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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

## Front end

The entire front is build with the [Angular 2](https://angular.io/). For CSS framework [Bootstrap](http://getbootstrap.com/) is used.

## Back end

The backend is in [Node.js](https://nodejs.org/en/) with [Loopback framework](https://loopback.io/) by using [MongoDB](https://www.mongodb.com/) as database.

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# Technical specifications

The components of NeoSTORE website are listed and explained below.

## Home page

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| Fig: Home Page |

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|  |
| 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.

## Header and Footer

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

### Header

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| --- |
|  |
| 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

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| --- |
|  |
| 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.

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|  |
| Fig: Footer (Mobile) |

## Login

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|  |
| 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.

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| --- |
|  |
| 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](https://www.npmjs.com/package/angular2-social-login)

### Api to hit

GET api/user\_accounts/login

## Register

The Register page has following features.

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| Fig: Register Page |

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| --- |
|  |
| 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](https://www.npmjs.com/package/angular2-social-login)

### Api to hit

POST api/user\_accounts

## 

## Product List

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

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| --- |
|  |
| 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

## Product view

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|  |
| Fig: Single Product Page |

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|  |
| 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.

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|  |
| Fig: Rating |

### Social Share

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

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|  |
| 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

## Cart

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| 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

## Payment

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|  |
| 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](https://stripe.com/)is used. Its provides lots of functionalities like easy management, testing and secure payments.

### Api to hit

POST api/orders/order For payment

## 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

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| Fig: User Profile |

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| Fig: User Profile(Mobile) |

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### 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

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|  |
| Fig: User Addresses |

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|  |
| Fig: User Addresses(Mobile) |

### Orders

#### Api to hit

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

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|  |
| Fig: User Orders |

## Information pages

It contains the information pages of websites as following

### Terms & Conditions

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|  |
| Fig: Terms & Conditions |

### Guarantee & Return Policy

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|  |
| Fig: Guarantee & Return Policy |

### Contact us

|  |
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|  |
| Fig: Contact us |

### Privacy Policy

|  |
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| Fig: Privacy Policy |

### Locate Us

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| Fig: Locate Us |

## Template

The zip of the website template is available [here](https://drive.google.com/open?id=0B3gkPQjjFtf_UnYxdExXcVU5b0k)

## Packages used for Angular 2 Project

* [ngx-bootstrap](https://www.npmjs.com/package/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](https://valor-software.com/ngx-bootstrap/#/)

* [angular2-infinite-scroll](https://www.npmjs.com/package/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](https://www.npmjs.com/package/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](https://www.npmjs.com/package/angular2-social-login)

Simple client side social authentication for Angular2 application.

* [ng2-sharebuttons](https://www.npmjs.com/package/ng2-sharebuttons)

Simple, lightweight, customizable share buttons with counts.

* [angular2-image-zoom](https://www.npmjs.com/package/angular2-image-zoom)

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

* [ng2-toastr](https://www.npmjs.com/package/ng2-toastr)

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

* [Jspdf](https://www.npmjs.com/package/jspdf)

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