

Day-2

Technical Requirement for Ladies Beauty Products Marketplace E-Commerce Website

Frontend Requirement :

- User-Friendly Interface
- Clear Browsing Navigation
- Responsive designs for mobile and desktop devices

Website Components:

- Home
- Categories
- About us
- FAQ
- Contact us
- Sign in / Login
- Add to Cart
- Search Bar

System Architecture

Back End (Sanity CMS):

Stores and manages data for Product-Customer Details-Orders.

Front End (Next.js / TypeScript / Tailwind CSS):

Fetch data from Sanity CMS to display products.

Third Party APIs:

Payment Gateway - (Strip / PayPal)

Shipment Tracking – (DHL / FedEx)

Inventory and order updates

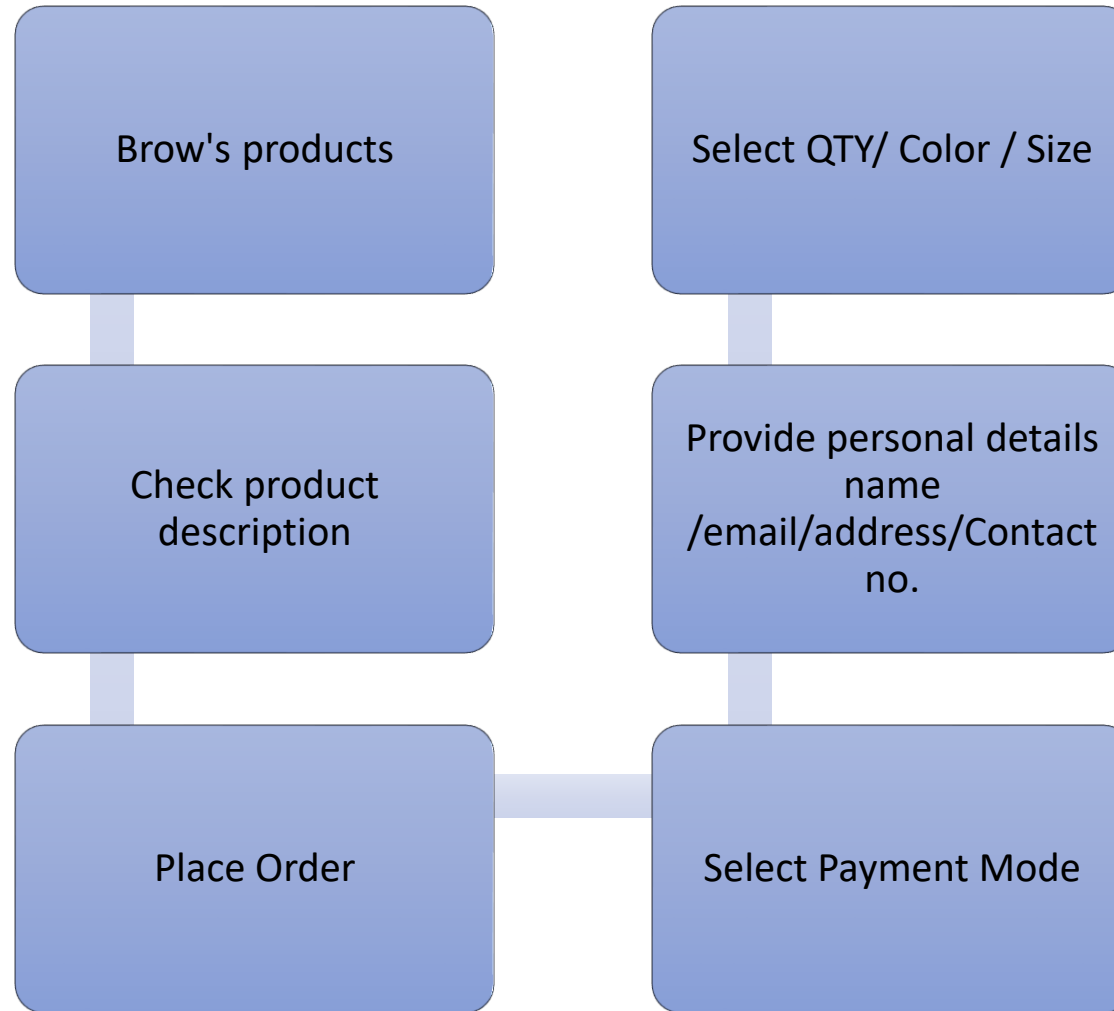
Libraries:

Redux

Tailblocks

React Icons

Order Process:



Shipping Details:

Name.

Email.

Contact No.

Complete Address.

City.

State.

Region.

Postal Code.

```
{  
  "type": "shipping confirmation",  
  "userId": "12345",  
  "orderId": "67890",  
  "message": "Your order has been confirmed"  
}
```

```
{  
  "billingDetails": {  
    "address" {  
      "street":  
      "city":  
      "country":  
      "postalCode":  
    },  
    "paymentMethod": "credit cards",  
    "paymentStatus": "paid",  
  }  
}
```

Product Schema:

```
export default{
  name: 'product',
  type: 'document',
  title: 'product'
  Fields:[
    {name: 'name', type: 'string', title: 'product Name'},
    {name: 'description, type: 'text', title: 'Description'},
    {name: 'price', type: 'number', title: 'Price'},
    {name: 'stock', type: 'number', title: 'Stock Level'},
    {name: 'image', type: 'image', title: 'Product Name'},
    {
      name: 'category',
      type: 'reference',
      to: [{ type: 'category'}],
      title: 'Category',
    },
  ],
}
```

Order Schema:

```
export default{
  name: 'order',
  type: 'document',
  title: 'Order'
  Fields:[
    {name: 'orderId', type: 'string', title: 'Order ID'},
    {name: 'customer, type: 'reference', to:[{type: 'customer'}], title:
    'Customer'},
    {
      name: 'product',
      type: 'array,
      of: [
        {
          type: 'object',
          Fields: [
            {name: 'product', type: : 'reference', to:[{type: 'product'}], title:
            'Product'},
            {name: 'quantity', type: 'number', title: 'Quantity'},
```

```
],
],
],
title: 'Products'},
}
{name: 'totalAmount', type: 'number, title: 'TotalAmount'},
{name: 'status', type: 'string': 'Order Status', options:
{list":["Pending', 'Shipped', Delivered']}} };
{name: 'createdAt' type: 'datetime', title: 'Order Date'},
],
},
```

Customer Schema

```
export default{
  name: 'customer',
  type: 'document',
  title: 'Customer'
  Fields:[
    {name: 'name', type: 'string', title: 'Customer Name'},
    {name: 'email, type: 'string', title: 'Email'},
    {name: 'contact Number', type: 'number', title: 'Contact Number'},
    {name: 'address', type: 'text', title: 'Address'},
    {
```

Category Schema

```
export default{  
  name: 'category',  
  type: 'document',  
  title: 'Category'  
  Fields:[  
    {name: 'name', type: 'string', title: 'Category Title'},  
    {name: 'description', type: 'text', title: 'Description'},  
  ]  
};
```


API Endpoints

Endpoints	Method	Purpose	Response Example
/products	GET	Fetches all product details	{ "id": 1, "name": "Product A", "price": 100 }
/cart	POST	Adds items to the cart	{"cartId": "abc123", "total": 200}
/checkout	POST	Payment process	{"orderId": 12345, "status": "completed"}
/delivery status	GET	Fetches real time delivery status	{"orderId": 12345, "status": "In transit"}
/products/{id} reviews	POST	Adds reviews to a product	{"reviewId": 8674, "status": "success"}