NeoSTORE

07.09.2017

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Overview

NeoSTORE is E-Commerce website where customers can buy a product online with ease. This website provides the tons of cutting edge technologies features of online purchasing. The objective of this project is to develop a general purpose e-commerce store where any product (such as furniture, table, bed) can be bought from the comfort of home through the Internet.

Technologies Used

I. Front end

The entire front is build with the Angular 2. For CSS framework Bootstrap is used.

II. Back end

The backend is in Node.js with Loopback framework by using MongoDB as database.

Technical specifications

The components of NeoSTORE website are listed and explained below.

I. Home page

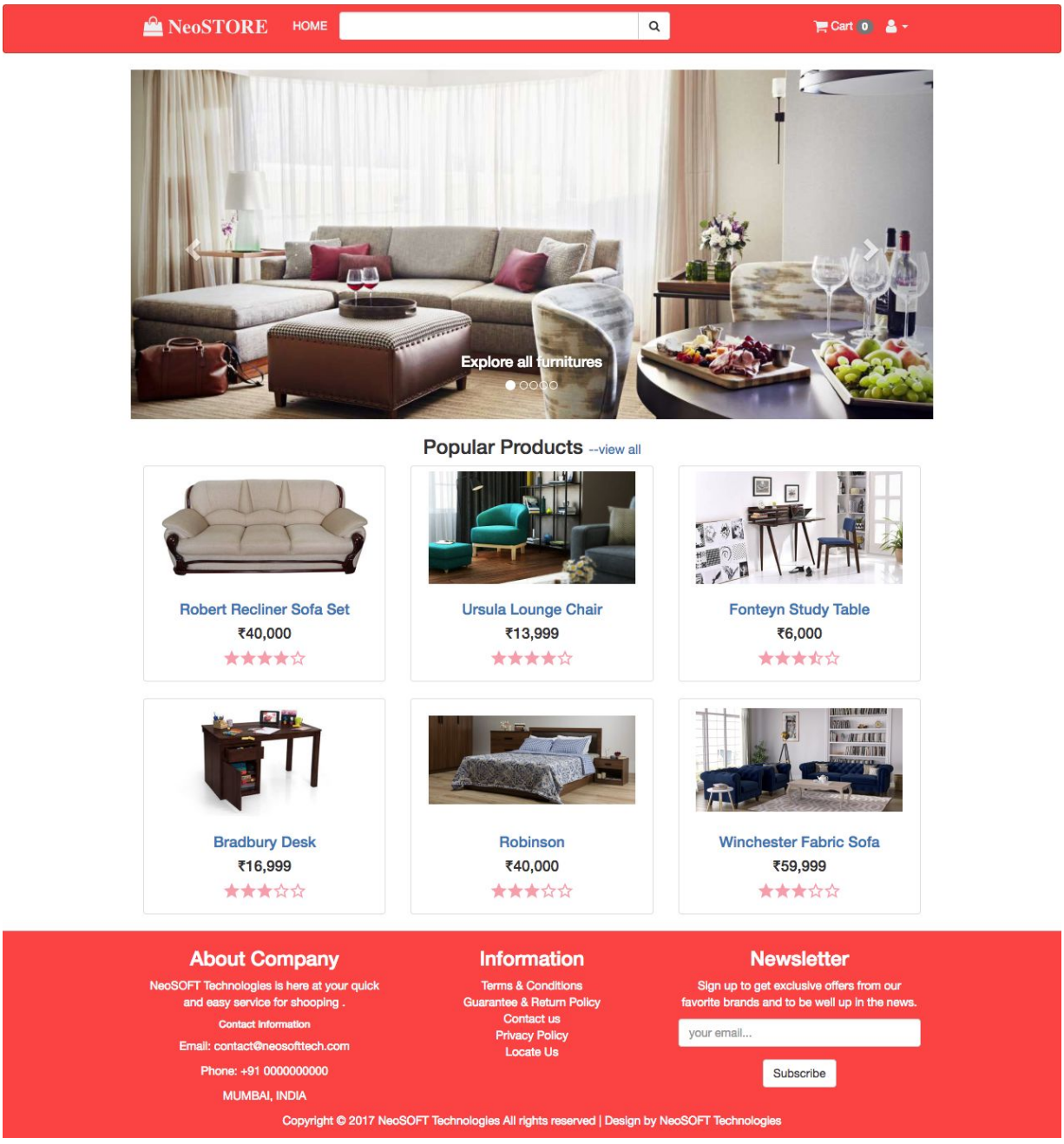

Fig: Home Page

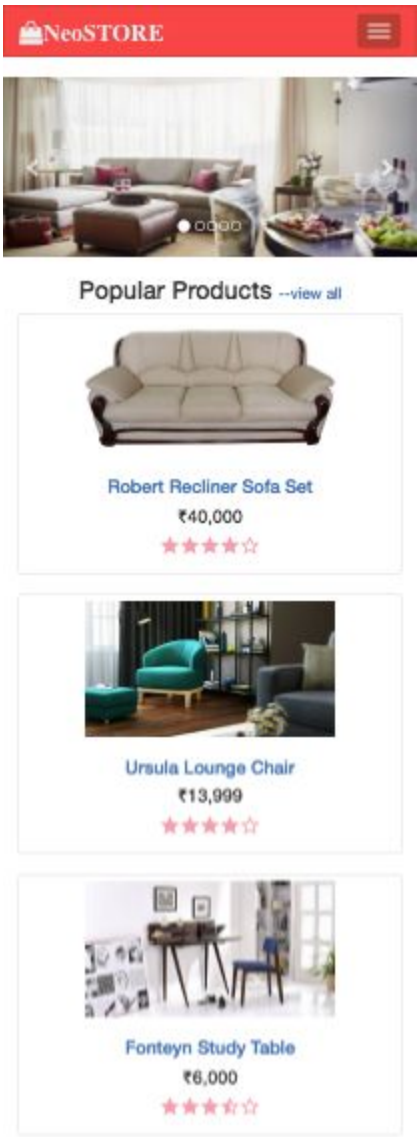

Fig: Home Page (Mobile)

This is the homepage or root page of the website.

The Home page consist of following parts

- Image slider

  In image slider we are displaying it as image of different categories we have.

- List of popular products

  In this we are displaying the list of the product ordered by the ratings of the products. The most highly rated product will make entry here but the limit of the product is to be set to 6.

II. Header and Footer

The Header and footer are available at every screens. The header and footer is different for cart and payment screens.

- Header

Fig: Header (Mobile)

Header consist of Branding, Product Search, Cart and User dropdown. User dropdown is conditional if user is logged in then it will display the User related components otherwise it will display login/register.

- User dropdown

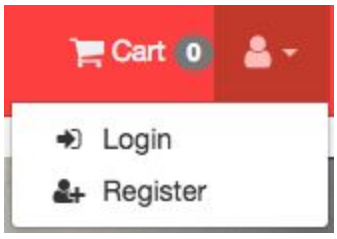

Fig: Without login

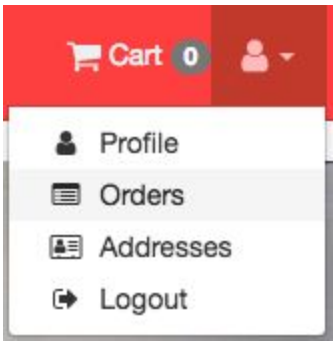

Fig: With login

- Product Search

  Product search for the name of the product. It will fetch the name directly from database and displays in the list like figure. When user click/select any one from list it will redirect to the product page of that selected product

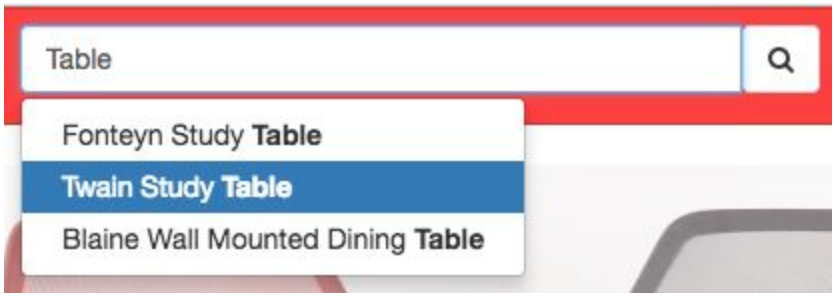

Fig: Product Search

- Footer

  Footer is displaying the information about NeoSTORE contact info, Terms & condition and Policies. The subscription for newsletter is not available right now.

