

# Technical Requirement Document - Frontend

## 1.0 INTRODUCTION

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing websites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace.

The objective of this project is to develop a general-purpose e-commerce store where products like clothes can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with online shopping for clothes.

## 2.0 OVERALL DESCRIPTION

An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as a credit card number. An e-mail notification is sent to the customer as soon as the order is placed.

### 2.1 Description

- Any member can register and view available products.
- Only registered members can purchase multiple products regardless of quantity.
- ContactUs page is available to contact Admin for queries.
- There are three roles available: Visitor, User.
- Visitors can view available products.
- Users can view and purchase products.

### 2.2 Web Pages details

- Homepage
- Login / Register page
- Category page
- Search page
- Product page
- Cart page
- User profile
- Place order
- Payments page
- Wishlist

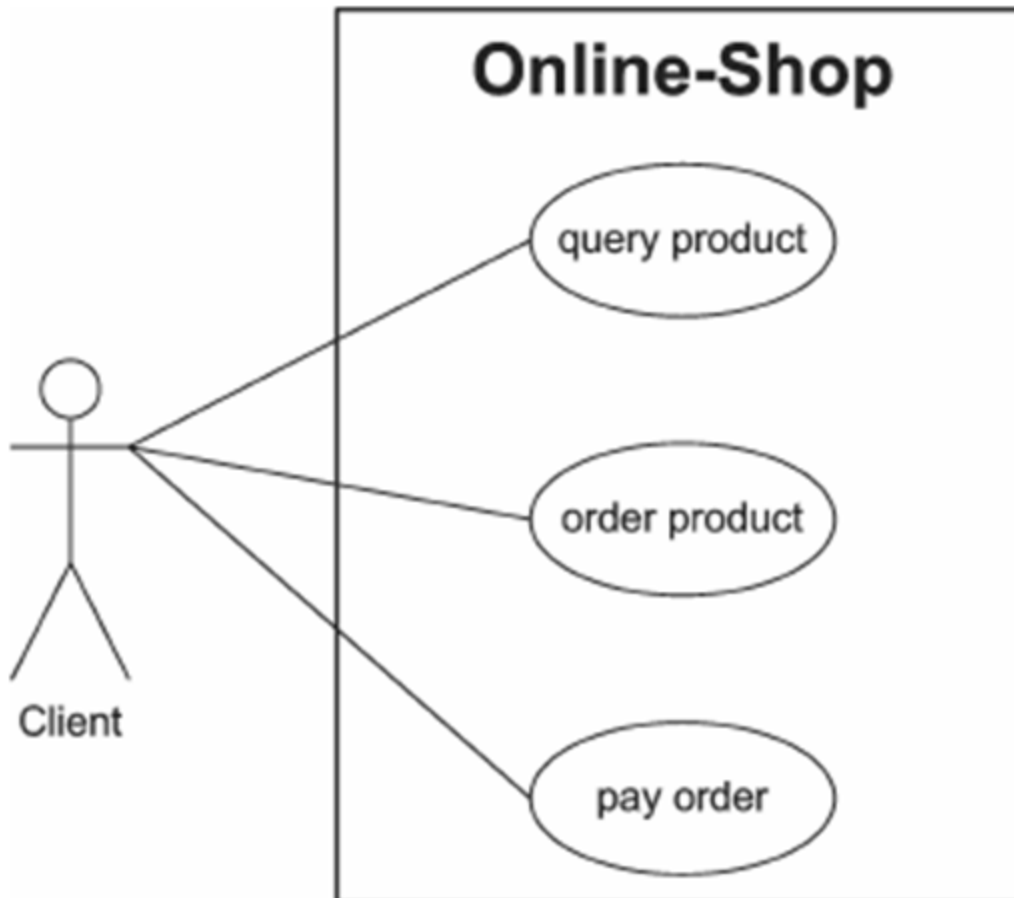
### 2.3 Tech Stack Details

- HTML, CSS, JavaScript
- Bootstrap
- ReactJS
- SCSS
- DOM Testing Library
- Jest and React Testing Library
- React Router
- Sweet Alert
- React Router

### 2.4 Out of scope:

- Admin Dashboard
- Seller Account

## 3.0 USE-CASE DIAGRAM:



#### 4.0 ONLINE SHOPPING APPLICATION:

Anyone can view the Online Shopping portal and available products, but every user must log in by his/her username and password in order to purchase or order products. Unregistered members can register by navigating to the registration page.

#### 4.1 HOMEPAGE:

The Home Screen will consist of a screen where one can browse through the products, offers, and various categories that are available on the site. Users can choose a specific category as per their interest or search for a product directly from the header search option.

