# Shop Management System

# 1. Problem Statement

The conventional shop/store management methods include hectic, tedious and time-consuming manual calculation/operation which is a heavy task for the Shop manager. Main features of Shop/Store Management are Inventory, Employee leave Records and Shopping History.

So, we have to design the Shop Management System which reduces the workload of Shop Manager and also helps him to manage the entire Shop more effectively and efficiently by shifting it to a digital and secured platform.

And it would be much better if we can include some user-friendly functionalities like Wish List which are popular on online shopping.

This software will enable the shop manager to manage the entire shop in an efficient and organized manner by providing functionalities such as- Inventory Management(Add/Remove/Update Items), check Shopping History, approve/reject Leave requests, Add new Employee, etc.

This software provides many features to employees and customers as well. Employees can sell items ,update profile and also apply for leave using this. It also reduces workload of customers in remembering which items to buy by the help of Wishlist feature and also helps in managing their monthly shopping history. The customer can check product availability and shopping history at home with the help of this software.

This software can be accessed by Employee, Customer, Admin(Shop Owner) and also it will store Customer/Employee profiles which can also be updated.

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# 2. Tasks Done

### Shop Manager/Admin:

- Create account
- Account Login
- Inventory
- Add Employee
- Add/Remove/Update Item.
- Approve/Reject Leave
- Shopping History
- Feedback

### Shop Employee:

- Update Profile
- Sell Items
- Account Login
- Apply for leave

#### **Customer:**

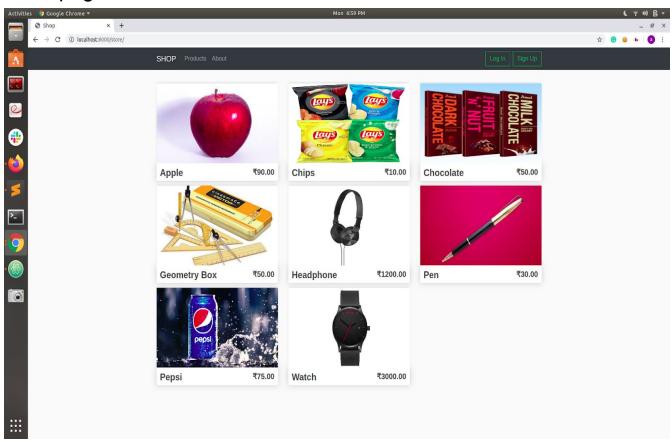
- Create Account
- Account Login
- Update Profile
- Product Detail/availability
- Check Shopping History
- Wish list

<sup>\*</sup>Employee cannot create account because Shop Owner(admin) can only add new Employees to its shop.

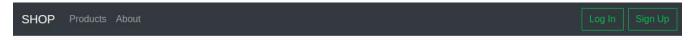
# 3. Descriptions

# I. FRONT-END

# Homepage



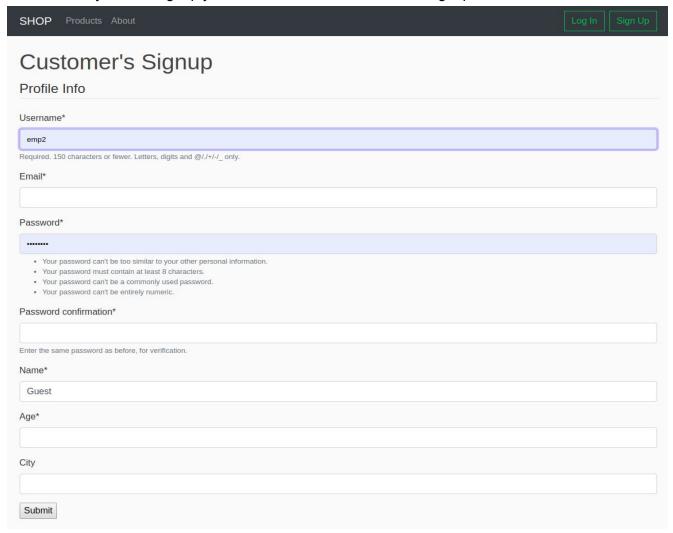
# **Default Navbar**



 Employee cannot sign up or create account because only admin can add employees to the shop.