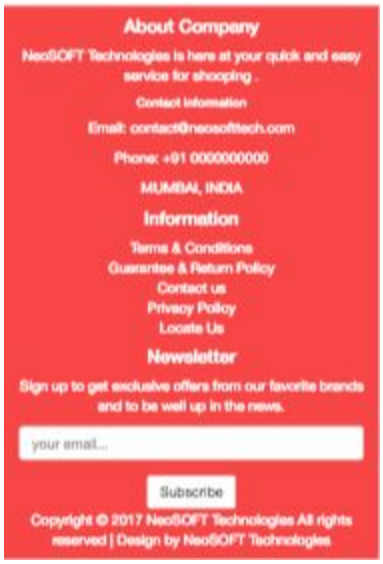

Fig: Footer (Mobile)

III. Login

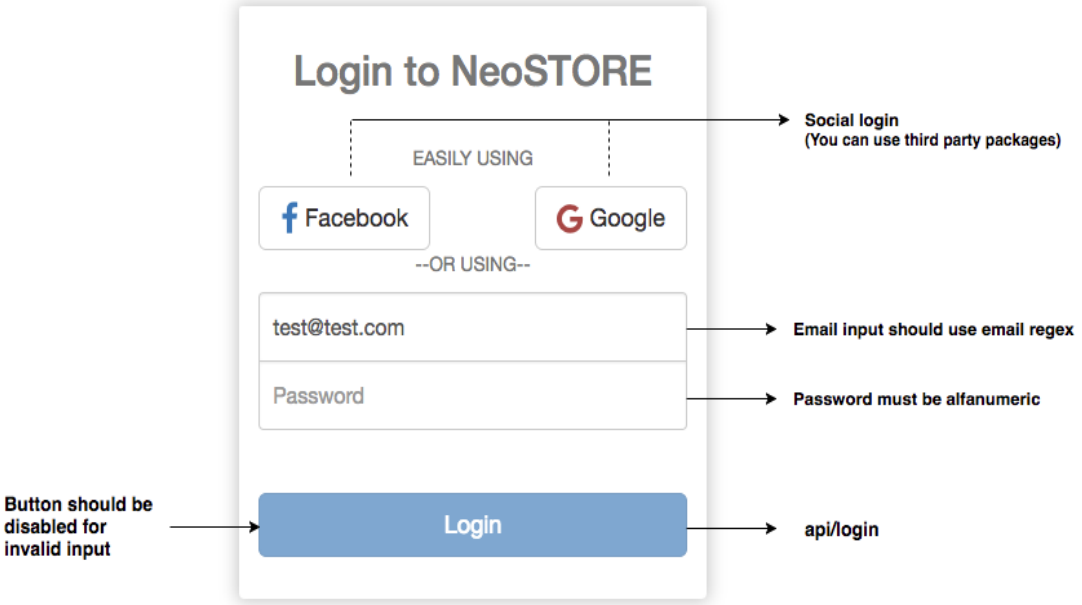

Fig: Login page

Fig: Login page (Mobile)

The Login page has following features.

- Input fields

  There are two input fields email and password as shown in figure. The validation is also done if user enters invalid inputs.The submit button should remains disabled for invalid inputs.

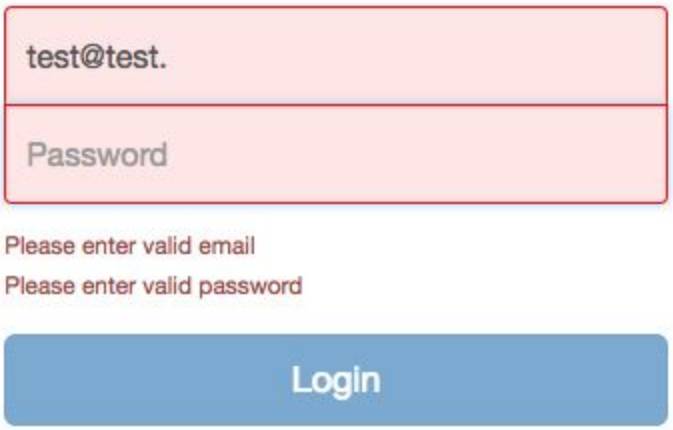

Fig: Login Form Validation

- Social login

  Social login is also implemented for login. There are also 3rd party angular packages for social login e.g [angular2-social-login]

- Api to hit

  GET api/user_accounts/login

IV. Register

The Register page has following features.

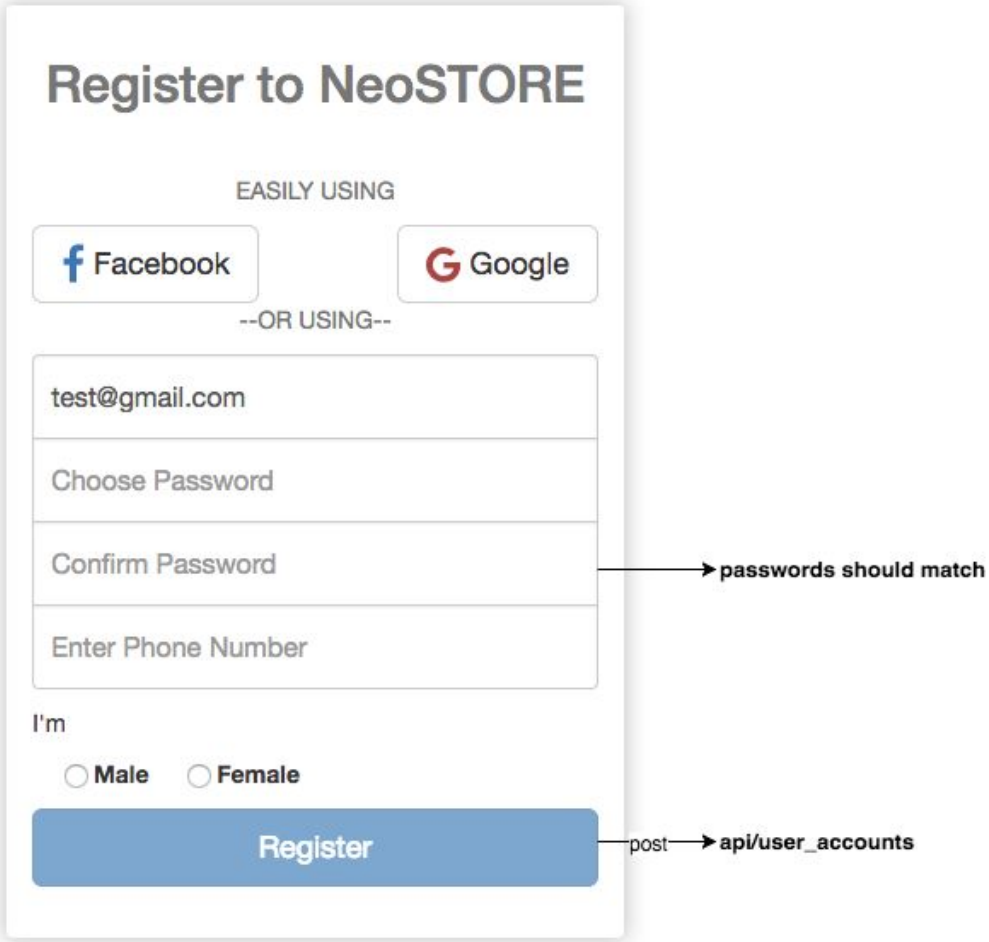

Fig: Register Page

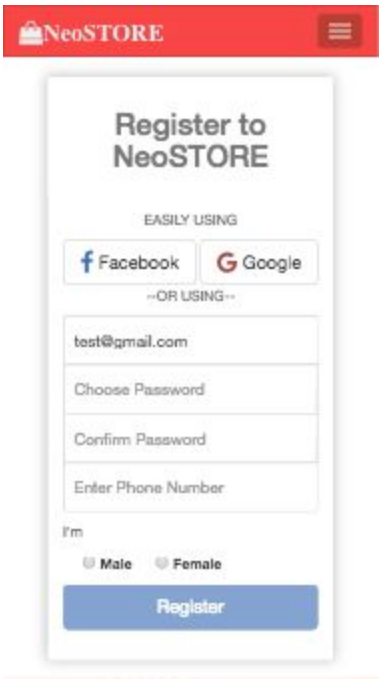

Fig: Register Page (Mobile)

- Input fields

  There are four input fields email, password, confirm password, mobile and gender selection as shown in figure. The validation is also done if user enters invalid inputs. The submit button should remains disabled for invalid inputs.

