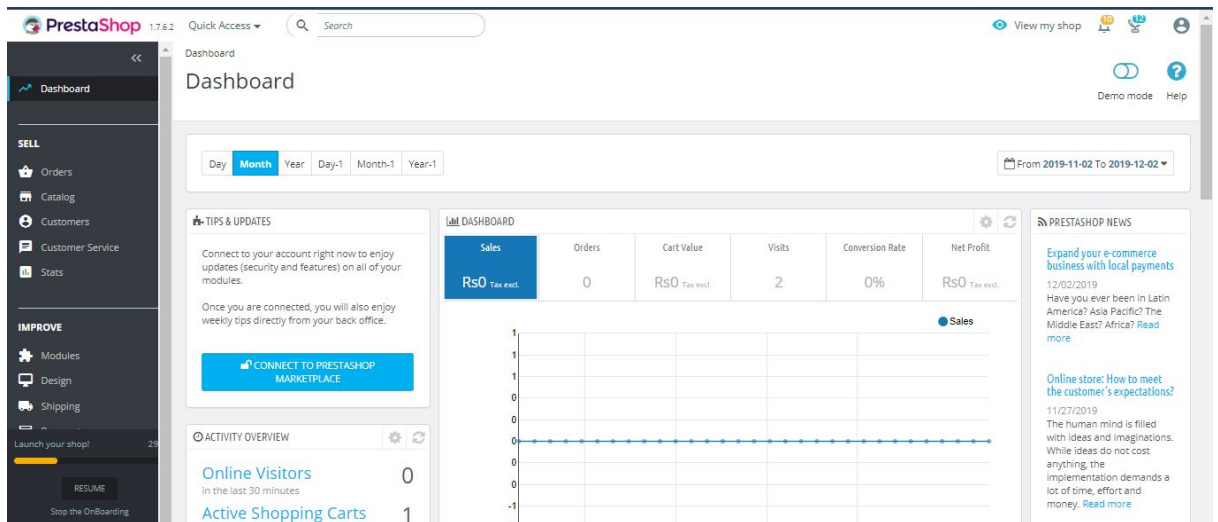
Pick up in-store

Order successfully placed

2) HOW TO CHANGE PRODUCT DETAILS FROM ADMIN

a) Open the admin interface

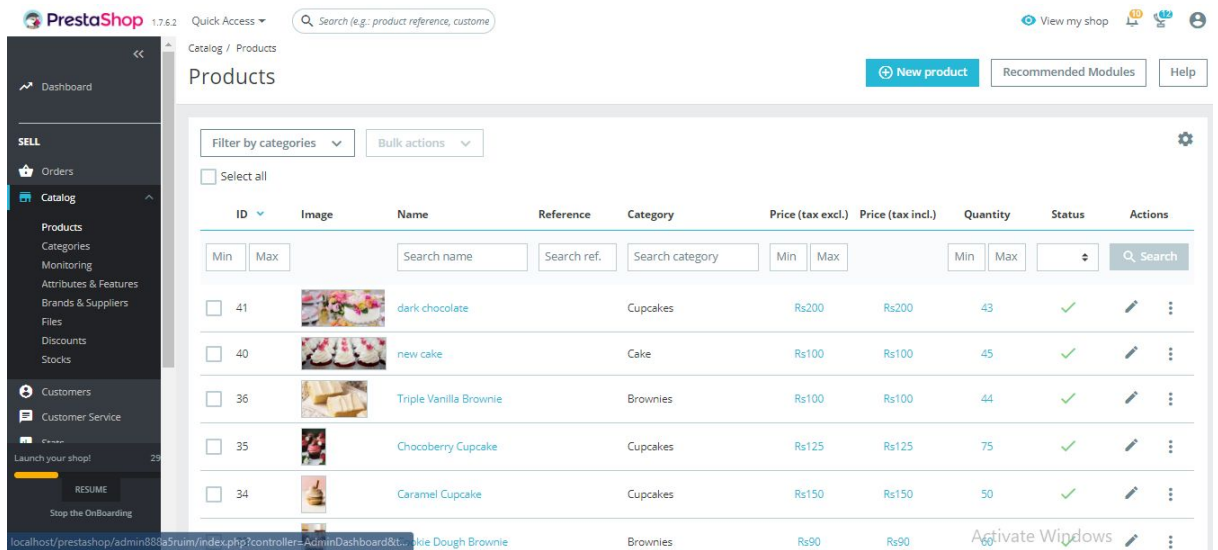
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The screenshot shows the PrestaShop 1.7.6.2 Dashboard. The left sidebar contains navigation links for 'SELL' (Orders, Catalog, Customers, Customer Service, Stats) and 'IMPROVE' (Modules, Design, Shipping). The main content area includes a 'Dashboard' section with a date range selector (Day, Month, Year, Day-1, Month-1, Year-1) and a 'DASHBOARD' summary table. The summary table shows Sales (Rs0 Tax excl.), Orders (0), Cart Value (Rs0 Tax excl.), Visits (2), Conversion Rate (0%), and Net Profit (Rs0 Tax excl.). Below the summary table is a line chart for Sales. The right sidebar features 'PRESTASHOP NEWS' with articles about expanding e-commerce business and online store expectations.

Sales	Orders	Cart Value	Visits	Conversion Rate	Net Profit
Rs0 Tax excl.	0	Rs0 Tax excl.	2	0%	Rs0 Tax excl.

