Proposal: Online Stationery Shop

Date: 30 September 2022

# Github Repository Link

<https://github.com/Anshuman33/ecomproj>

# Introduction

The new age online stationery shop provides a variety of stationeries for individuals, students, schools, organizations, and offices along with the feature of subscription based stationery supplies and customized stationery products.

# Features

## Must have

1. Customers can browse, add products in their cart without signing up on the platform.
2. Users can select how much quantity of an item they want.
3. User authentication
4. Stationery products are organized categorically.
5. Search engine to quickly search products using keywords.
6. Suppliers register themselves on the platform by signing up on the platform.
7. Suppliers can update the stocks/items (along with price) offered by them by logging into their portals.
8. Payment gateway integration for making online payments.
9. Automatic bill generation.

## Good to have

1. Subscription based option for periodical supplies of stationery (mainly for organizations like school, offices, etc.).
2. Provide customization options on stationery items. For eg. customized theme based stationery pouch.
3. Selecting delivery date, and additional option for users to choose delivery time slot as well.
4. Search filters for helping users search desired products.
5. Dynamic Pricing/Product Offers depending on market demand.
6. Recommendations based on users past purchases.
7. Order tracking.
8. Grievance/complaints per product per order, and option for refund/exchange.
9. Users can give feedback for each product they have received.

# Database Schema

Date: 7 October 2022

## Relations

* **Customer**
  + **customer\_id**
  + email
  + password
  + phone\_number
  + first\_name
  + last\_name
  + address
  + city
  + State
  + pincode
* **Supplier**
  + **supplier\_id**
  + name
  + Email
  + password
  + phone\_number
  + address
  + city
  + State
  + pincode
* **Product**
  + **product\_id**
  + product\_name
  + supplier\_id (references Supplier.supplier\_id)
  + stock\_quantity
  + price
  + Brand
  + category
  + features
* **Orders**
  + **Order\_id**
  + customer\_id (references Customer.customer\_id)
  + order\_date
  + expected\_delivery\_date
  + Delivery\_date
  + Shipment\_id
  + status
* **Order\_item**
  + **order\_id (References Orders.order\_id)**
  + **product\_id (References Products.product\_id)**
  + purchase\_price
  + quantity
  + rating
  + review
* **Transactions**
  + **transaction\_id**
  + Amount
  + Date
  + order\_id (References orders.order\_id)

# API Design

### Register Customer

### Register Supplier

### Login

### Get all Products

Method = GET

API route: /products

### Get a specific product

Method = GET

API route: /products/:id

### Filter products by brand, category, features

Method = GET

API route: /products?brand={{brand}}&category={{category}}&features={{features}}

### Search products with a search query

Method = GET

API route: /products?q={{query}}

### Add a new Product

Method = POST

API route: /products

Body:

{

“product\_name”:

“supplier\_id”:

“stock\_quantity”:

“price”:

“brand”:

“category”:

“features”:

}