Fig: Register form validation

- Social login

  Social login is also implemented for register. There are also 3rd party angular packages for social login e.g [angular2-social-login]

- Api to hit

  POST api/user_accounts

V. Product List

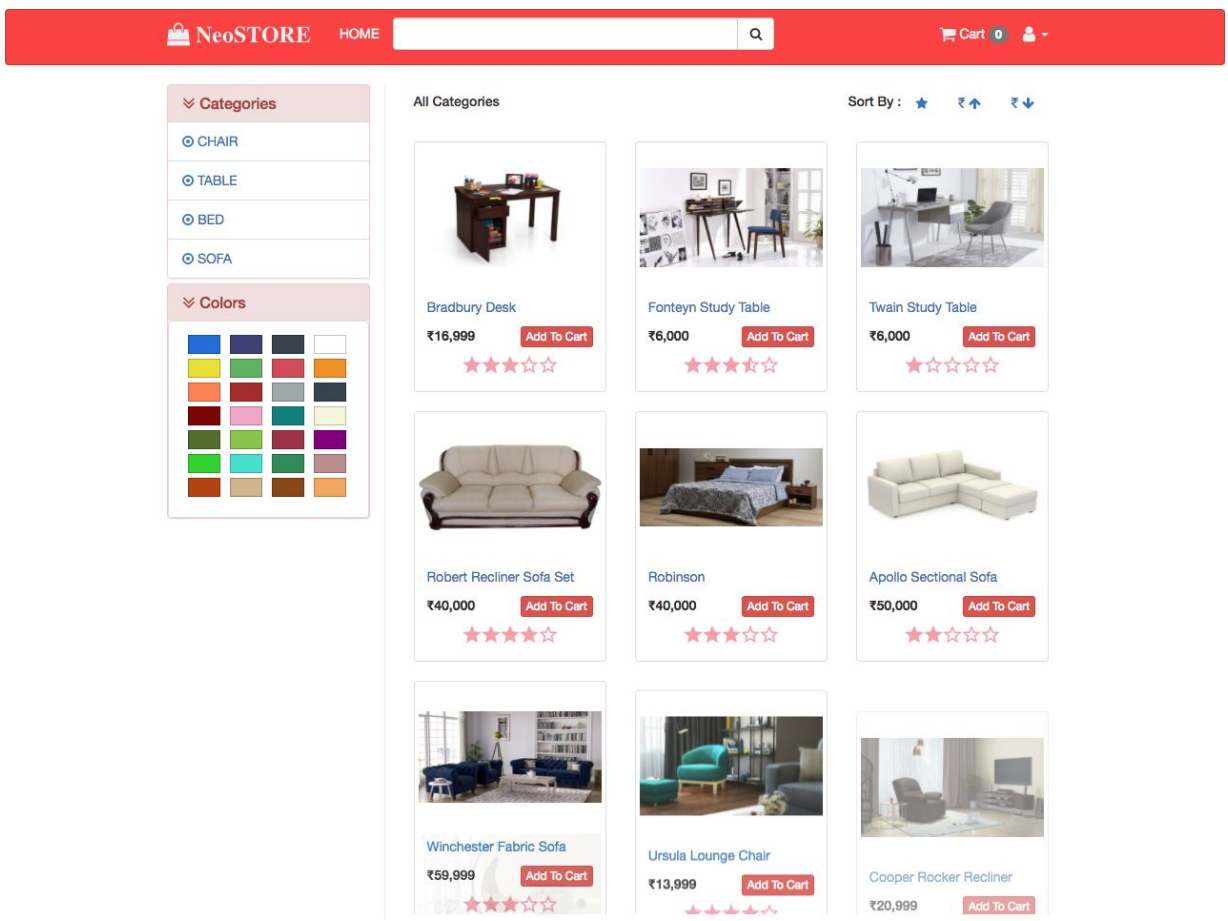

Fig: Product List Page(Some images are faded because of animation)

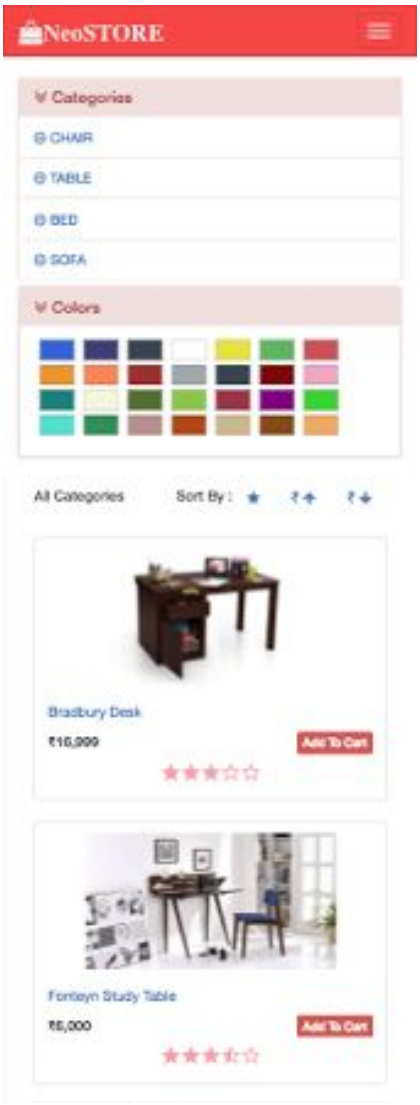

Fig: Product List Page (Mobile)

The Product List page contains following

- Listing of products

  Its includes the listing of products according to which api you hit to filter or sorts the products from database. When the product load it will animate entire list. **Angular Animation** is also used on loading of products.

- Product filters

  There are right now two filters for product by category and color. If user selected any category or colour or both so the list is reflected accordingly.

- Product sorting

  The product can also be sort by the price(High or Low) and rating(High).

- Lazy Loading of Products

  Lazy loading is implemented which means when the product list page is load then it will not load all the product from the database it will load the limited product of whatever will be the filter.

  E.g if we have 1000 products in sofa category and if we load all of them at once then it will crash both client and server machine so to avoid such problem server limits the number of products to be call at once say 10 then whenever the user scrolls to the end of the product list page then same api will call and next 10 product will appear. This whole process reduces the loads on to the server as well client as a result we will got the more performance.