b) Click on catalog and then click on products

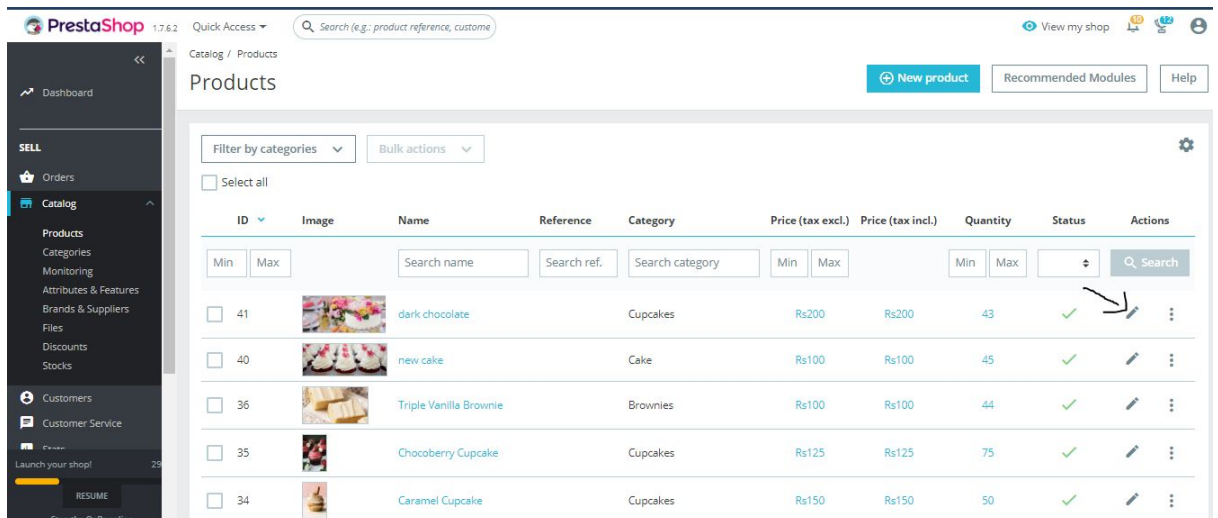


The screenshot shows the PrestaShop 1.7.6.2 Products page. The left sidebar contains navigation links for 'SELL' (Orders, Catalog, Customers, Customer Service, Stats) and 'IMPROVE' (Modules, Design, Shipping). The main content area includes a 'Products' section with a 'Filter by categories' dropdown and a 'Bulk actions' dropdown. Below the filters is a table listing products with columns for ID, Image, Name, Reference, Category, Price (tax excl.), Price (tax incl.), Quantity, Status, and Actions. The table contains 6 rows of product data.

ID	Image	Name	Reference	Category	Price (tax excl.)	Price (tax incl.)	Quantity	Status	Actions
41		dark chocolate		Cupcakes	Rs200	Rs200	43	✓	
40		new cake		Cake	Rs100	Rs100	45	✓	
36		Triple Vanilla Brownie		Brownies	Rs100	Rs100	44	✓	
35		Chocoberry Cupcake		Cupcakes	Rs125	Rs125	75	✓	
34		Caramel Cupcake		Cupcakes	Rs150	Rs150	50	✓	
		chocolate Dough Brownie		Brownies	Rs90	Rs90			

c)

I am going to change the price and stock of dark chocolate



The screenshot shows the PrestaShop 1.7.6.2 Products page, identical to the previous one. The 'dark chocolate' product row is highlighted, and the edit icon (pencil) in the 'Actions' column is pointed to by a black arrow, indicating the next step in the process.

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By clicking on the edit mark

The screenshot shows the PrestaShop 1.7.6.2 interface for editing a product named 'dark chocolate'. The left sidebar contains a 'SELL' menu with options like Dashboard, Orders, Catalog, Products, Categories, Monitoring, Attributes & Features, Brands & Suppliers, Files, Discounts, Stocks, Customers, and Customer Service. The main content area has tabs for 'Basic settings', 'Quantities', 'Shipping', 'Pricing', 'SEO', and 'Options'. The 'Basic settings' tab is active, showing a product image placeholder, a 'Cover' image, and a 'Summary' section with a rich text editor. On the right, there are sections for 'Combinations' (Simple product selected), 'Reference', and 'Quantity' (set to 43). At the bottom, there are buttons for 'Preview', 'Online', 'Save', 'Duplicate', 'Go to catalog', and 'Add new product'.

After the following window appears, move to *Quantities*

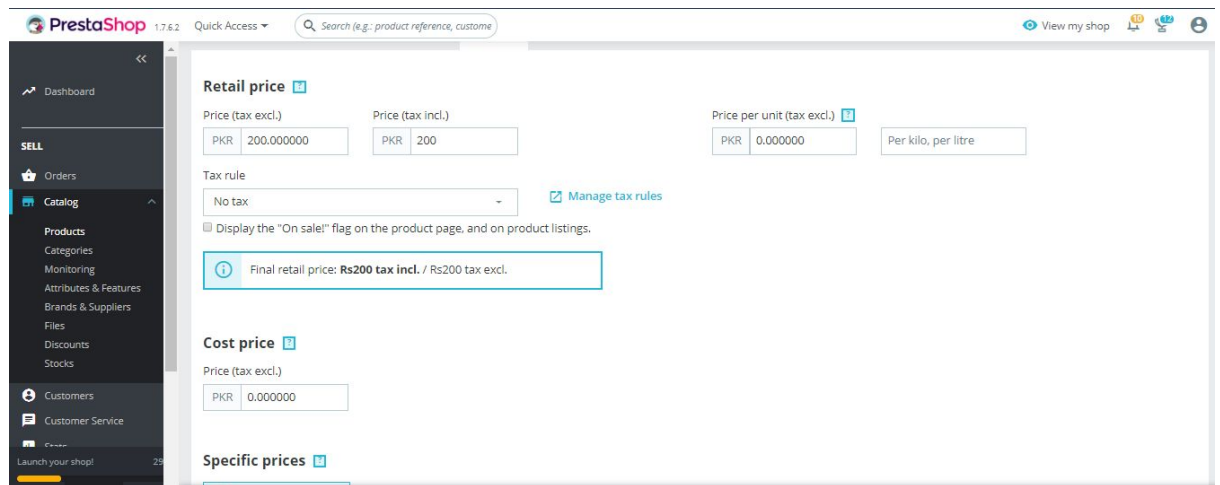
The screenshot shows the 'Quantities' tab selected in the PrestaShop interface. The 'Quantity' field is set to 43, and the 'Minimum quantity for sale' is set to 1. The 'Stock' section includes a 'Stock location' field, a 'Low stock level' field set to 'Leave empty to disable', and a checkbox for 'Send me an email when the quantity is below or equals this level'. The 'Availability preferences' section is also visible at the bottom.

d)

Change the quantity by entering a number. I am going to enter and 50 and then move onto prices

The screenshot shows the 'Quantities' tab in the PrestaShop interface, similar to the previous one, but the 'Quantity' field now contains the number 50. All other settings, including the 'Minimum quantity for sale' (1), 'Stock location', 'Low stock level' (Leave empty to disable), and 'Send me an email' checkbox, remain unchanged.

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The screenshot shows the PrestaShop Admin Dashboard with the 'Product Pricing' settings for a product. The 'Retail price' section has 'Price (tax excl.)' set to PKR 200.000000 and 'Price (tax incl.)' set to PKR 200. The 'Price per unit (tax excl.)' is set to PKR 0.000000. The 'Tax rule' is set to 'No tax'. A checkbox for 'Display the "On sale!" flag' is checked. The 'Final retail price' is displayed as 'Rs200 tax incl. / Rs200 tax excl.'. The 'Cost price' section has 'Price (tax excl.)' set to PKR 0.000000. The 'Specific prices' section is empty.

Retail price

Price (tax excl.) PKR 200.000000 Price (tax incl.) PKR 200 Price per unit (tax excl.) PKR 0.000000 Per kilo, per litre

Tax rule No tax [Manage tax rules](#)

☒ Display the "On sale!" flag on the product page, and on product listings.