# Customer's Signup

When you click signup you will be redirected to customer Signup



# Login Page

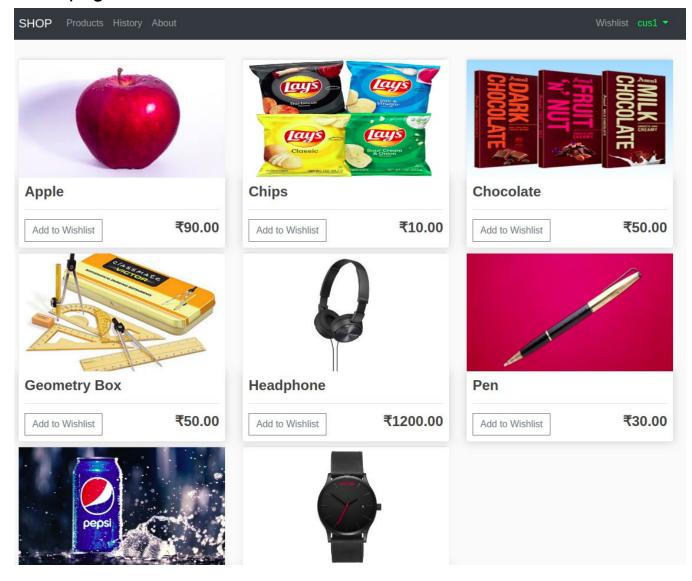
On clicking login button



#### Customer

(logged in as Customer)

#### Homepage



Customer can add items to their wishlist by clicking on Add to Wishlist button.

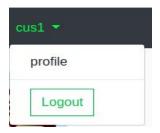
#### Navbar



Here History denotes customer shopping History

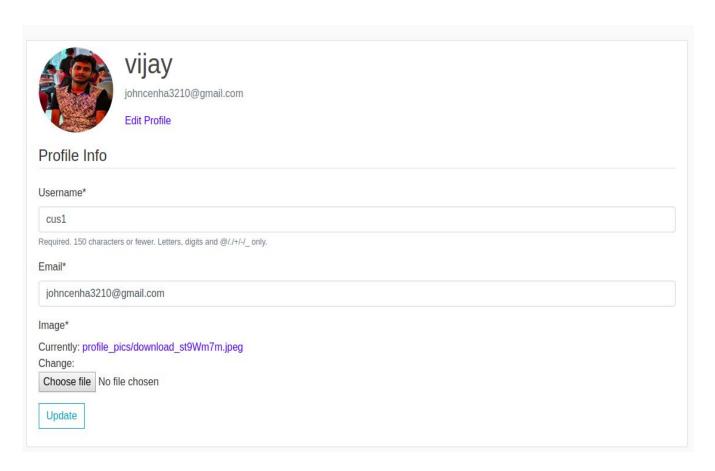
Products: Available product list with price Wishlist: Items which customer wants to buy

cus1 is the username of customer by clicking on this:-



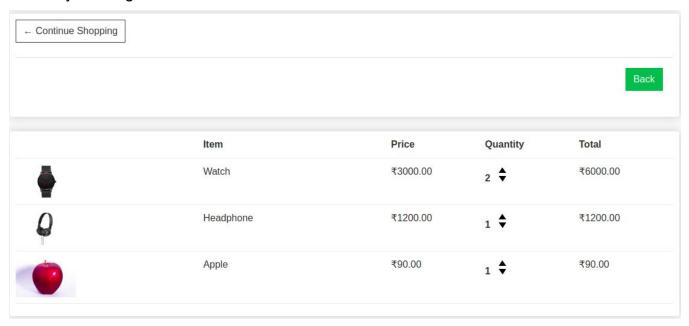
### Profile

here we can update our profile.



# Wishlist

By Clicking on Wishlist in Navbar.



# **Shopping History**

By clicking on History in Navbar



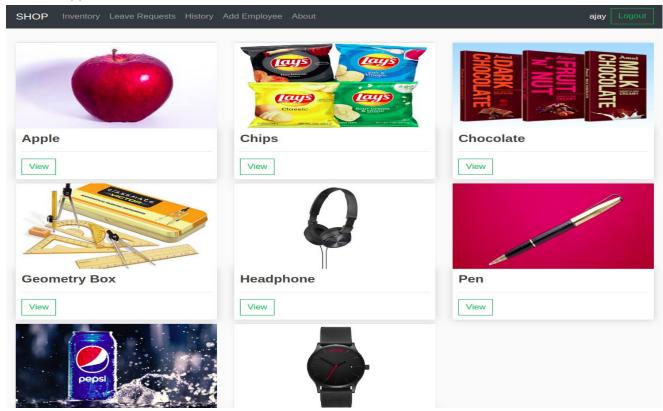
Customers can see order details by clicking on order id.