- API to hit

  GET api/products For getting all products

  GET api/categories For getting all categories

  GET api/colors For getting all colors

VI. Product view

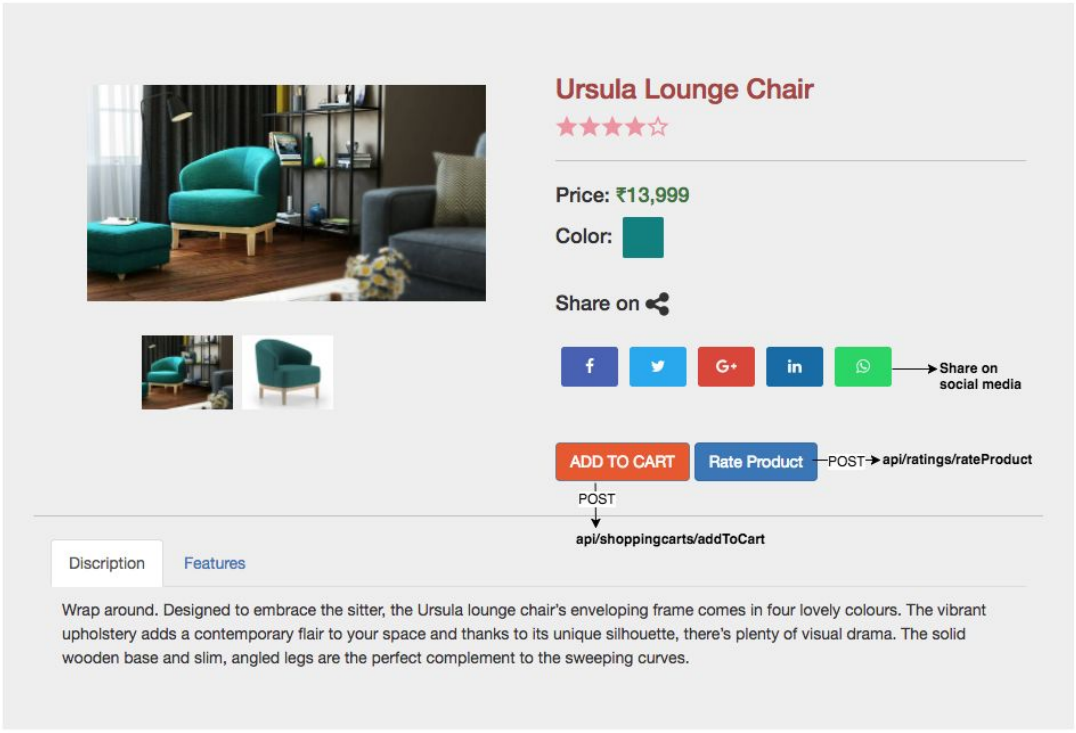

Fig: Single Product Page

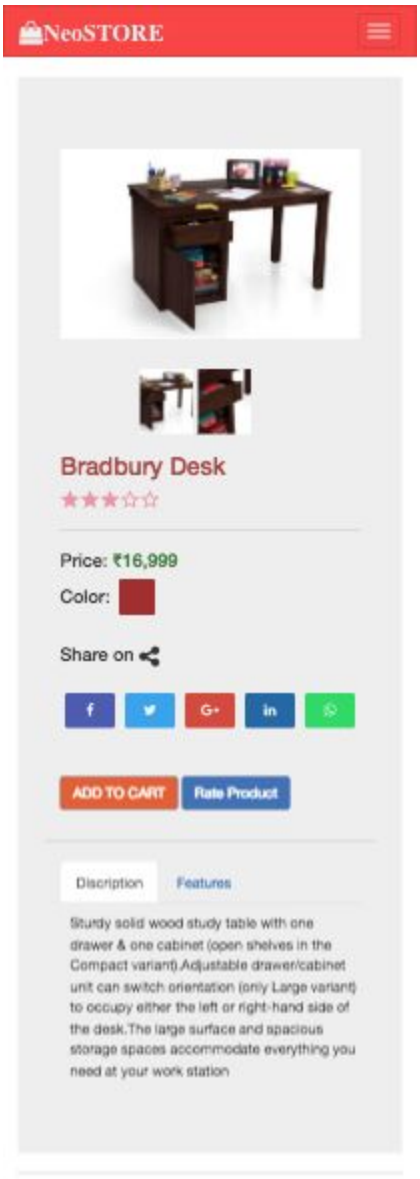

Fig: Single Product Page(Mobile)

- Image zoom

  This feature provides user to see small details of product image. It can be achieved by scrolling in or out over the image of the product.

- Rating

  User can rate the product from 1 to 5 stars. But only authorized user can only rate the product.

Fig: Rating

- Social Share

  User can also share any particular product on social media by using social share button.

Fig: Social Share

- Product full description

  The full description of product will gives the deep details of the product like dimensions, manufacturer, material, color etc.

- Api to hit

  GET api/products/product_id For getting product by id where product_id will be the actual id of the product e.g api/products/5982fc3eca395d99207e11e7

  POST api/shoppingcarts/addToCart For adding a product into the user cart

  POST api/ratings/rateProduct For rating any product but it requires access token as parameter

VII. Cart

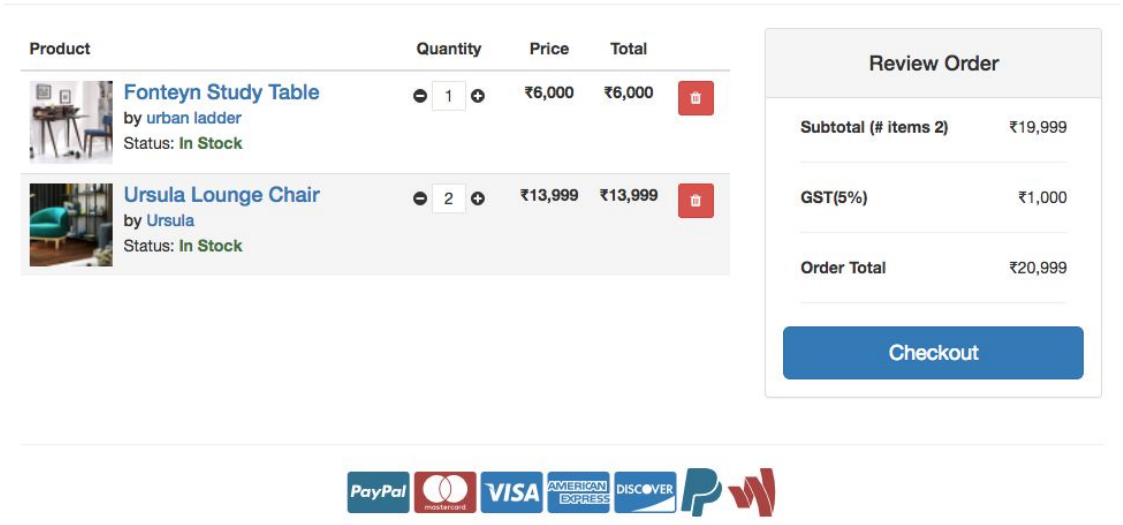

Fig: Cart Page

Cart includes following

- Product Listing

  In cart there is product list of the product which are added into to cart by user where name, manufacturer and stock availability is shown.

- Product Quantity

  Whenever the quantity is increased and decreased by user it will check into server for how much user can have quantity of the particular product . We have managed here for both logged in and without logged in user. Whenever user changes quantity the PATCH api will hit of cart items to update quantity.

- Delete Product

  Simply it will hit delete api to delete the products

- Checkout

  After all set the checkout button will redirect user to select delivery address and after that finally payment page. Checkout button has the **guard** for unauthorized user or if user is not logged in it will redirect user to login page.