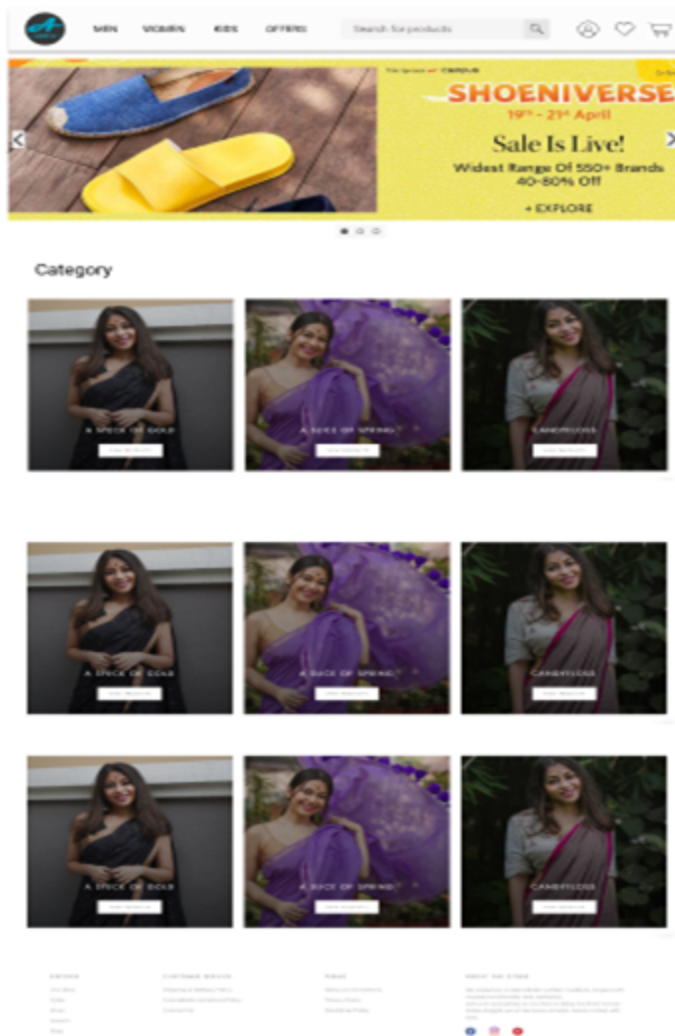


Figure1: Home Page

#### User flow / actions:-

- Open the offer from Carousel and go to the offer page/category.
- Open a specific category page
- Goto login / registration page
- Search for any specific product

#### Technical Implementation:-

- A homepage component will be loaded in the main react component when the main domain of the site is visited.
- Homepage component will consist of the following elements
  - Carousel Component This Will Input 4 numbers of images along with their click action and will generate a responsive slider for these images
  - Categories component This will fetch and display top categories to display on the homepage

#### 4.2. CLOTHING PAGE (PRODUCTS):

This page consists of product details such as product images, description, variants, offers, and stock availability. Users can add products to the cart or wishlist from this page. This page appears the same for both visitors and users.