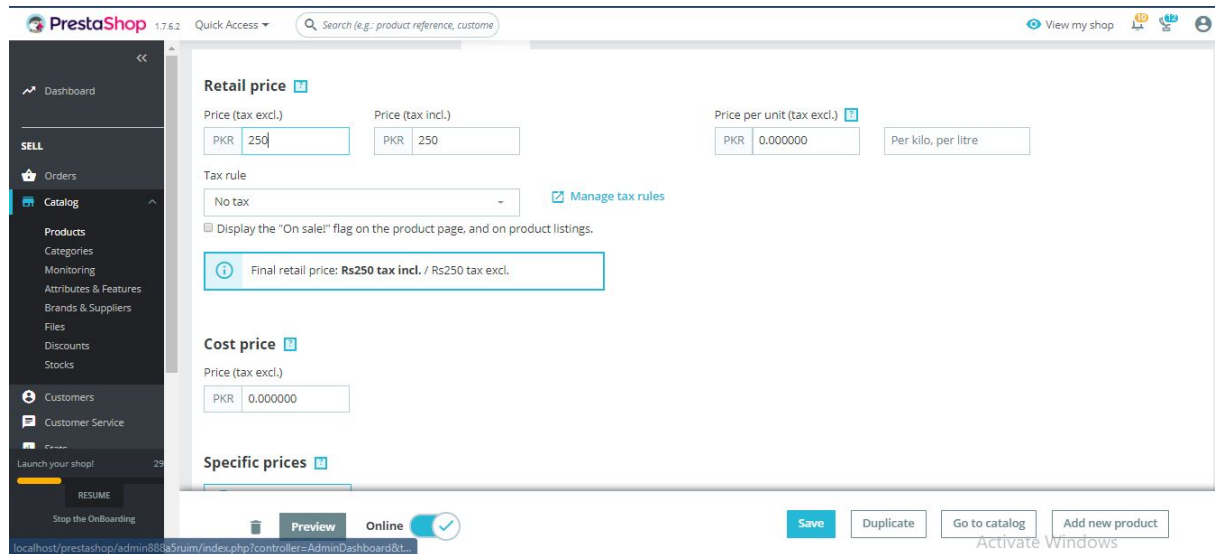
Final retail price: **Rs200 tax incl. / Rs200 tax excl.**

Cost price

Price (tax excl.) PKR 0.000000

Specific prices

And change the price to 250



The screenshot shows the PrestaShop Admin Dashboard with the 'Product Pricing' settings for a product. The 'Retail price' section has 'Price (tax excl.)' set to PKR 250 and 'Price (tax incl.)' set to PKR 250. The 'Price per unit (tax excl.)' is set to PKR 0.000000. The 'Tax rule' is set to 'No tax'. A checkbox for 'Display the "On sale!" flag' is checked. The 'Final retail price' is displayed as 'Rs250 tax incl. / Rs250 tax excl.'. The 'Cost price' section has 'Price (tax excl.)' set to PKR 0.000000. The 'Specific prices' section is empty. At the bottom, there are buttons for 'Save', 'Duplicate', 'Go to catalog', and 'Add new product'. The 'Online' status is checked.

Retail price

Price (tax excl.) PKR 250 Price (tax incl.) PKR 250 Price per unit (tax excl.) PKR 0.000000 Per kilo, per litre

Tax rule No tax [Manage tax rules](#)

☒ Display the "On sale!" flag on the product page, and on product listings.

Final retail price: **Rs250 tax incl. / Rs250 tax excl.**

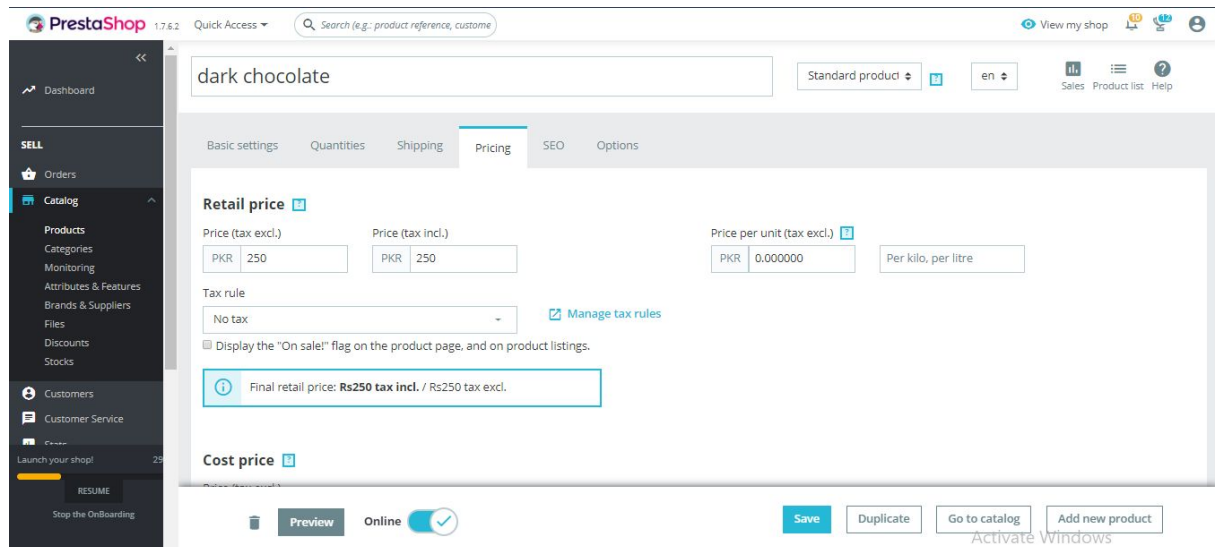
Cost price

Price (tax excl.) PKR 0.000000

Specific prices

[Save](#) [Duplicate](#) [Go to catalog](#) [Add new product](#)

☒ Online



The screenshot shows the PrestaShop Admin Dashboard with the 'Product Pricing' settings for a product named 'dark chocolate'. The 'Retail price' section has 'Price (tax excl.)' set to PKR 250 and 'Price (tax incl.)' set to PKR 250. The 'Price per unit (tax excl.)' is set to PKR 0.000000. The 'Tax rule' is set to 'No tax'. A checkbox for 'Display the "On sale!" flag' is checked. The 'Final retail price' is displayed as 'Rs250 tax incl. / Rs250 tax excl.'. The 'Cost price' section has 'Price (tax excl.)' set to PKR 0.000000. The 'Specific prices' section is empty. At the bottom, there are buttons for 'Save', 'Duplicate', 'Go to catalog', and 'Add new product'. The 'Online' status is checked.

Retail price

Price (tax excl.) PKR 250 Price (tax incl.) PKR 250 Price per unit (tax excl.) PKR 0.000000 Per kilo, per litre

Tax rule No tax [Manage tax rules](#)

☒ Display the "On sale!" flag on the product page, and on product listings.