- Api to hit

  PATCH api/shoppingcarts/cartItem_id For updating quantity of product where cartItem_id will be the actual id of the cart item id e.g api/shoppingcarts/5982fc3eca395d99207e11e7

  DELETE api/shoppingcarts/cartItem_id For deleting product from cart where cartItem_id will be the actual id of the cart item id e.g api/shoppingcarts/5982fc3eca395d99207e11e7

VIII. Payment

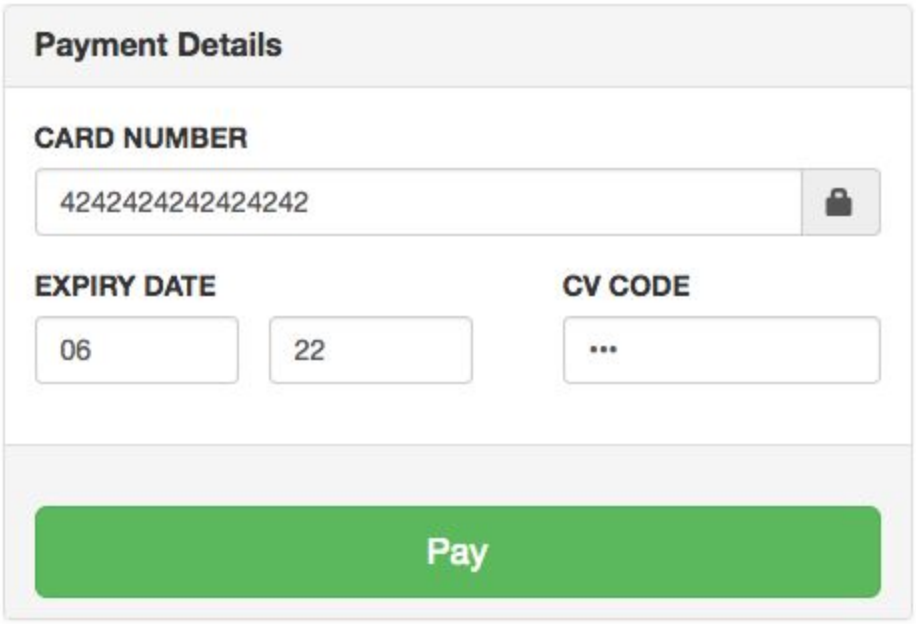

Fig : Payment page

When user hit checkout button it will redirect user to select delivery address page and after that finally payment page.

- Stripe Payment

  For secure payment Stripe Payment Gateway is used. Its provides lots of functionalities like easy management, testing and secure payments.

- Api to hit

  POST api/orders/order For payment

IX. User

User have the following components

- Profile
    - Api to hit

      PATCH api/user_accounts/user_id For edit profile

      POST api/images/upload For upload image

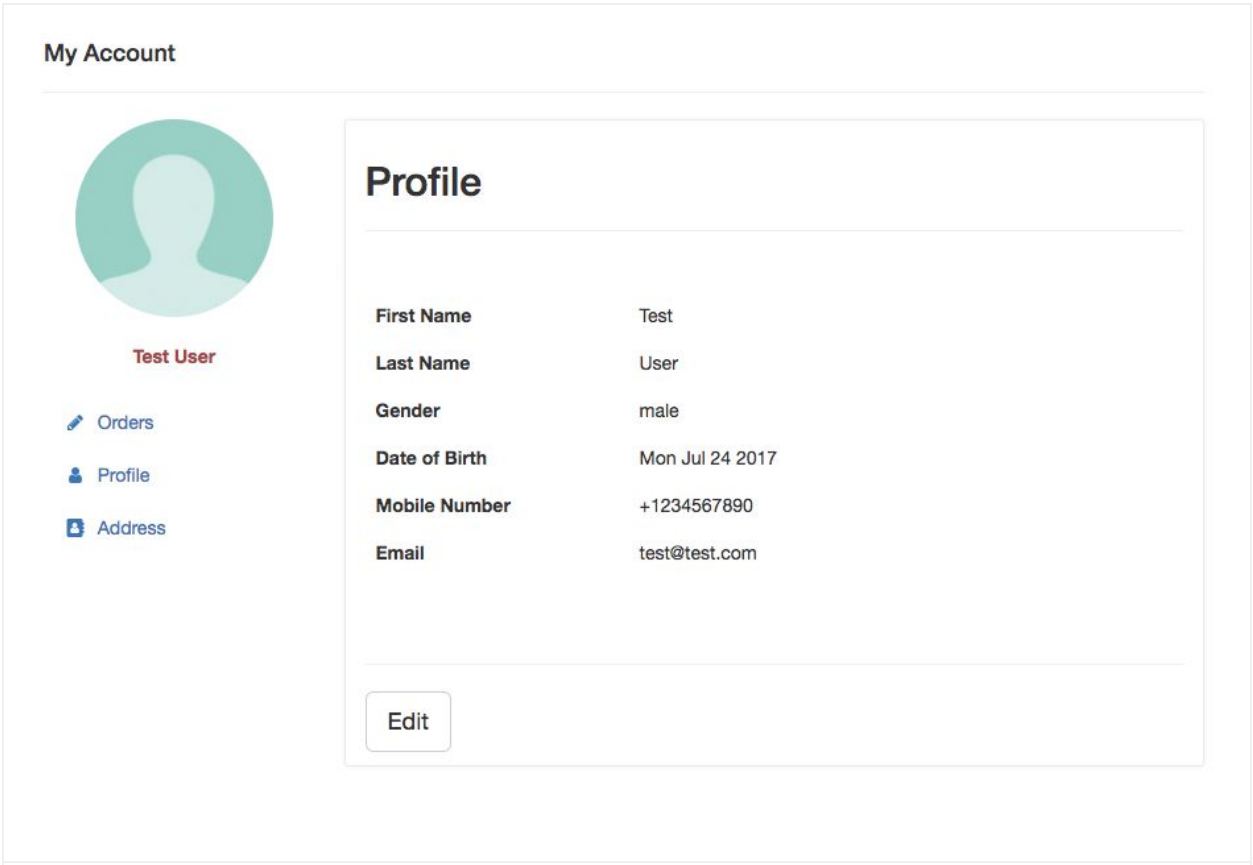

Fig: User Profile

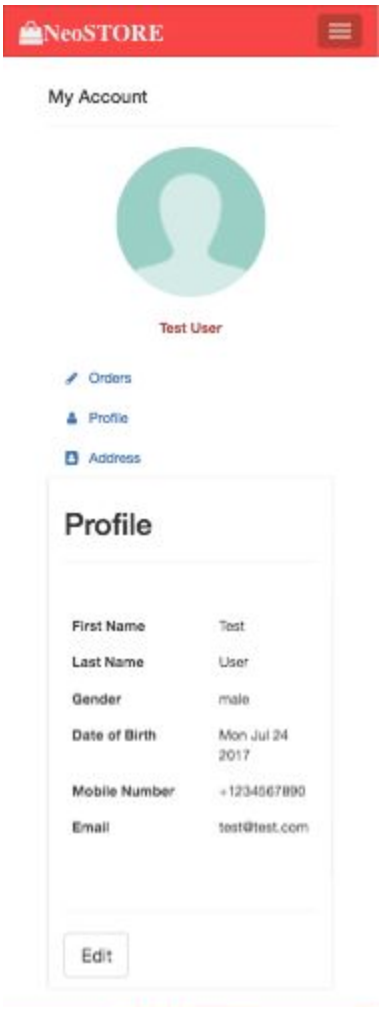

Fig: User Profile(Mobile)

- Addresses

  The getting address from the **current location** is also implemented when user adding or updating the address then user can populate the current into the fields/