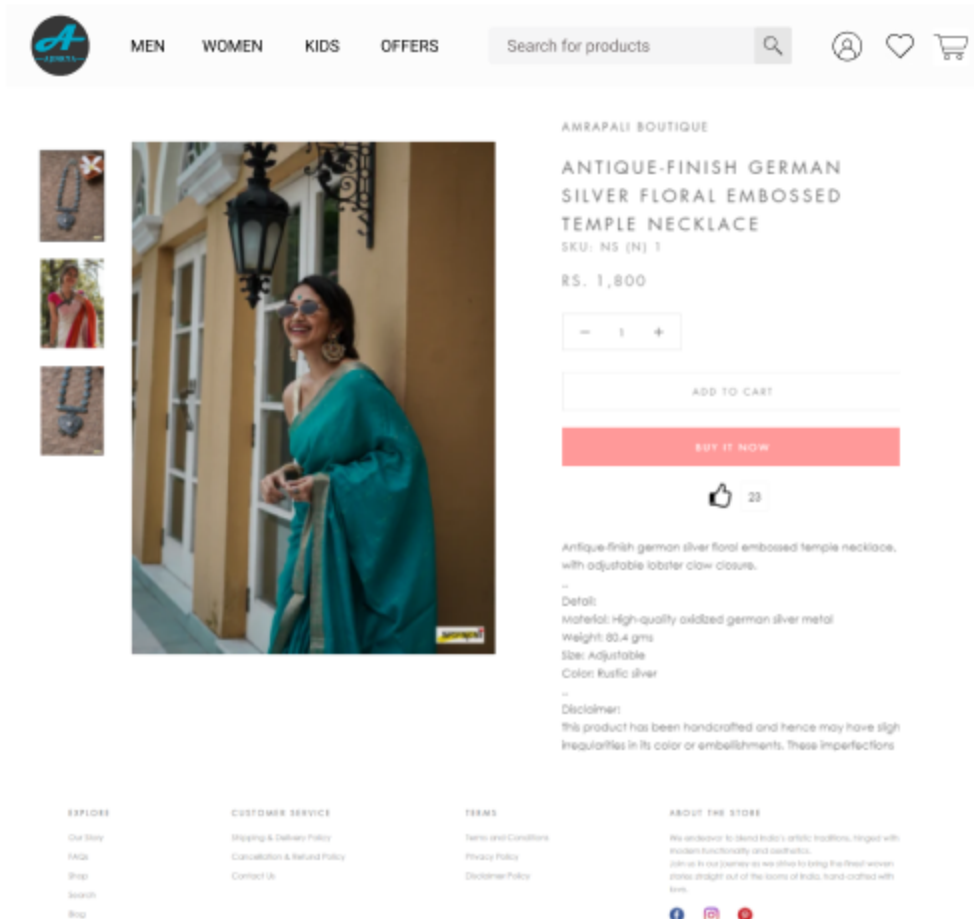


Figure 2: Clothing Page

#### User Flow/ actions:-

- Add product into the cart
- Add the product to the wishlist

#### Technical Implementation:-

- A product page component will be loaded in the main react component when a specific product is visited.
- The product page component will consist of the following elements
  - Carousel Component This Will Input 4 numbers of images and will generate a responsive slider for these images
  - Product description Component This will fetch and display specific product details and will display them.


#### 4.3 Order/Cart Page:

Cart page shows all the products added by a user. Users can manage which products to buy and decide the quantity of the product. Registered users can order desired products from here.

BAG ----- ADDRESS ----- PAYMENT

My Shopping Bag (2 Items)

Total: ₹838




**DILLINGER**  
Men Navy Blue Colourblocked Round Neck T-shirt  
Sold by: ELCINCO INC

Size: M Qty: 1

✓ Delivery by 28 Apr 2021

₹449  
~~₹899~~ 50% OFF

[REMOVE](#)
[MOVE TO WISHLIST](#)



**Moda Rapido**  
Men Maroon Printed Round Neck T-shirt  
Sold by: Vision Star

Size: M Qty: 1

✓ Delivery by 23 Apr 2021

₹389  
~~₹649~~ 40% OFF

[REMOVE](#)
[MOVE TO WISHLIST](#)

PRICE DETAILS (2 Items)

Total MRP	₹1,548
Discount on MRP	-₹710
Coupon Discount	<a href="#">Apply Coupon</a>
Convenience Fee	<a href="#">Know More</a> ₹99 FREE

Total Amount ₹838

[PLACE ORDER](#)

Figure 3: Order Us Page

#### User Flow/ actions:-

- Add product into the cart
- Remove a product from the cart
- Add the product to the wishlist

#### Technical Implementation:-

- A cart page component will be loaded in the main react component when the user clicks on the cart.
  - This page will fetch all the details of the products present in the user cart and also show the price details
  - Also, the user will be able to manage his cart items.
    - Remove product functionality
    - Change product quantity functionality

#### 4.4 Contact Us Page

Contact us page show the website contact information along with social media handles. Visitors and Registered users can contact the website for any support.

# Contact us

Feel free to connect if you have any queries related to the products or if you want to know more about bulk orders, international orders/shipping rates and collaborations.

Monday - Saturday (11:00am - 5:00pm IST)

E-mail: [info.narmaada@gmail.com](mailto:info.narmaada@gmail.com)

Phone Number: +91-9098399919

WhatsApp: +91-9098399919



Name \*

First Name

Last Name

Email \*

Message \*

Send

Figure 4: Contact Us Page

## User Flow/ actions:-

- Read contact details
- Navigate to social links
- Fill and send the contact form

## Technical Implementation:-

- A contact us component will be loaded in the main react component when the user clicks on the cart.
  - On submitting this form with proper details admin will receive a mail containing the entered information

## 4.5 LOGIN / REGISTER PAGE:

New users can register here also existing users can log in to the site. A user must log in with his user name and password to the system after registration. This feature used by the user to login into the system. A user must log in with his user name and password to the system after registration. If they are invalid, the user not allowed to enter the system

LOGIN or SIGNUP

Please enter your e-mail

Email

CONTINUE

f t G

Figure 5: Login/Register Page

**User Flow/ actions:-**

- Register on the site using email Id
- Register on the site using social sites
- Login on the site using an email Id and password
- Login on the site using social sites
- Reset password

**Technical Implementation:-**

- A LoginSignup component will be loaded in the main react component when the user visits this page.
  - Integration of social sites for user login and signup
  - Manual login and signup functionality
  - reset password functionality

**4.6 SEARCH PAGE:**

This page shows various products based on the user's input, Users can open a product from here to view details about the product. Users can search for their specific products on this page.

