# Ecommerce -shofy



Session: 2021 - 2025

### Submitted by:

Naseeb Amjad

2021-CS-165

### Supervised by:

Muhammad Laeeq Uz Zaman Khan Niazi

Department of Computer Science

University of Engineering and Technology Lahore

Pakistan

## **Contents**

1	Introduction			
2	Obje	ctives	3	
3	Project Features			
	3.1	User Authentication	3	
	3.2	Product browsing	3	
	3.3	sorting	3	
	3.4	Add to cart	3	
	3.5	Wishlist management	4	
	3.6	Cart management	4	
	3.7	Order placement	4	
4	Proje	ect Diagrams	4	
5	Best	Practices	9	
6	Proje	ect Management Tool	10	
7	Proje	ect Management	10	
8	Code Snippets			
9	Screens Layout along with navigation flow			
10	Targe	et Audience	15	

#### Shofy

#### 1 Introduction

Welcome to ShopEase, your go-to e-commerce shopping app! With Shofy, enjoy effortless browsing through a variety of top-brand products. Our user-friendly interface ensures a smooth experience, while personalized recommendations cater to your unique preferences. Feel secure with protected transactions and track your orders in real-time. Benefit from exclusive deals, create wishlists, and access efficient customer support—all in one app. Shop with ease, style, and convenience.

### 2 Objectives

The primary objectives of Shofy include enhancing user engagement through personalized features, acquiring and retaining a loyal user base with effective marketing strategies, ensuring a seamless and secure shopping experience, and optimizing conversion rates through streamlined processes. The app aims to build trust through robust security measures while continuously seeking user feedback for ongoing improvements.

### 3 Project Features

### 3.1 User Authentication (Login/Signup):

Users start their journey by authenticating through a secure login or signup process, ensuring a personalized and secure experience.

### 3.2 Product Browsing and Viewing:

Explore a vast array of products with an intuitive product viewer, offering detailed information, images, and specifications for informed decision-making..

### 3.3 Sorting Options (High to Low):

Enhance the shopping experience by allowing users to sort products based on price, enabling them to prioritize items based on their budget and preferences..

#### 3.4 Add to Cart:

Seamlessly add desired products to the shopping cart, providing a centralized location for users to review and manage their selected items before proceeding to checkout.

### 3.5 Wishlist Management:

Enable users to create and manage wishlists, allowing them to save and track favorite products for future consideration or sharing with others.

#### 3.6 Cart Management:

Effortlessly manage items in the cart, giving users the flexibility to review, modify, or remove products before finalizing their purchase.

#### 3.7 Order Placement:

Facilitate a secure and straightforward order placement process, guiding users through the necessary steps to complete their transaction.