  - Api to hit

    POST api/addresses/AddAddress For add address

    PATCH api/addresses/address_id For edit address

    GET api/addresses/getAddressbyUserId/user_id For get all addresses of user

    GET api/addresses/address_id For get single address

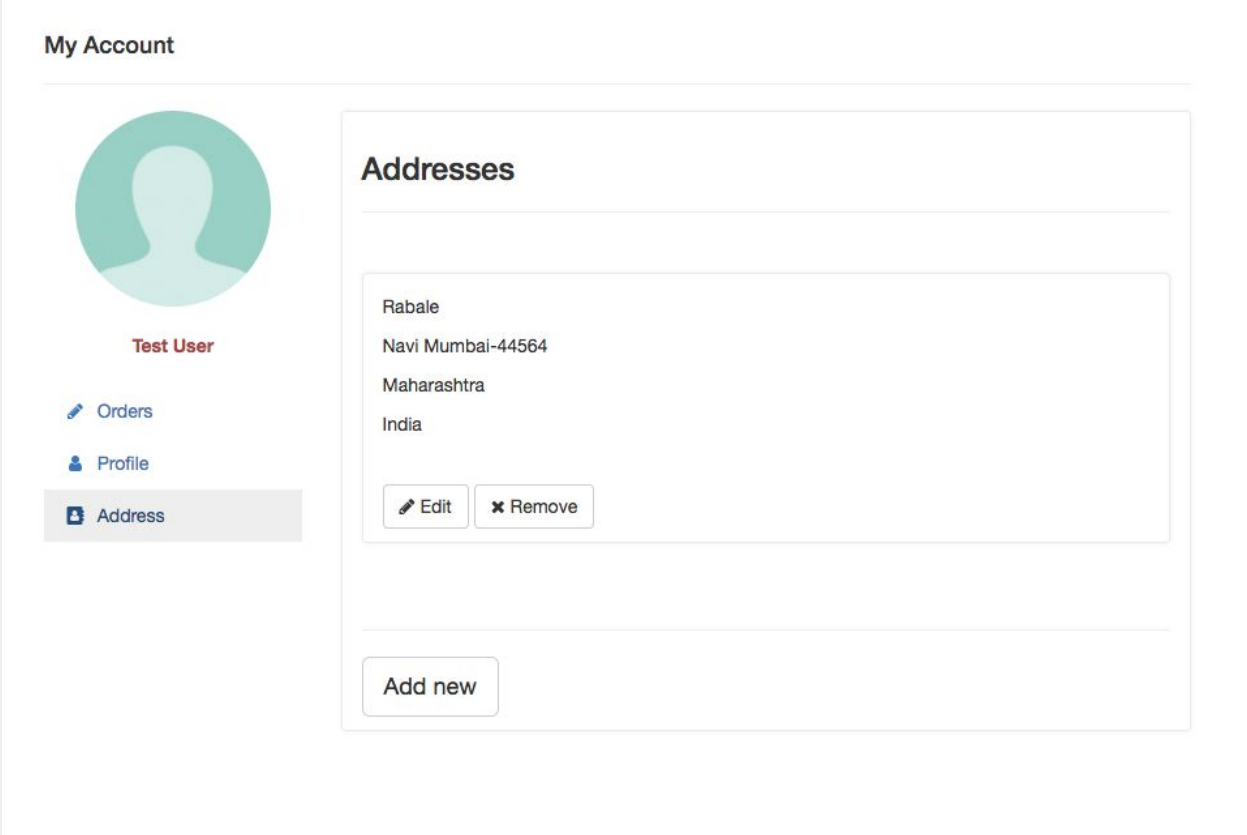

Fig: User Addresses

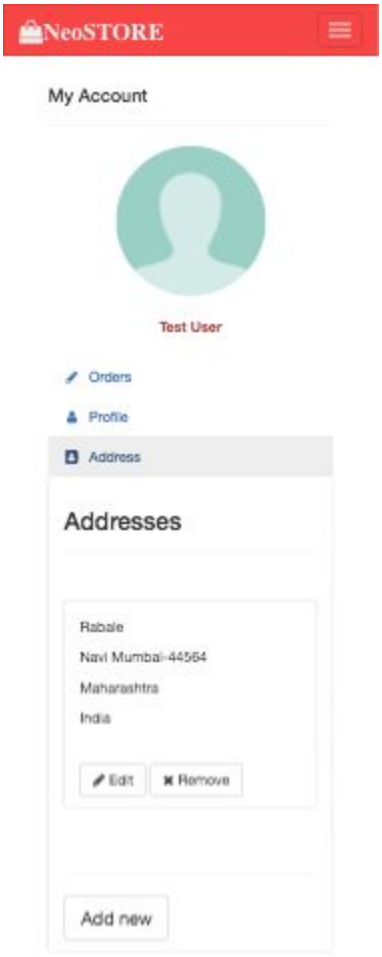

Fig: User Addresses(Mobile)

