### **Project Completion Report – Ecom (Django E-commerce Application)**

# 1. Project Setup

• A new Django project named Ecom was created using the command:

## django-admin startproject Ecom

• An application named store was created within the project using:

# python manage.py startapp store

• The store app was successfully added to the INSTALLED\_APPS section in settings.py.

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'store',
]
```

# 2. URL Configuration

• The store app's URLs were included in the main project's URL configuration file (Ecom/urls.py).

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('store/', include('store.urls')),
]
```

• A dedicated urls.py file was created inside the store application folder to manage its URL routing.

```
➤ Ecom
> screenshots
➤ store
> migrations
♣ __init__.py
♣ admin.py
♣ apps.py
♣ models.py
♣ tests.py
♣ tests.py
♣ views.py
➡ db.sqlite3
♣ manage.py
① README.md
```

#### 3. Model Creation

- Models were defined in store/models.py according to the provided schema.
- Appropriate ForeignKey relationships were established between models to ensure data integrity and relational consistency.

## 4. Database Setup

- The project was configured to use SQLite3 as the database backend.
- Database migrations were created and applied successfully to generate the necessary tables in the database.

### 5. Admin Interface

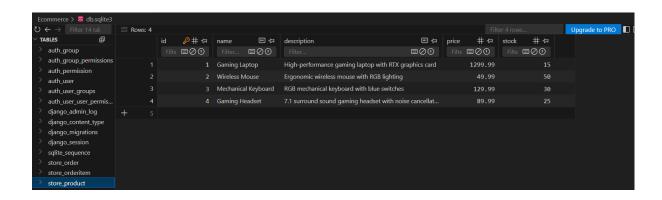
- All created models were registered in the Django admin site to enable easy data management.
- Admin access was verified and functional.

## 6. Testing

- Sample users, products, and orders were added through the admin interface.
- The database schema and model relationships were validated successfully based on test entries.

#### **Database Schema**

### **Product Table**



#### **Order Table**

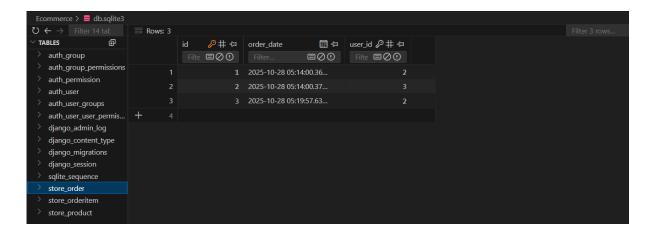
| Field Name | Type | Description |

|-----|

| id | Primary Key | Unique identifier for each order |

| user | Foreign Key (User) | References the user who placed the order |

order\_date | Timestamp | Date and time when the order was created |



### **OrderItem Table**

| Field Name | Type | Description |

|-----|

| id | Primary Key | Unique identifier for each order item |

order | Foreign Key (Order) | References the related order |

| product | Foreign Key (Product) | References the purchased product |

| quantity | Integer | Quantity of the product ordered