Final retail price: **Rs250 tax incl. / Rs250 tax excl.**

Cost price

Price (tax excl.) PKR 0.000000

Specific prices

[Save](#) [Duplicate](#) [Go to catalog](#) [Add new product](#)

☒ Online

e)

Click save and make sure the page is online

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f)

PrestaShop 1.7.6.2 Quick Access Search (e.g.: product reference, custom)

View my shop

Catalog / Products

Products

Filter by categories Bulk actions

Select all

ID	Image	Name	Reference	Category	Price (tax excl.)	Price (tax incl.)	Quantity	Status	Actions
41		dark chocolate		Cupcakes	Rs250	Rs250	50	✓	
40		new cake		Cake	Rs100	Rs100	45	✓	
36		Triple Vanilla Brownie		Brownies	Rs100	Rs100	44	✓	
35		Chocoberry Cupcake		Cupcakes	Rs125	Rs125	75	✓	
34		Caramel Cupcake		Cupcakes	Rs150	Rs150	50	✓	
33		Cookie Dough Brownie		Brownies	Rs90	Rs90			

Activate Windows

Changes updated!!.

3) HOW TO ADD A NEW ITEM INTO THE MENU

1)

PrestaShop 1.7.6.2 Quick Access Search (e.g.: product reference, custom)

View my shop

Catalog / Products

Products

Filter by categories Bulk actions

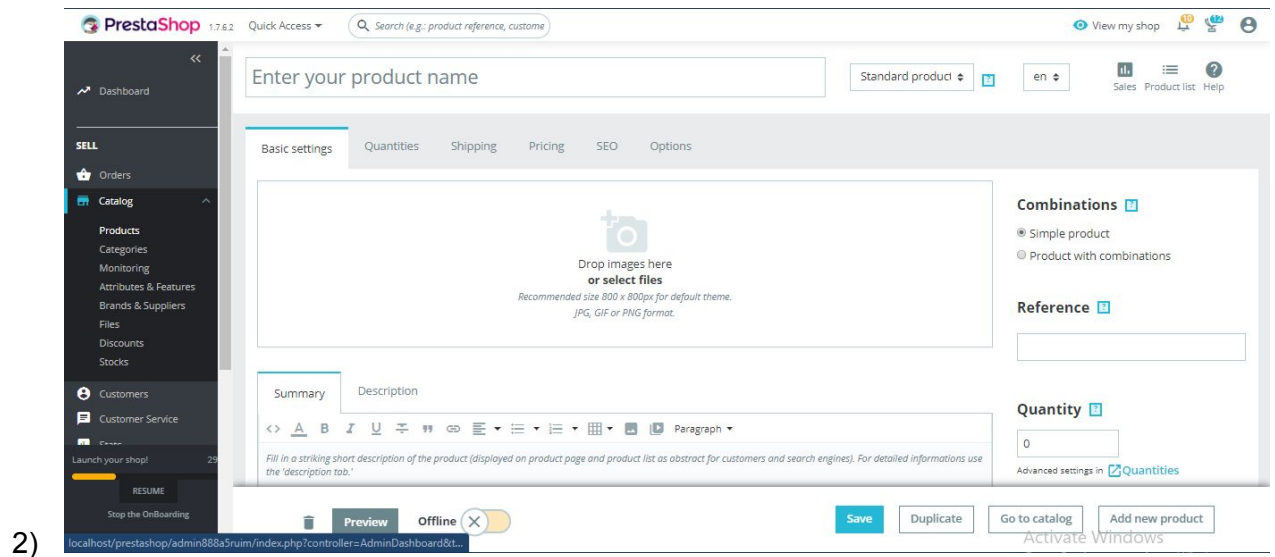
Select all

ID	Image	Name	Reference	Category	Price (tax excl.)	Price (tax incl.)	Quantity	Status	Actions
41		dark chocolate		Cupcakes	Rs250	Rs250	50	✓	
40		new cake		Cake	Rs100	Rs100	45	✓	
36		Triple Vanilla Brownie		Brownies	Rs100	Rs100	44	✓	
35		Chocoberry Cupcake		Cupcakes	Rs125	Rs125	75	✓	
34		Caramel Cupcake		Cupcakes	Rs150	Rs150	50	✓	
33		Cookie Dough Brownie		Brownies	Rs90	Rs90			

Activate Windows

Click on new product

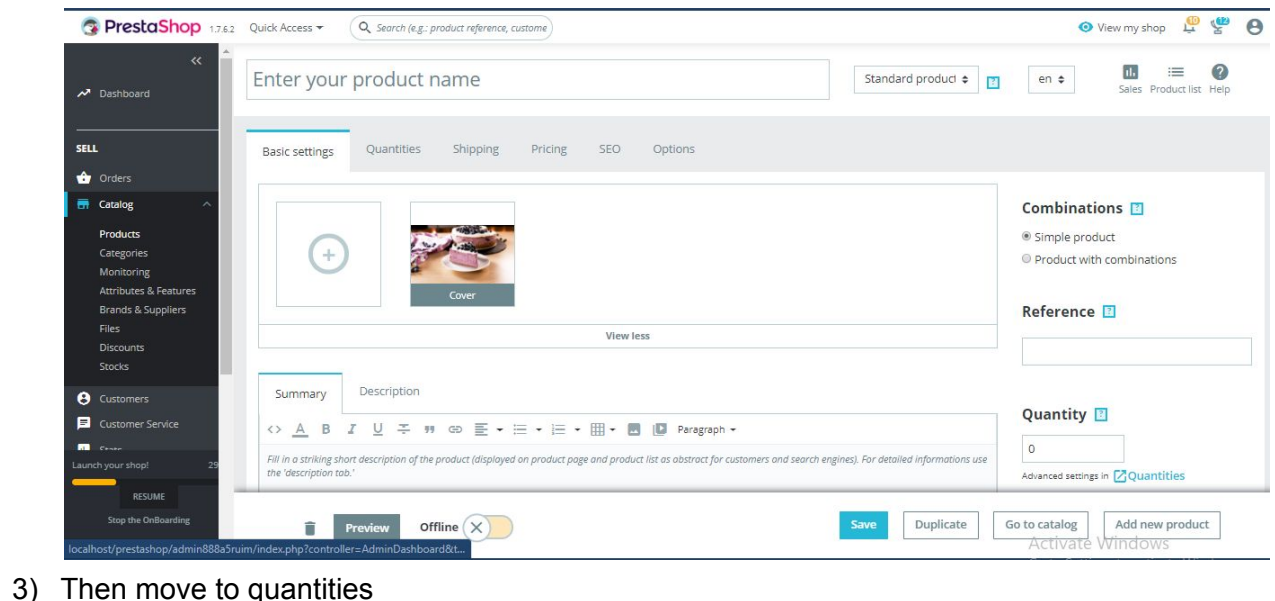
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Upload an image of the product

Since i don't have one, i am just going to upload any random picture from google

I am going to upload a picture of blueberry cheese cake



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The screenshot shows the PrestaShop 1.7.6.2 interface. The left sidebar contains a 'SELL' menu with options like Orders, Catalog, Products, Categories, Monitoring, Attributes & Features, Brands & Suppliers, Files, Discounts, Stocks, Customers, and Customer Service. The main content area is titled 'Quantities' and 'Stock'. Under 'Quantities', there is a 'Quantity' input field and a 'Minimum quantity for sale' input field set to 1. Under 'Stock', there is a 'Stock location' input field, a 'Low stock level' input field, and a checkbox for 'Send me an email when the quantity is below or equals this level'. Below these, there are 'Availability preferences' including 'Behavior when out of stock' (radio buttons for Deny orders, Allow orders, and Use default behavior (Deny orders)), and 'Label when out of stock (and back order allowed)' and 'Availability date' input fields.