### 4 Project Diagram

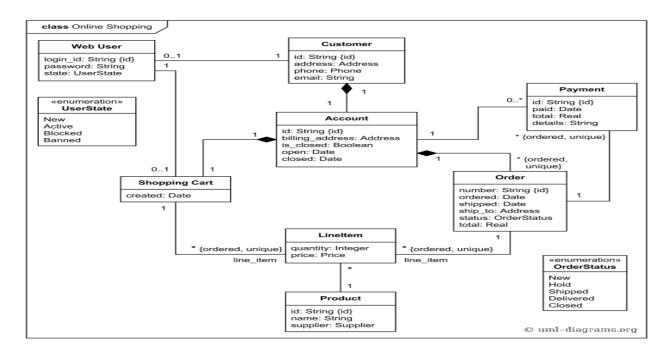


FIGURE 1: Class Diagram of the Project

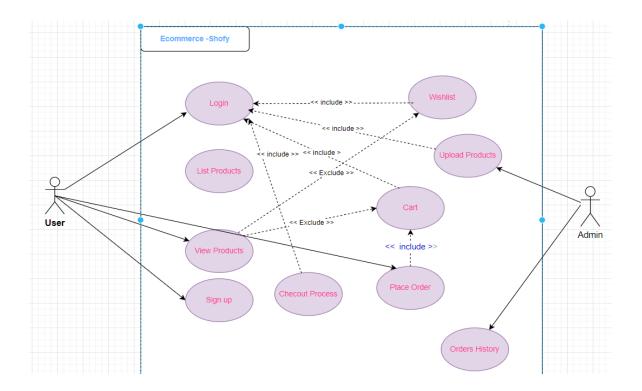


FIGURE 2: Use Case Diagram of the Project

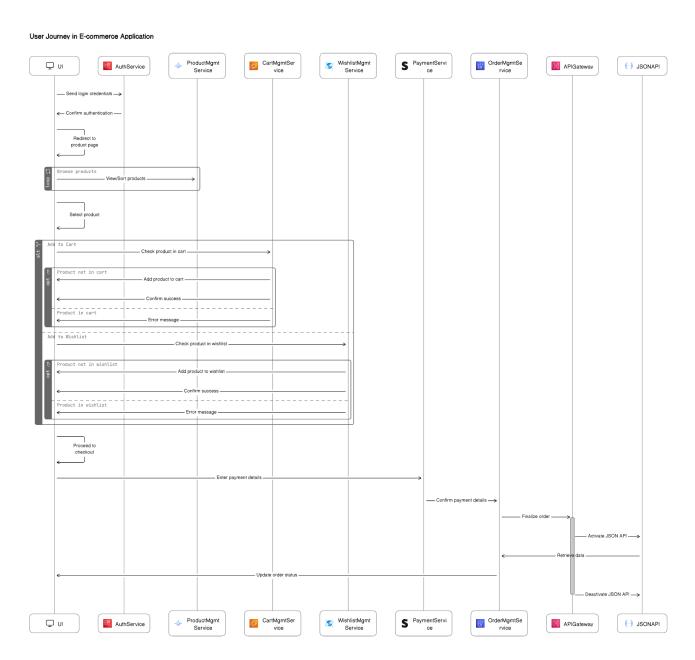


FIGURE 3: Sequence Diagram of the Project

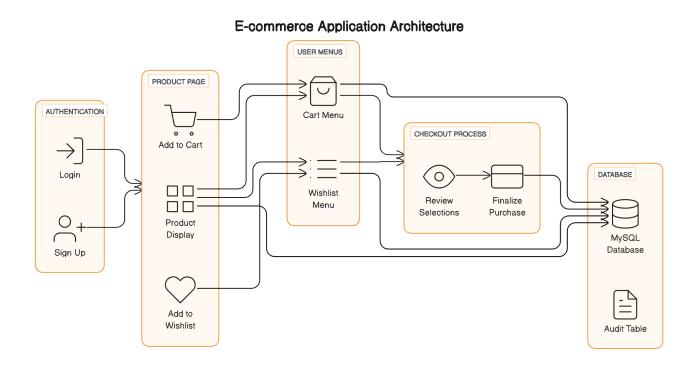


FIGURE 4: Architecture Diagram of the Project

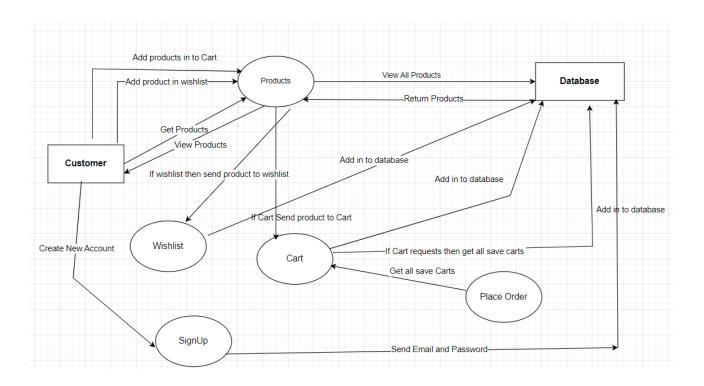


Figure 5 : Data flow diagram level 0

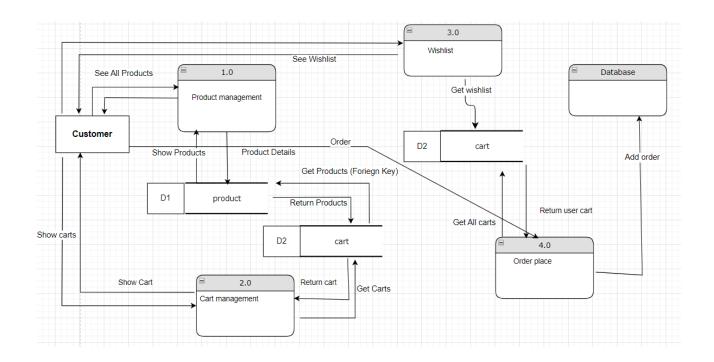


FIGURE 6 : Data flow diagram level 1

#### 5 Best Practices

```
@csnf.exempt
def add_to_wishlist(request):

if request.method == 'POST':

# get the product id from the request
product_id = request.POST.get('p_id')
user_id = request.user.id

# check if product_id is valid
if not product_id or not product_id.isdigit():
    return JsonResponse(('message': 'Invalid product ID'})

product = Product.objects.filter(id-product_id).first()

if not product:
    return JsonResponse(('message': 'Product not found'))

# check if product is already in the wishlist

if Wishlist.objects.filter(product_id-product, user_id-user_id).exists():
    return JsonResponse(('message': 'Product already added to the wishlist'))
else:
    # create new wishlist item

wishlist - Wishlist.objects.create(product_id-product, user_id-user_id)
wishlist.save()
action = 'INSERT'
# audit log
create_wishlist_audit_log(wishlist.id, action, request.user, product.id , "New_Record" , "None")
return JsonResponse(('message': 'Product added to the wishlist successfully'))

return JsonResponse(('message': 'Invalid request method'))
```

FIGURE 6: Comments as Best Practices

```
from django.urls import path , include
from .import views