# **Shop Owner**(Admin)

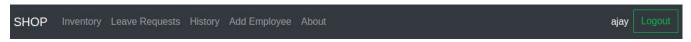
# Homepage

(logged in as admin)



Admin can see item details by clicking on view button

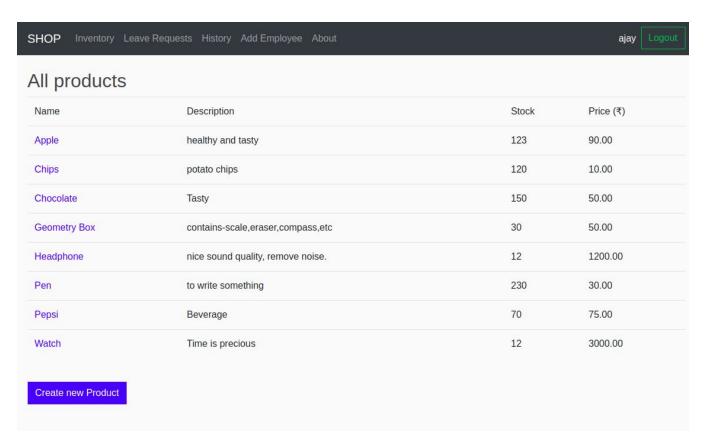
### Navbar



Inventory: item list will be shown with details Leave Request: Approve/Reject leave requests

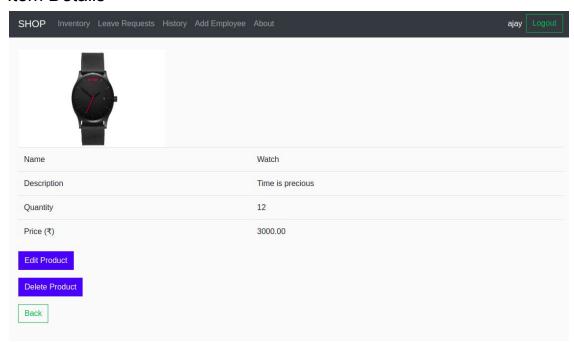
History: Purchase History can seen Add Employee: to recruit new employee

# Inventory

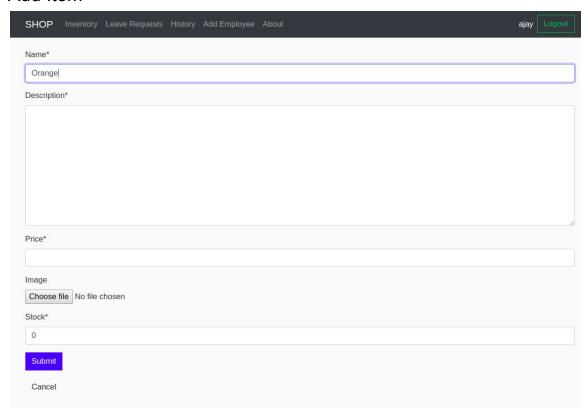


Admin can add new items by clicking on Create new Product button. and view item details by clicking on item name.

#### Item Details

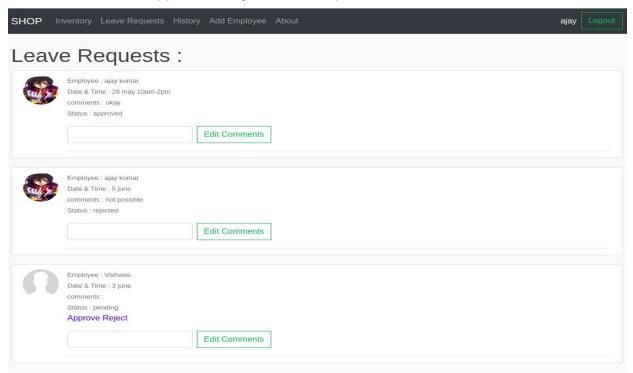


#### Add Item



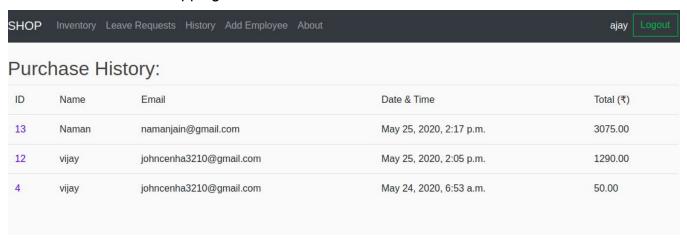
# Leave Requests

Here we can approve or reject leave request and also write comment.