Enter the quantity number (e.g 50)

This screenshot shows the 'Quantities' tab selected in the PrestaShop interface. The 'Quantity' input field now contains the value '50'. The 'Minimum quantity for sale' remains at 1. The 'Stock' section is still visible. At the bottom, there are buttons for 'Preview', 'Online' (which is checked), 'Save', 'Duplicate', 'Go to catalog', and 'Add new product'. A warning message at the top says 'Enter your product name' and 'This value should not be blank.'

Make sure the online bar is on when you are doing your work

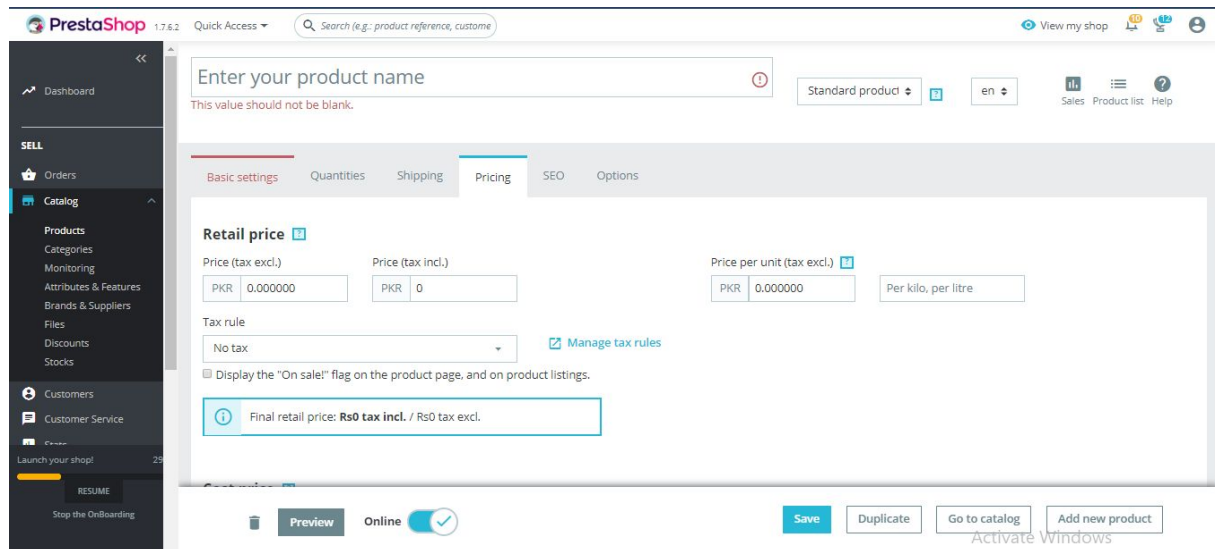
4) Now move to shipping

The screenshot shows the 'Shipping' tab selected in the PrestaShop interface. The 'Package dimension' section includes input fields for 'Width', 'Height', 'Depth', and 'Weight', all set to 0. Below this, the 'Delivery Time' section has radio buttons for 'None', 'Default delivery time' (selected), and 'Specific delivery time to this product'. At the bottom, there are buttons for 'Preview', 'Online' (checked), 'Save', 'Duplicate', 'Go to catalog', and 'Add new product'. A warning message at the top says 'Enter your product name' and 'This value should not be blank.'

Enter any details if necessary

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5) Now move to pricing



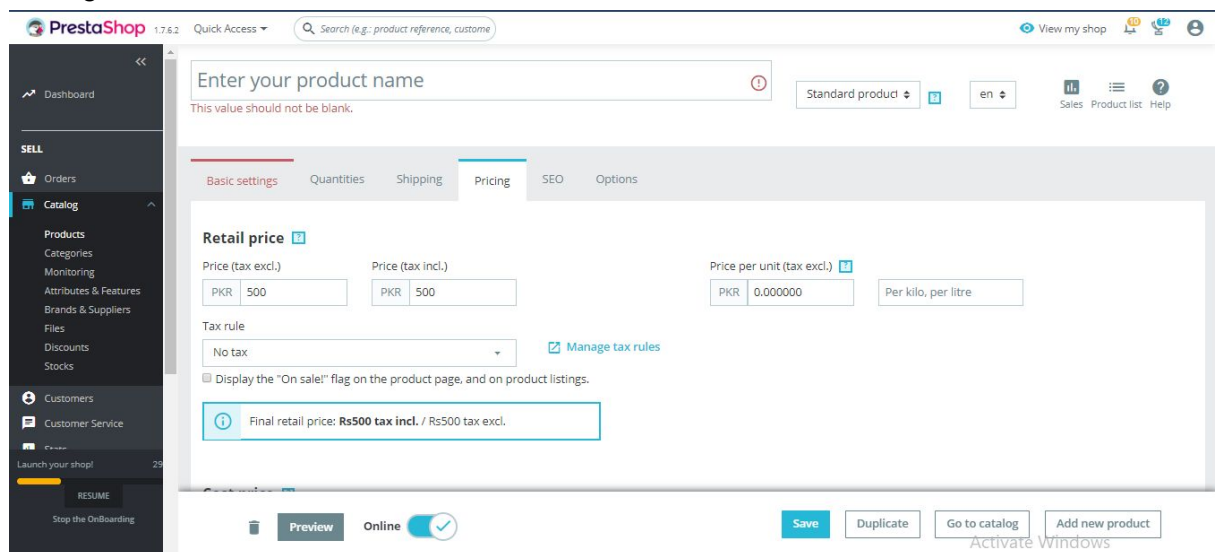
The screenshot shows the PrestaShop 1.7.6.2 interface with the 'Pricing' tab selected. The 'Retail price' section contains the following fields:

- Price (tax excl.): PKR 0.000000
- Price (tax incl.): PKR 0
- Price per unit (tax excl.): PKR 0.000000
- Unit: Per kilo, per litre
- Tax rule: No tax
- Display the "On sale!" flag: ☐
- Final retail price: Rs0 tax incl. / Rs0 tax excl.

At the bottom, there are buttons for 'Preview', 'Online' (checked), 'Save', 'Duplicate', 'Go to catalog', and 'Add new product'.