- Orders
  - Api to hit

    PATCH api/orders/allorderofuser For getting all orders of user

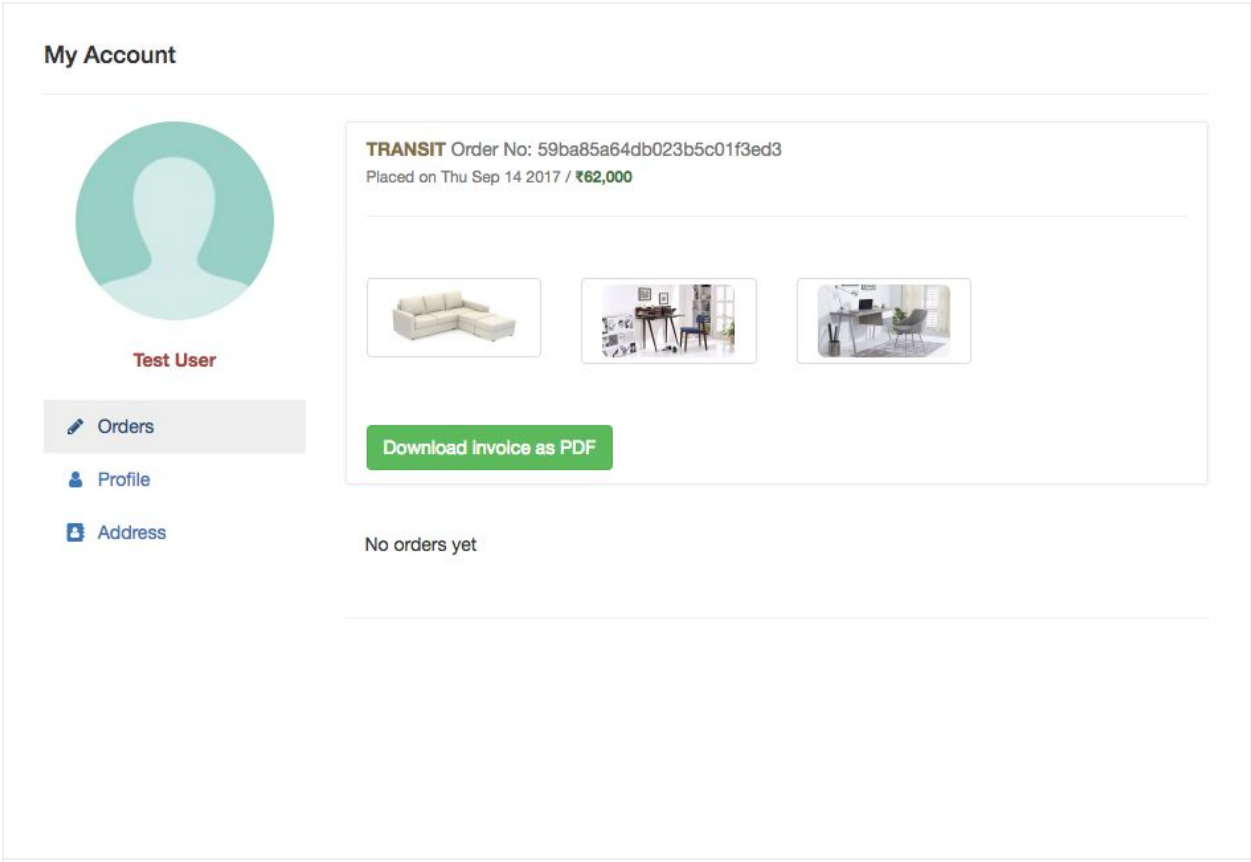

Fig: User Orders

X. Information pages

It contains the information pages of websites as following

- Terms & Conditions

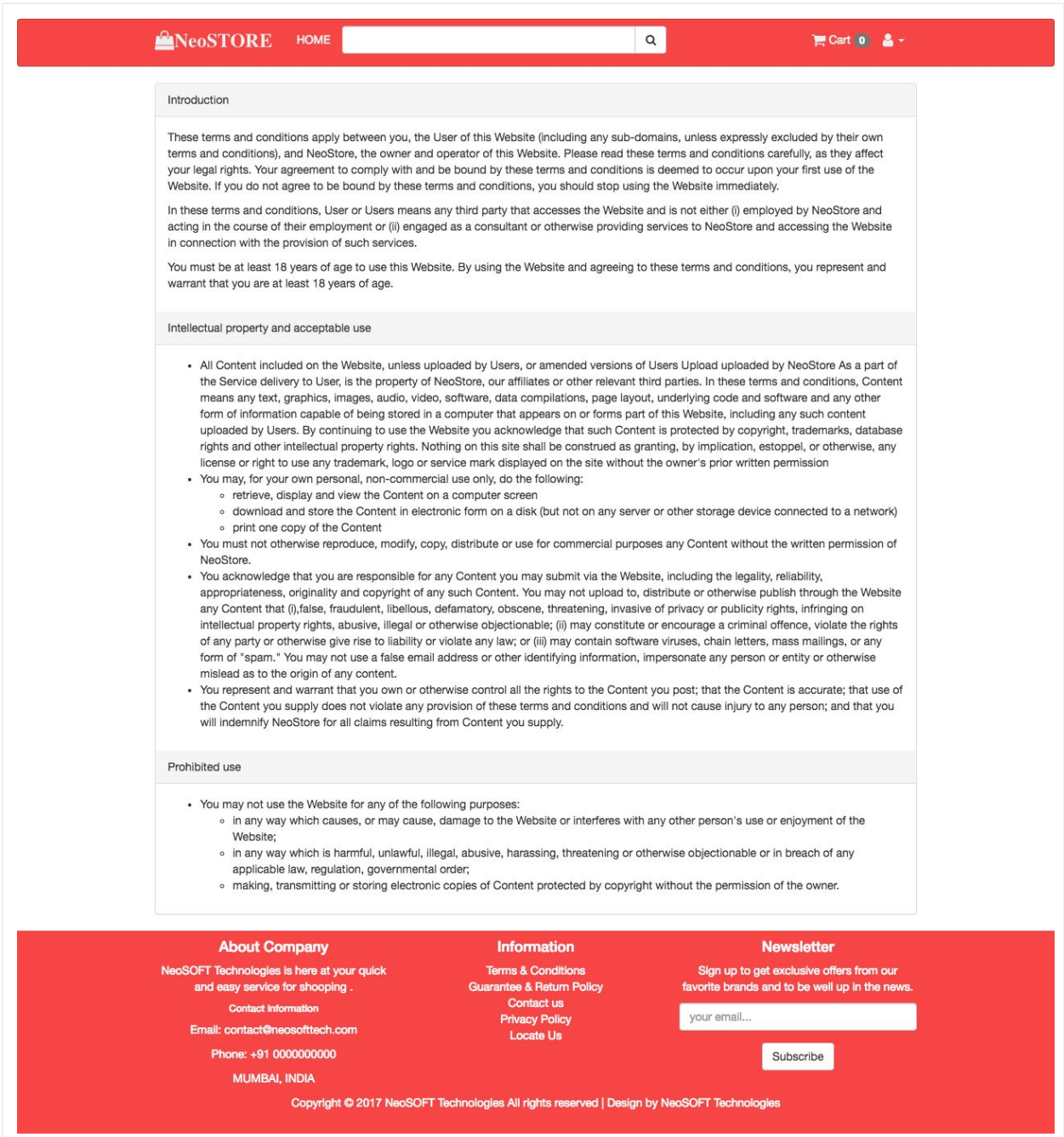

Fig: Terms & Conditions

- Guarantee & Return Policy

Fig: Guarantee & Return Policy

- Contact us

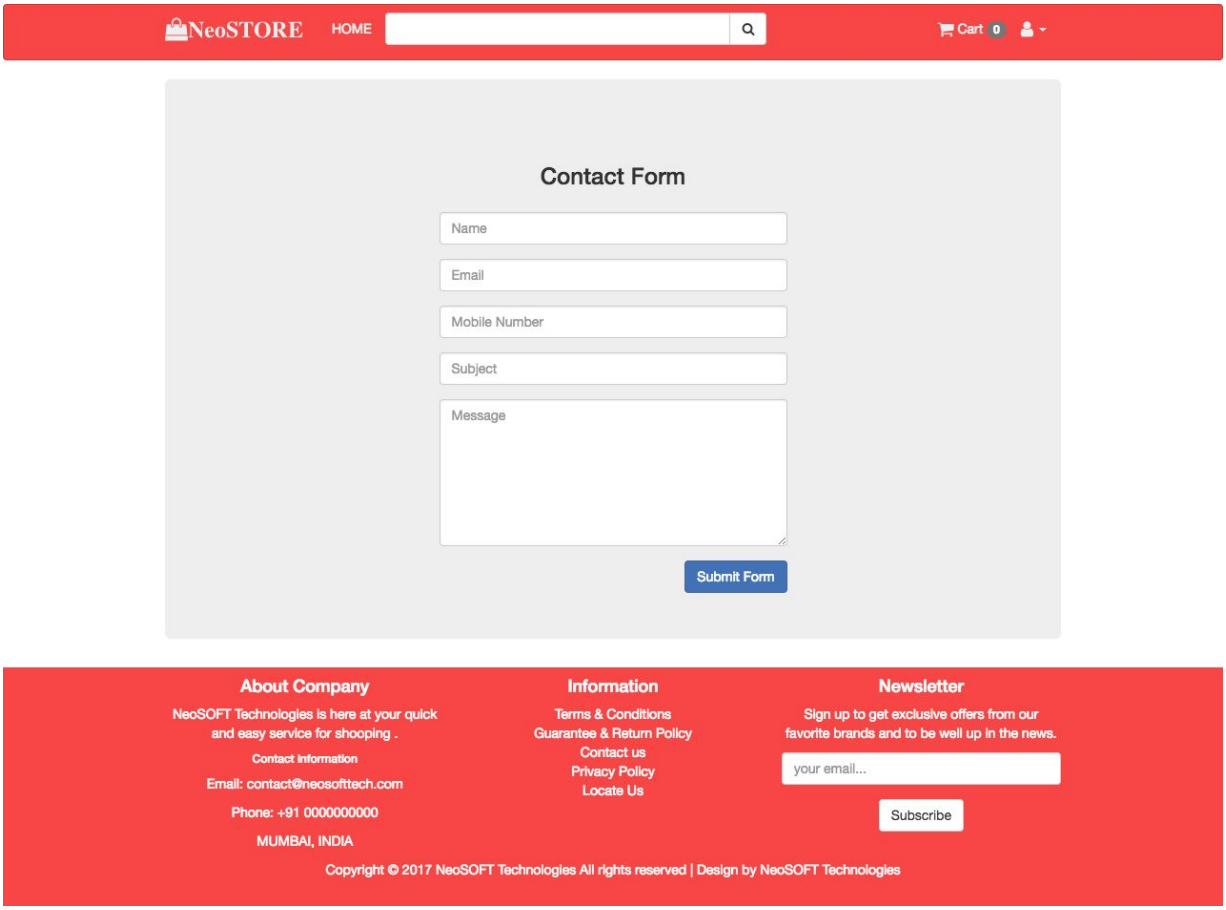

Fig: Contact us

- Privacy Policy

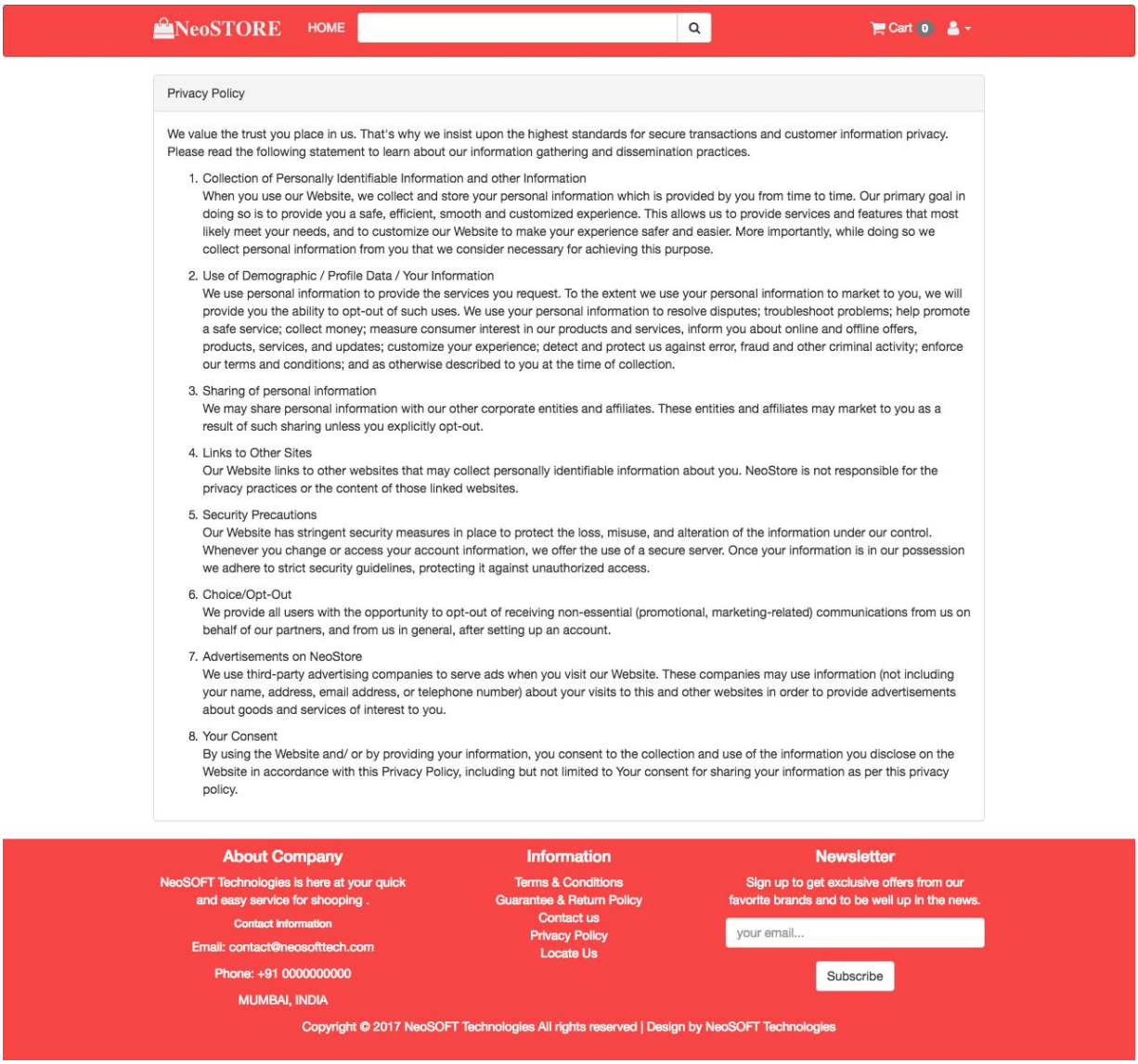

Fig: Privacy Policy

- Locate Us

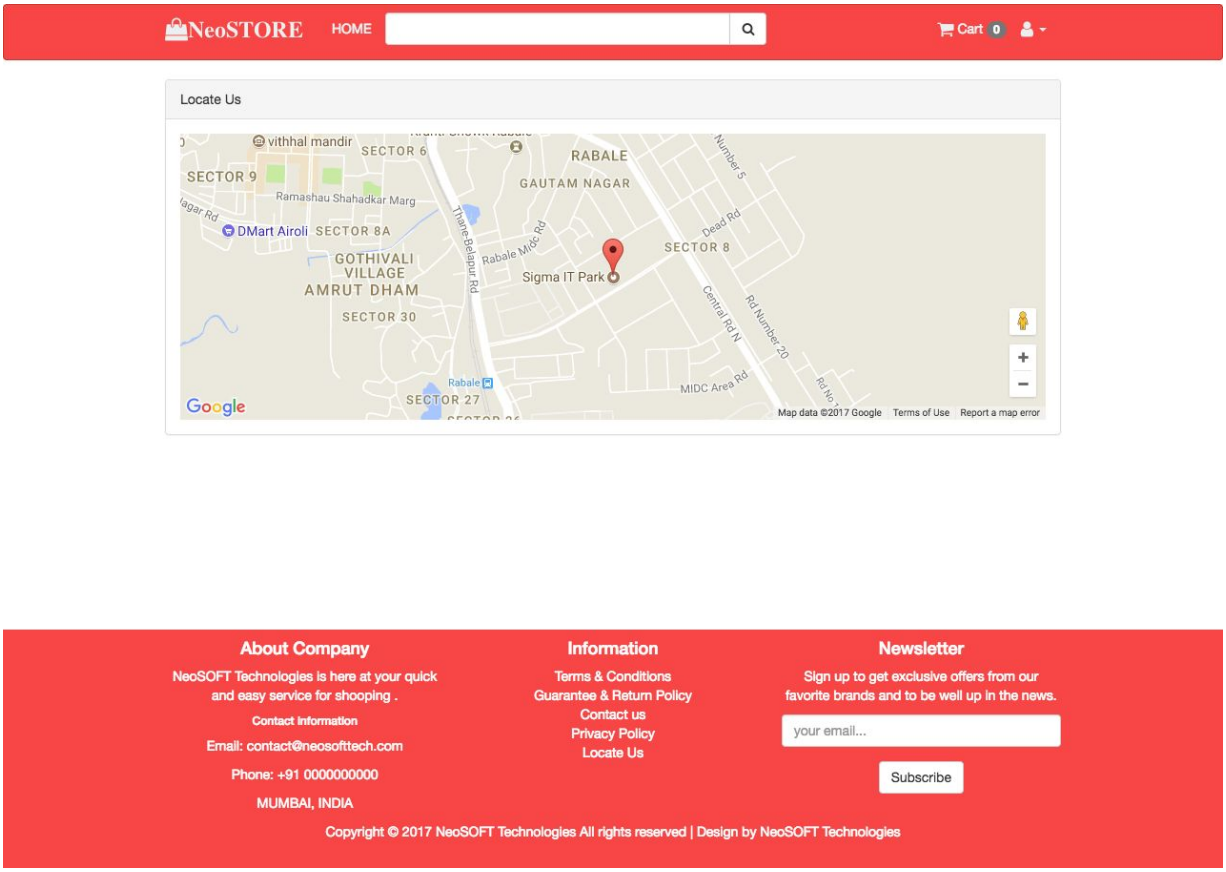

Fig: Locate Us

XI. Template

The zip of the website template is available here

XII. Packages used for Angular 2 Project

- ngx-bootstrap

  ngx-bootstrap contains all core (and not only) Bootstrap components powered by Angular. So you don't need to include original JS components, but we are using markup and css provided by Bootstrap. Its official documentation is here

- angular2-infinite-scroll

  Angular infinite scroll provides lots of functionality of scrolling like you can set any function listener on scroll up, scroll down, how much scroll etc.

  It is well explained in its docs on npm.

- angular-star-rating

  It is based on best practice UX/UI methods, accessibility in mind and an eye for details. In love with reactive forms, the component is easy to control over the keyboard.It is a perfect fit for all angular projects with STARS.

- angular2-social-login

  Simple client side social authentication for Angular2 application.

- ng2-sharebuttons

  Simple, lightweight, customizable share buttons with counts.

- angular2-image-zoom

  It provides the scroll zoom in or out effects on images.

- ng2-toastr

  One of the best package for displaying the toast messages in Angular 2.

- Jspdf

  Probably the best library to generate PDF files in client side. Very easy to understand and write codes using JsPDF.