from django.conf.urls.static import static
from django.conf import settings
from django.contrib.auth import views as auth_views
urlpatterns = []

path("", views.index, name="index"),
path("signup/", views.ingnup , name="signup"),
path("signup/", views.ingnup , name="index"),
path("lothing/", views.ingnup , name="index"),
path("lothing/", views.logins , name="lothing"),
path("lothing/", views.logins , name="lothing"),
path("lothing/", views.logins , name="lothing"),
path("lothing/", views.logins , name="lothing"),
path("shop/productDetails/<int:id>/', views.productDetails, name='productDetails'),

path("clothing/shop/", views.shop , name="shop"),
path("clothing/shop/", views.shop , name="add to_cart"),
path("add to_cart," views.add to_cart , name="add to_cart"),
path("add to_vishlist," views.add to_cart , name="add to_vishlist"),
path("clothing/checkout/", views.add to_vishlist , name="add to_vishlist"),
path("clothing/update_cart , views.update_cart , name="add-to_vishlist"),
path("clothing/update_cart , views.update_cart , name="your_checkout_view ),
path("clothing/your_checkout_view ", views.your_checkout_view , name="your_checkout_view ),
path("clothing/remove_from_wishlist"),
path("clothing/remove_from_wishlist"), views.remove_from_wishlist, name="remove_from_wishlist"),
path("clothing/remove_from_wishlist"), views.remove_from_wishlist, name="remove_from_wishlist"),
path("clothing/order_history", views.order_history, name="order_nistory"),
path("on_sale_products", views.orasle_products, name="avallable_products"),
path("on_sale_products", views.orasle_products, name="upload_product"),

if settings.DEBUG:
urlpatterns += static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
```