Enter price details

For e.g



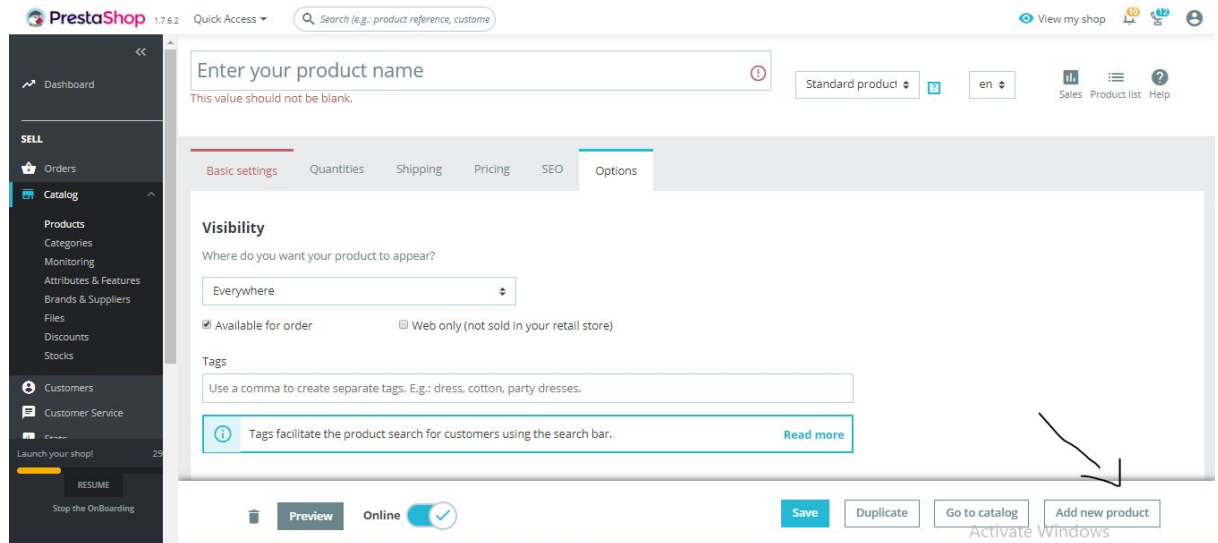
The screenshot shows the PrestaShop 1.7.6.2 interface with the 'Pricing' tab selected. The 'Retail price' section contains the following fields:

- Price (tax excl.): PKR 500
- Price (tax incl.): PKR 500
- Price per unit (tax excl.): PKR 0.000000
- Unit: Per kilo, per litre
- Tax rule: No tax
- Display the "On sale!" flag: ☐
- Final retail price: Rs500 tax incl. / Rs500 tax excl.

At the bottom, there are buttons for 'Preview', 'Online' (checked), 'Save', 'Duplicate', 'Go to catalog', and 'Add new product'.

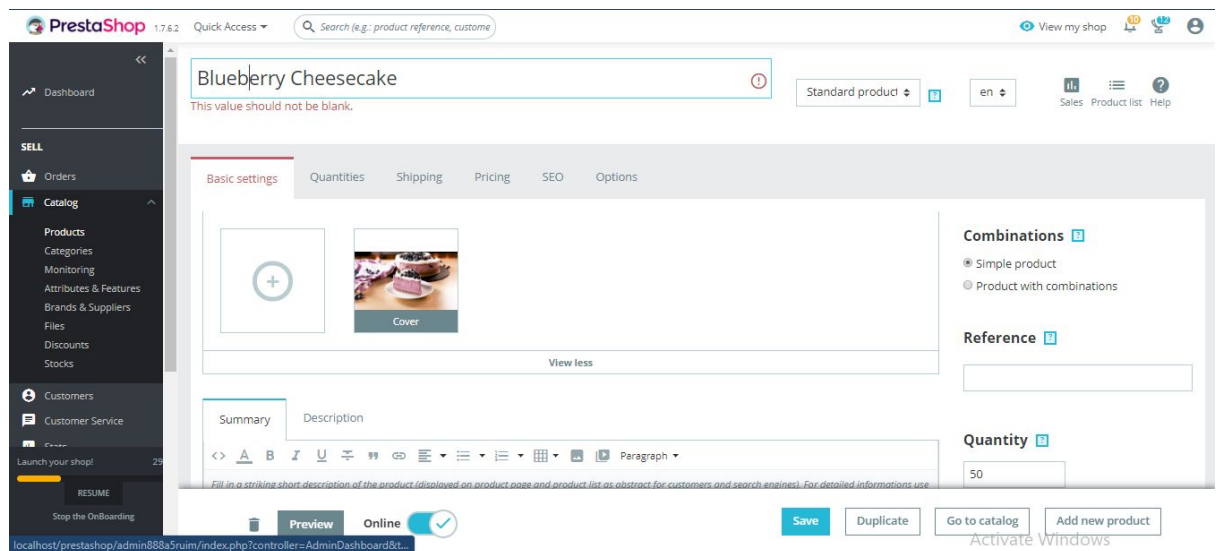
6) Now move to options

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And click on *Add new Product*

Oops I forgot to enter the product name in the beginning



Click on add new product and then wait for changes to update
Then click on products under catalog and

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The screenshot displays the PrestaShop 1.7.6.2 Admin Dashboard. The left sidebar contains navigation links for Dashboard, Orders, Catalog, Products, Categories, Monitoring, Attributes & Features, Brands & Suppliers, Files, Discounts, Stocks, Customers, and Customer Service. The main content area is titled 'Products' and shows a list of products. The table includes columns for ID, Image, Name, Reference, Category, Price (tax excl.), Price (tax incl.), Quantity, Status, and Actions. The products listed are:

ID	Image	Name	Reference	Category	Price (tax excl.)	Price (tax incl.)	Quantity	Status	Actions
42		Blueberry Cheesecake		Home	Rs500	Rs500	50	✓	
41		dark chocolate		Cupcakes	Rs250	Rs250	50	✓	
40		new cake		Cake	Rs100	Rs100	45	✓	
36		Triple Vanilla Brownie		Brownies	Rs100	Rs100	44	✓	
35		Chocoberry Cupcake		Cupcakes	Rs125	Rs125	75	✓	
34		Lemon Cupcake		Cupcakes	Rs150	Rs150	50	✓	