## JEWELLERY

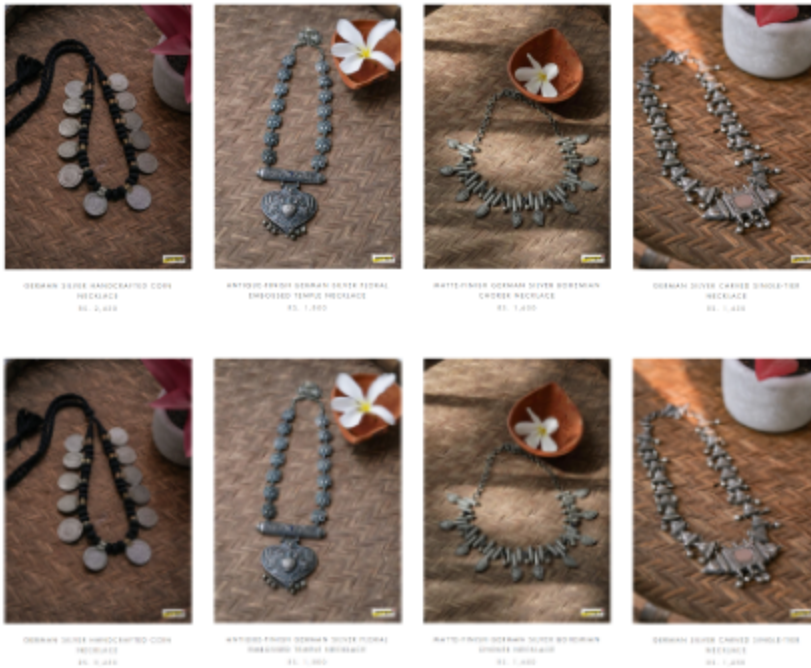


Figure 6: Search Page

### User Flow/ actions:-

- Users can search for their specific product
- Users can open particular products

### Technical Implementation:-

- A searchProduct component will be loaded in the main react component when the user visits this page.S
  - Fetch products based on user input
  - Implement streaming here until products are available

### 4.7 CATEGORY PAGE:

This page shows the offers and subcategories present in the specific category. Users can explore subcategory more or can view a product directly.



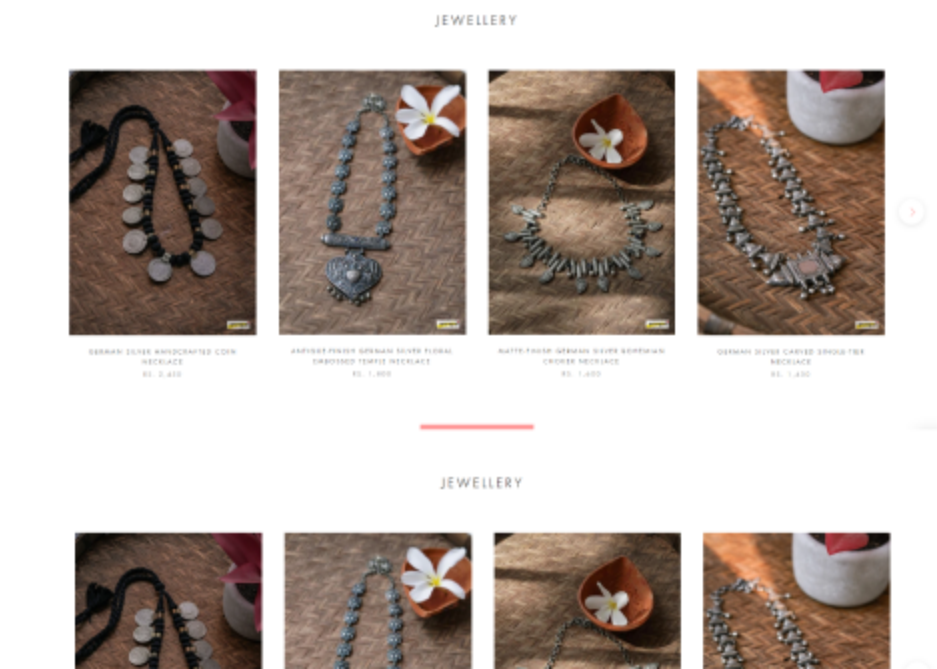
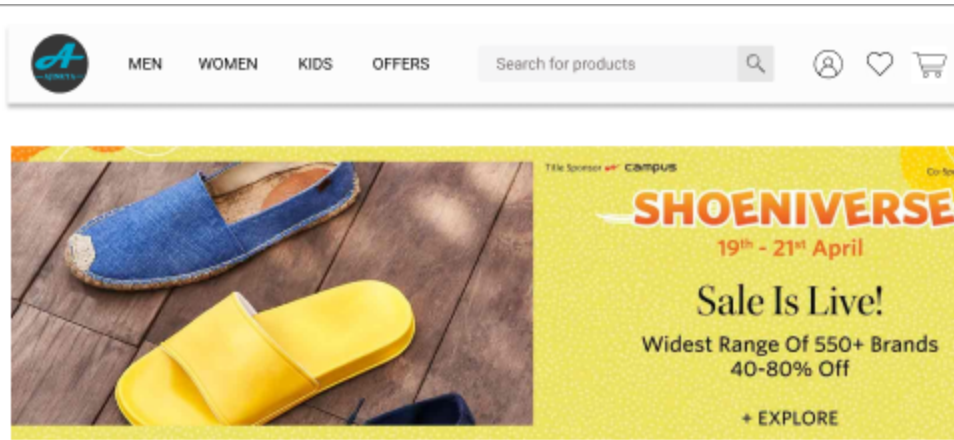