FIGURE 7: API Naming Best Practices

### 6 Project Management Tool

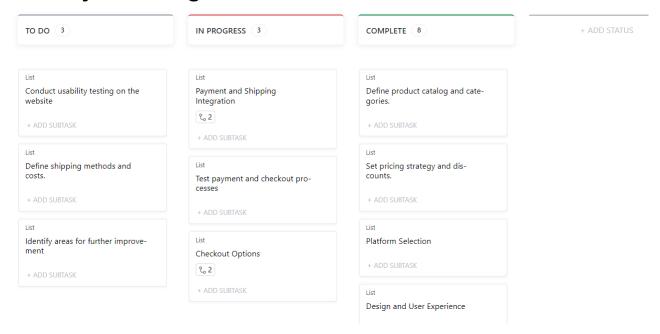


FIGURE 8: Utilizing ClickUp as a Project Management Tool

### 7 Project Management

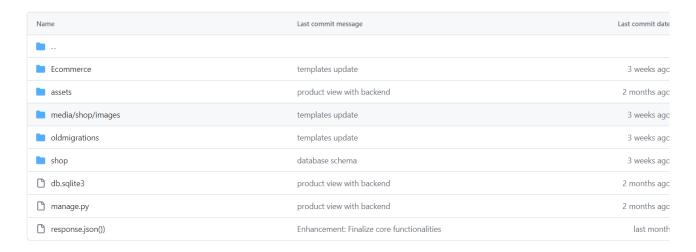


FIGURE 9: Leveraging GitHub as an Integrated Project Management

### 8 Code Snippets

```
@csrf_exempt
def add_to_cart(request):
    if request.method == 'POST':
        product_id = request.POST.get('product_id')
       user_id = request.user.id
        product = Product.objects.get(id=product_id)
        if Cart.objects.filter(product_id=product_id, user_id=user_id, status='Active').exists():
            return JsonResponse({'message': 'Product already added to the cart'})
        if product.quantity \leftarrow 0:
            return JsonResponse({'message': 'Product is out of stock'})
            if Cart.objects.filter(product_id=product_id, user_id=user_id, status='Deactive').exists():
               cart = Cart.objects.get(product_id=product_id, user_id=user_id, status='Deactive')
               cart.quantity = 0
               cart.save()
               cart_action = 'UPDATE'
               create_audit_log(cart.id, cart_action, request.user, product.id , "Active")
               return JsonResponse({'message': 'Product added to the cart successfully'})
               cart = Cart.objects.create(product_id=product, user_id=user_id , quantity=0)
               cart.save()
               # create audit log
cart_action = 'INSERT'
                create_audit_log(cart.id, cart_action, request.user, product.id , "Active")
                return JsonResponse({'message': 'Product added to the cart successfully'})
```

FIGURE 11: Exemplary Code Snippet

```
Shofy
```

FIGURE 12: Exemplary Code Snippet

```
def on_sale_products(request):
   if request.method == "GET":
       products = Product.objects.all()
       product_data = []
       for product in products:
           quantity = product.quantity
           if quantity > 0:
               weekly_offer = WeeklyOffers.objects.filter(product_id=product_id , status = "Active").first()
               if weekly_offer:
                   id = product.id
                   image = ProductImage.objects.get(product_id=id)
                   product_dict = {
                        'product': product,
                         'price': weekly_offer.offer_price,
                       'image': image.image,
                        'side_image': image.side_image,
                        'back_image': image.back_image,
                        'front_image': image.front_image,
```