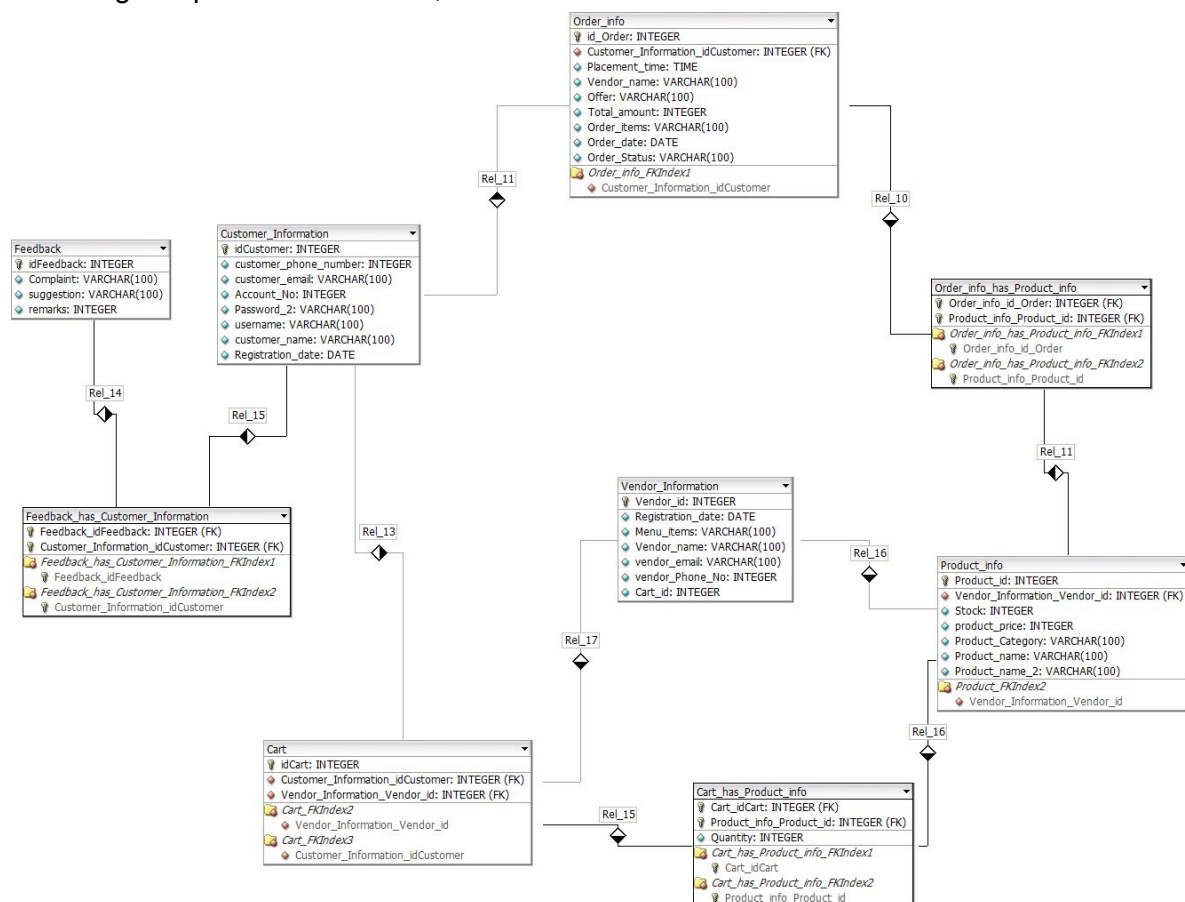
Blueberry cheesecake successfully added.

Functionalities of backend/ MYSQL administration tool are listed after the description of the ERD.

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ERD;

Following is a picture of our ERD;



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The entities in this ERD are **Vendor Information, Customer Information, Product_Info, Cart, Order_Info, Feedback**

Following is the description of the entities and the relationships between them:

-Vendor Information

This table will contain the list of Vendors registered with the Company. Each Vendor has certain attributes such as Vendor name, phone no#, Registration date etc. Each Vendor is assigned a Vendor ID by the Company

- Customer Information

Customer info will contain the details of the users that have signed up on the website whether or not they use the application or not. This table contains the users account details (account# , password, username) and other details such as phone number, email address and of course the name of the Customer. Each Customer is assigned a Customer ID by the company at the time when the Customer creates an account

-Product Information

Product Information will display the Menu of the Different Vendors. Each Product is assigned a Product ID by the Company

-Cart

Each Customer will have its own Cart (and hence a separate ID assigned by the Company) which will hold information about the order.

-Order Information

This table will contain the information about the details of a particular order placed by a customer, including its placement time. Each order will have a distinct ID assigned by the Company.

-Feedback

Customers will be reviewed about their experiences regarding their usage and satisfaction. This table will contain all that data

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Relationships:

These Relationships are with respect to what is the source of the relationship

-Vendor Information

- 1:n relationship with Product_info table since the vendor would have the information of the product he is giving to the company. Therefore, the vendor will have information for many products at any given time and many products could have the same vendor.
- 1:n relationship with Cart since 1 vendor information could be in many different carts.

-Customer Information

- 1:n relationship with Order_info table since a Customer could have many orders.
- M:n relationship with Feedback table since the customer may have many feedbacks and same feedback may also be given by many customers.
- 1:n relationship with Cart since 1 customer could have many carts in a day if he orders multiple times and many carts could be of the same customer as well.

-Product Information

- M:n relationship with Order_info table, 1 product could have many orders and similarly 1 orders could be of many different products.
- M:n relationship with Cart since many products could be in a single cart and many carts could have one product as well.

- Order Information

- M:n relationship with Product_info since one order could have many products and many products could be in one order.

-Feedback

- M:n relationship with Customer information since 1 customer could have many feedbacks and 1 feedback could be given by many customers as well.

-Cart.

- M:n relationship with Product_info since 1 cart could have many products in it and many carts could contain the same product.

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Environment For Database:

The environment used for Database is Prestashop, which is an open source E-commerce solution, which can be used to run stores in the cloud or via self-hosting. It is currently used by 250,000 shops and is available in 65 languages. Prestashop is fairly easy to use and provides a powerfully responsive store interface for shoppers, offers a comprehensive set of features for free.

Setup for Prestashop:

- What you need to get started:

Here is a list of things which are required before you proceed to download Prestashop.

- System requirements:
 - PHP 5.4 or later.
 - Useful settings (in the `php.ini` file):
 - `allow_url_fopen` set to On,
 - `register_globals` set to Off,
 - `upload_max_filesize` set to "16M" (or more).
 - Must-have PHP extensions (in the `php.ini` file):
PDO_MySQL, cURL, SimpleXML, mcrypt, GD, OpenSSL, DOM, SOAP, Zip, fileinfo.
 - Useful server tools: cron/crontab, Memcached.
 - MySQL 5.0 or later.
 - Better if:
 - Unix/Linux hosting.
 - Apache Web Server 2.0 or later or nginx Web Server.
 - Apache module settings:
 - `mod_rewrite` enabled,
 - `mod_security` disabled,
 - `mod_auth_basic` disabled.
 - At least 128 Mb of RAM dedicated to PHP. The more the better.
- Access codes to your FTP server, your MySQL database
 - These should be provided by your web host if you are not doing a local installation.
- Any text editor.
- Any FTP client.
- Any modern Web browser (if using Internet Explorer: at least IE9).

(taken from <http://doc.prestashop.com/display/PS17/What+you+need+to+get+started>)

- Prestashop Setup:

- Download zip file for Prestashop version 1.7.6.2, which is available on its website, i.e. <https://www.prestashop.com/en/download>.