Figure 7: Category Page

#### User Flow/ actions:-

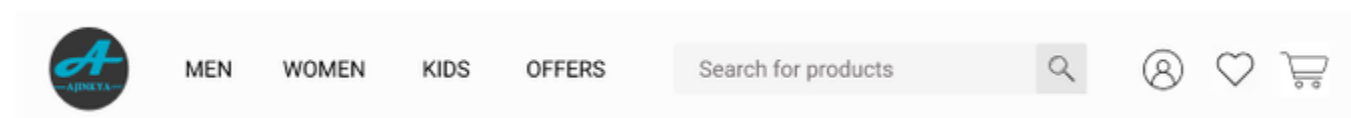
- Open the offer from Carousel and go to the offer page/category.
- Users can open particular products

#### Technical Implementation:-

- A category component will be loaded in the main react component when a specific category is selected by users.
- Category component will consist of the following elements
  - Carousel Component This Will Input 4 numbers of images along with their click action and will generate a responsive slider for these images
  - SubCategories component This will fetch and display top sub-categories 4 products in a specific category.

#### 4.8 Header and footer:

Users can view the header and footer on almost every page of the application, for easy navigation.



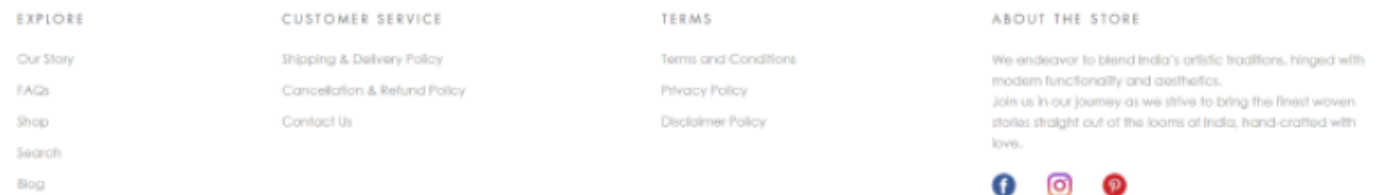


Figure 8: Header and Footer

#### User Flow/ actions:-

- Users can navigate to categories from the header
- Users can go to pages like cart, profile, wishlist, etc.
- Users can search specific products from the header
- Users can access various pages of the website like (customer support, social links, policies, etc)

#### Technical Implementation:-

- The main header component will be added in the main react component which will be added above all the pages.
- User status will be updated on the header whether the user is logged in or logged off
- The header will also consist of an input field that will take input from a user and will redirect the user to the search page along with user input

#### Outlinks:-

- Category page
- User profile
- Cart
- Wishlist
- Product search page
- Login / Signup page
- Homepage
- Contact us page
- Policies page

#### 4.8 Policies Page:

Users can read the terms and conditions, policies, and other information related to the website on this page.

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Figure 8: Header and Footer

### User Flow/ actions:-

- Read various website policies

### Technical Implementation:-

- A policies component will be loaded in the main react component when a specific policy is selected by users.