FIGURE 13: Exemplary Code Snippet

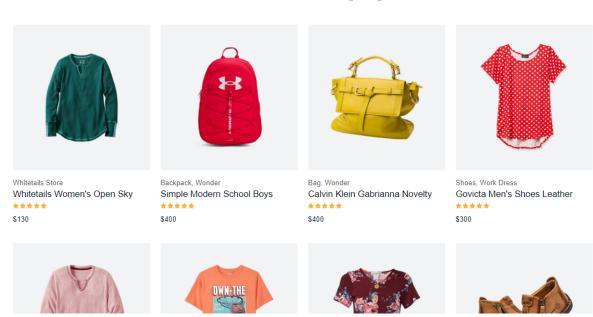
FIGURE 14: Exemplary Code Snippet

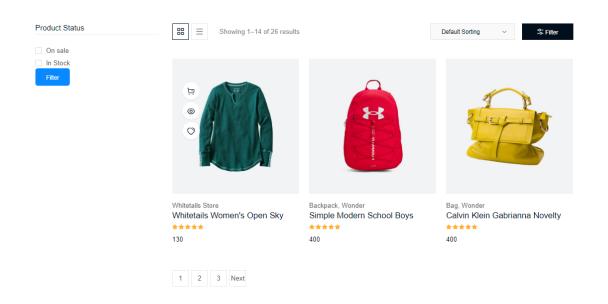
FIGURE 15: Exemplary Code Snippet

### 9 Screens Layout along with navigation flow

# Customer Favorite Style Product

All Collection • Shoes • Clothing • Bags





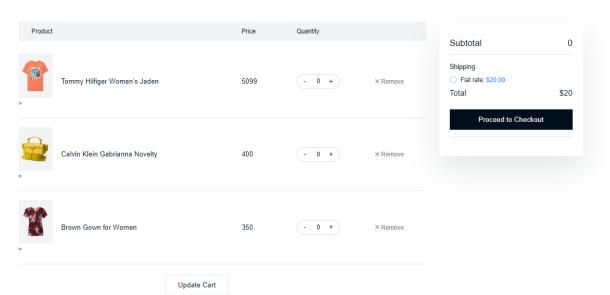
December 2023 Shofy

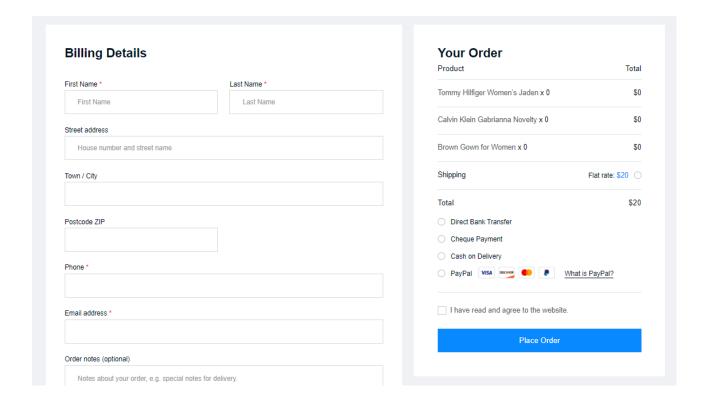
### Wishlist

Home · Wishlist

Product		Price	Action			
	Govicta Men's Shoes Leather	\$300	Add to Cart	×Remove		
	Brown Gown for Women	\$350	Add to Cart	×Remove		
Ê	Simple Modern School Boys	\$400	Add to Cart	×Remove		
Go To Cart						

# Shopping Cart Home · Shopping Cart





### 10 Target Audience

#### **Online Shoppers:**

Individuals who prefer the convenience of online shopping for a wide range of products.

#### **Tech-Savvy Consumers:**

Users comfortable with digital platforms and technology, seeking a seamless and user-friendly online shopping experience.

#### **Fashion Enthusiasts:**

Those with an interest in fashion and trends, looking for a platform offering a diverse selection of clothing, accessories, and related products.

#### **Busy Professionals:**

Individuals with hectic schedules who value the efficiency of online shopping to meet their needs without spending excess time in physical stores.

#### **Budget-Conscious Consumers:**

Shoppers who appreciate the ability to sort products based on price, allowing them to make informed decisions according to their budget.

#### **Gift Shoppers:**

Individuals seeking a platform to explore and purchase gifts for various occasions, utilizing wishlist features for thoughtful and planned gifting.

#### **Security-Conscious Users:**

Consumers who prioritize secure transactions and personalized experiences, appreciating a robust login and signup process for account management.

#### **E-commerce Enthusiasts:**

Individuals who actively engage in online shopping and seek platforms that provide a comprehensive and enjoyable shopping experience