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- Use Xampp, which is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in PHP and Perl programming languages. After installing Xampp, we will start Apache and MySQL module. Now, our local host is available for use.
- Now, when you type <http://localhost/phpmyadmin> on your web browser, it will open your local host database. Create a new database with name, “prestashop” from the Database tab.
- Now, when you type <http://localhost/prestashop> on your web browser, it will start the installation setup for Prestashop.
- Follow the steps and input details as required.
- During the steps, when it asks about the database_host, database_name, database_user and database_password, type the details of the database you created on phpmyadmin.
- As soon as you complete the steps, it will give you the generated links for both, prestashop customer hand and prestashop admin panel.
- You can edit the shop according to your product through the admin panel, such as logo, products, themes, carousel, pictures etc.
- You can also manage the orders, shipping, sales and overall performance of the store through the admin panel.

SQL SCRIPT of ERD:

```
CREATE TABLE Customer_Information (  
  idCustomer INTEGER NOT NULL AUTO_INCREMENT,  
  customer_phone_number INTEGER UNSIGNED NULL ,  
  customer_email VARCHAR(100) NULL ,  
  Account_No INTEGER UNSIGNED NULL ,  
  Password_2 VARCHAR(100) NULL ,  
  username VARCHAR(100) NULL ,  
  customer_name VARCHAR(100) NULL ,  
  Registration_date DATE NULL ,  
  PRIMARY KEY(idCustomer));
```

```
CREATE TABLE Feedback (  
  idFeedback INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,  
  Complaint VARCHAR(100) NULL ,  
  suggestion VARCHAR(100) NULL ,  
  remarks INTEGER UNSIGNED NULL ,  
  PRIMARY KEY(idFeedback));
```


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```
CREATE TABLE Vendor_Information (  
  Vendor_id INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,  
  Registration_date DATE NULL ,  
  Menu_items VARCHAR(100) NULL ,  
  Vendor_name VARCHAR(100) NULL ,  
  vendor_email VARCHAR(100) NULL ,  
  vendor_Phone_No INTEGER UNSIGNED NULL ,  
  Cart_id INTEGER UNSIGNED NULL ,  
  PRIMARY KEY(Vendor_id));
```

```
CREATE TABLE Order_info (  
  id_Order INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,  
  Customer_Information_idCustomer INTEGER NOT NULL ,  
  Placement_time TIME NULL ,  
  Vendor_name VARCHAR(100) NULL ,  
  Offer VARCHAR(100) NULL ,  
  Total_amount INTEGER UNSIGNED NULL ,  
  Order_items VARCHAR(100) NULL ,  
  Order_date DATE NULL ,  
  Order_Status VARCHAR(100) NULL ,  
  PRIMARY KEY(id_Order) ,  
  INDEX Order_info_FKIndex1(Customer_Information_idCustomer),  
  FOREIGN KEY(Customer_Information_idCustomer)  
    REFERENCES Customer_Information(idCustomer)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION);
```

```
CREATE TABLE Product_info (  
  Product_id INTEGER UNSIGNED NOT NULL ,  
  Vendor_Information_Vendor_id INTEGER UNSIGNED NOT NULL ,  
  Stock INTEGER UNSIGNED NULL ,  
  product_price INTEGER UNSIGNED NULL ,  
  Product_Category VARCHAR(100) NULL ,  
  Product_name VARCHAR(100) NULL ,  
  Product_name_2 VARCHAR(100) NULL ,  
  PRIMARY KEY(Product_id) ,  
  INDEX Product_FKIndex2(Vendor_Information_Vendor_id),  
  FOREIGN KEY(Vendor_Information_Vendor_id)  
    REFERENCES Vendor_Information(Vendor_id)
```

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ON DELETE NO ACTION
ON UPDATE NO ACTION);

```
CREATE TABLE Order_info_has_Product_info (  
    Order_info_id_Order INTEGER UNSIGNED NOT NULL ,  
    Product_info_Product_id INTEGER UNSIGNED NOT NULL ,  
    PRIMARY KEY(Order_info_id_Order, Product_info_Product_id) ,  
    INDEX Order_info_has_Product_info_FKIndex1(Order_info_id_Order) ,  
    INDEX Order_info_has_Product_info_FKIndex2(Product_info_Product_id),  
    FOREIGN KEY(Order_info_id_Order)  
        REFERENCES Order_info(id_Order)  
        ON DELETE NO ACTION  
        ON UPDATE NO ACTION,  
    FOREIGN KEY(Product_info_Product_id)  
        REFERENCES Product_info(Product_id)  
        ON DELETE NO ACTION  
        ON UPDATE NO ACTION);
```

```
CREATE TABLE Cart (  
    idCart INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,  
    Customer_Information_idCustomer INTEGER NOT NULL ,  
    Vendor_Information_Vendor_id INTEGER UNSIGNED NOT NULL ,  
    PRIMARY KEY(idCart) ,  
    INDEX Cart_FKIndex2(Vendor_Information_Vendor_id) ,  
    INDEX Cart_FKIndex3(Customer_Information_idCustomer),  
    FOREIGN KEY(Vendor_Information_Vendor_id)  
        REFERENCES Vendor_Information(Vendor_id)  
        ON DELETE NO ACTION  
        ON UPDATE NO ACTION,  
    FOREIGN KEY(Customer_Information_idCustomer)  
        REFERENCES Customer_Information(idCustomer)  
        ON DELETE NO ACTION  
        ON UPDATE NO ACTION);
```

```
CREATE TABLE Cart_has_Product_info (  
    Cart_idCart INTEGER UNSIGNED NOT NULL ,  
    Product_info_Product_id INTEGER UNSIGNED NOT NULL ,  
    Quantity INTEGER UNSIGNED NULL ,  
    PRIMARY KEY(Cart_idCart, Product_info_Product_id) ,
```

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```
INDEX Cart_has_Product_info_FKIndex1(Cart_idCart) ,
INDEX Cart_has_Product_info_FKIndex2(Product_info_Product_id),
FOREIGN KEY(Cart_idCart)
REFERENCES Cart(idCart)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
FOREIGN KEY(Product_info_Product_id)
REFERENCES Product_info(Product_id)
ON DELETE NO ACTION
ON UPDATE NO ACTION);
```

```
CREATE TABLE Feedback_has_Customer_Information (
Feedback_idFeedback INTEGER UNSIGNED NOT NULL ,
Customer_Information_idCustomer INTEGER NOT NULL ,
PRIMARY KEY(Feedback_idFeedback, Customer_Information_idCustomer) ,
INDEX Feedback_has_Customer_Information_FKIndex1(Feedback_idFeedback) ,
INDEX
Feedback_has_Customer_Information_FKIndex2(Customer_Information_idCustomer),
FOREIGN KEY(Feedback_idFeedback)
REFERENCES Feedback(idFeedback)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
FOREIGN KEY(Customer_Information_idCustomer)
REFERENCES Customer_Information(idCustomer)
ON DELETE NO ACTION
ON UPDATE NO ACTION);
```

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