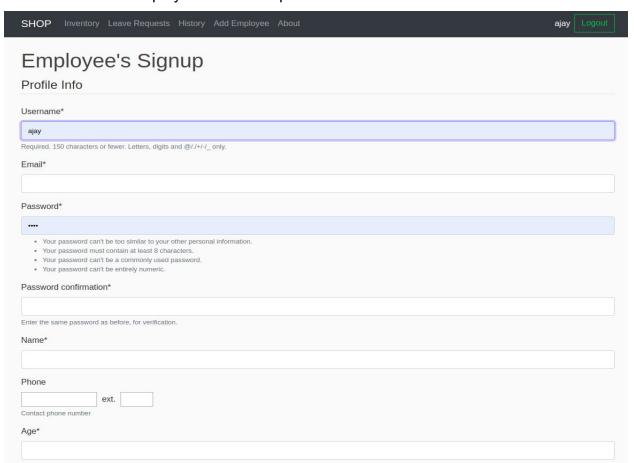
# **Purchase History**

we can check shopping records of all customers here.



# Add Employee

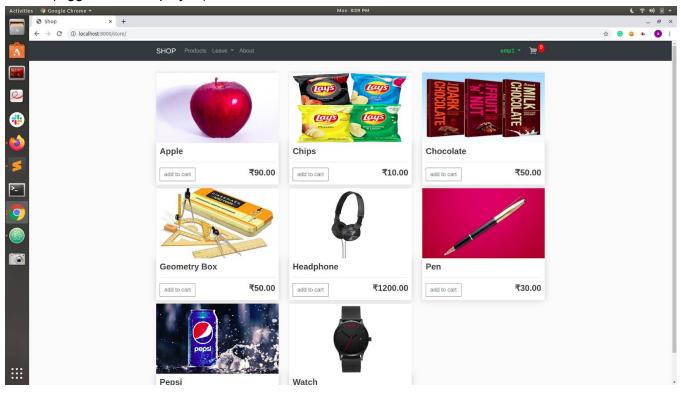
Add a new employee for the shop.



# **Employee**

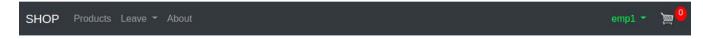
# Homepage

(logged in as employee)



Employee can add items to cart by clicking on add to cart button And anytime visit the cart by clicking on cart-icon(on top-right).

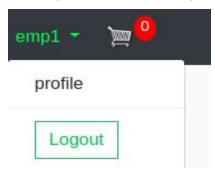
### Navbar



Products: to items list(same as homepage)
Leave: apply for leave or check leave status
Update profile by clicking on username then profile button
Cart-icon can be seen at rightmost of navbar.

### **Profile**

(same as customer)

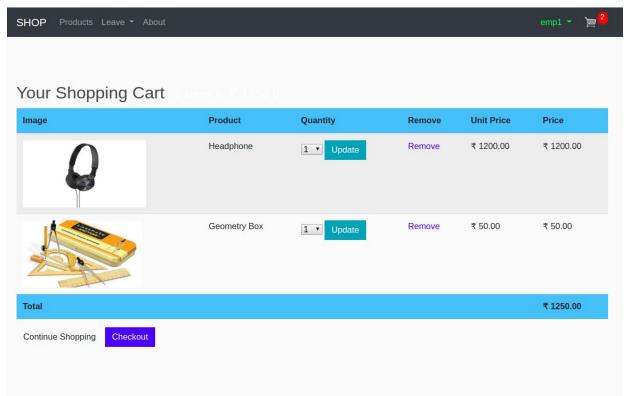


### Sell Items

After adding items to the cart that the customer wants to buy just click on cart-icon.

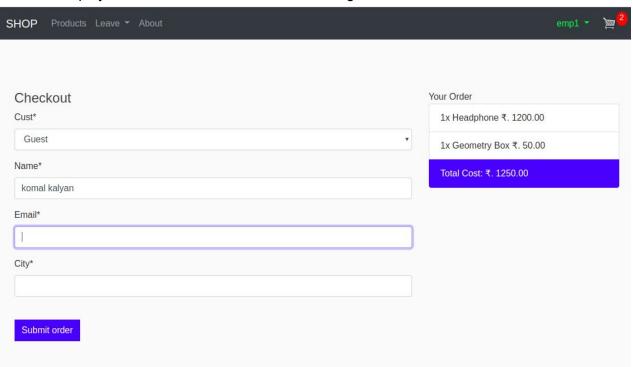
#### 1. Cart

Here we can add or remove items from cart and also check total price.

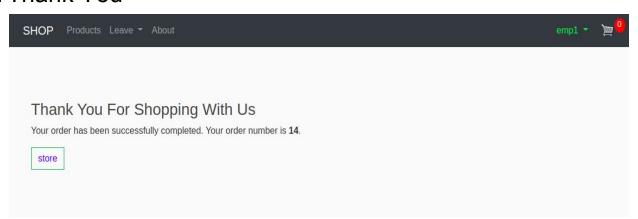


### 2. Checkout

Here the employee will fill customer details after asking him.



# 3. Thank You



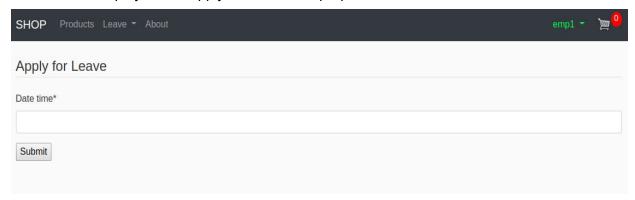
#### Leave

On clicking leave button in navbar two options will appear:-



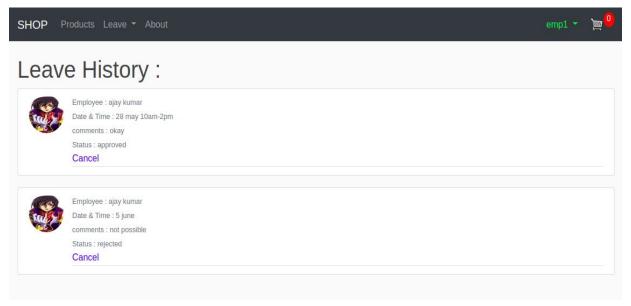
# **Apply**

Here Employee can apply for leave with proper date.



### View

Check previous leave history and leave status.



#### II. DATABASE

Database is implemented using sqlite, a prefeatured database given by django. All models for database are written in accounts/models.py, product\_manager/views.py, orders/models.py, leave/model.py & wishlists/models.py

#### III. BACKEND

Backend is implemented using Python3.6.9 & Django2.2 . All functions are written with proper convention in accounts/views.py, product\_manager/views.py, orders/views.py, leave/views.py & wishlists/views.py

In Django different modules are required to develop a system which are known as Apps. This system have 5 apps:-

1.accounts

2.product\_manager

3.leave

4.cart

5.orders

6.wishlists

Github link: https://github.com/ajaykumarr123/shop\_management

# 4. Guide to run project

(if some problem/error arises in first 3 steps then you can move directly to step4)

Step 1. Install python virtual environment : pip3 install virtualenv

Step 2. Go to the directory where project is saved and create a new virtual environment new\_v using the following command: virtualenv -p /usr/bin/python3.6 envv

Step 3. Activate the virtual environment(on linux): source envv/bin/activate

Step 4. Install django and its dependencies by these 2 commands: pip3 install Django==2.2 django-autofixture django-extensions django-phone-field pip3 install celery==4.4.2 django-crispy-forms image django-rest-framework

Step 5. Execute the following command to run the server:

Python3 manage.py runserver

```
ajay@ajay: ~/Desktop/shop_management

File Edit View Search Terminal Help
ajay@ajay: ~/Desktop/shop_management$ source envv/bin/activate
(envv) ajay@ajay: ~/Desktop/shop_management$ python3 manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
May 25, 2020 - 17:13:48
Django version 2.2, using settings 'shop_management.settings'
Starting development server at http://127.0.0.1:8000/
Ouit the server with CONTROL-C.
```

Now just visit http://localhost:8000/ in your browser.

# 5. Further Enhancements:-

- Email verification
- Sending mail to customer after shopping with order id and total price (mostly done)
- Sending mail to Employee after leave approval
- Plot item vs profit
- Managing Employee Salary Record