UNIVERSITY OF CALCUTTA

A. K.Choudhury School of Information Technology(University of Calcutta)

MASTERS OF COMPUTER APPLICATION

Session :-2019-2022

ONLINE MEDICINE DELIVERY SYSTEM

GROUP MEMBERS

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Under the guidance of Mr. Debojyoti Majumdar Trainer, AngularJS Ardent Computech Pvt.Ltd.

CERTIFICATE FROM SUPERVISOR

This is to certify that Mr. Jiban Sarkar , Mr. Akash Patra , Ms. Ria Sao, Ms. Nabanita Roy have successfully completed the project titled "Online Medicine Delivery System" under my supervision during the period from July 2021 to September 2021 which is in partial fulfilment of requirements for the award of Masters of Computer Application (M.C.A.) degree and submitted to AKCSIT Department of Calcutta University(Technology Campus) , Kolkata.

Date:

Signature of The Supervisor

Acknowledgement

Success of any project depends largely on the encouragement and guidelines of many others. We take this sincere opportunity to express our gratitude to the people who have been instrumental in the successful completion of this project work.

Our heartfelt thanks to Dr. Amlan Chakraborty, Head of the Department of AKCSIT, University of Calcutta, for providing us the opportunity to develop the project at Ardent Computech Pvt.Ltd.

We would like to show our greatest appreciation to Mr. Debojyoti Majumdar, Project guide at Ardent, Kolkata. We always feel motivated and encouraged every time by his valuable advice and constant inspiration; without his encouragement and guidance this project would not have materialized.

Words are inadequate in offering our thanks to the other trainees, project assistants and other members at Ardent Computech Pvt. Ltd. for their encouragement and cooperation in carrying out this project work. The guidance and support received from all the members and who are contributing to this project, was vital for the success of this project.

Abstract

Average people spend a significant amount of income on medicine. A reliable and fast online medicine delivery system is not ubiquitous. Most people buy medicine from the local pharmacies. They need to go to medicine stores to buy the specific medicine prescribed by the specialized doctors. Sometimes all prescribed medicines are not available in local pharmacies therefore people need to go to other areas to buy the medicines. It is very time consuming and people need to spent money as well for this. People waste longer time on the road due to traffic jams. Here most of the pharmacies are closed at night time but sometimes in an emergency situation medicine is very essential. In case an online web based e-commerce medicine delivery system is needed very much. In addition, currently the whole world is suffering due to COVID-19 pandemic. Coronavirus is very contagious which we all know. In this pandemic time it is not risk free to go out to buy medicine from the pharmacies. Due to COVID-19 , medicine scarcity is also an important issue. In this situation, an online medicine delivery system can play an important role. By considering the above mentioned facts, a reliable and fast online solution is proposed . This project presents the development of a wed based online medicine delivery system. A reliable,fast safe and user-friendly online based e-commerce web application has been developed in this project. Medicine delivery system has also been include with this proposed system. It is a one-stop solution where people can find various including COVID-19 related medicine ,here people can also find other items in this online platform. They can save money and they do not need to go out in this pandemic situation to buy medicine. In this crucial situation , the online medicine delivery system is very helpful and it will act as a blessing for the people.

INDEX

1.INTRODUCTION

An online medicine ordering system is a web-based application that simulates the customers to put medicine orders through internet from their nearby medicine shops. This application is based on the MEAN stack platform.

1.1Relevance of Project:

Pharmacies can reach to their customers and sell their medicine more easily using this application. Moreover the customers also can their desired medicine just seating in home.

1.2Problem Definition:

Problems of manual medicine ordering process:

- Usually to purchase medicine from pharmacies a customer must visit the shop.
- Otherwise customer should have the contact number of the shop to get home delivery.
- Sometimes , the patient is very serious and at that situation go to shop and buy medicine is very time consuming.

1.3Project Objective:

The main objective of this project is:

- To develop an application which gives provision to the pharmacies owners to flourish their business by uploading menus at no cost and will invariably lead to higher customer retention and acquisition rates.
- Moreover the customer can get medicine from pharmacies without going there.

2.SYSTEM ANALYSIS

The act, process,or profession of studying an activity (such as procedure ,a business , or a physiological function) typically by mathematical means in order to define its goal or purposes and to discover operations and procedures for accomplishing them most efficiently.

2.1FEASIBILITY STUDY:

TECHNICAL FEASIBILITY: Since MEAN stack is a open source and free to all platform it is also economically feasible to develop a web application like" Online Medicine Ordering System" using it.

LEGAL FEASIBILITY: Since MEAN stack is a open source and free to all platform it is also legally feasible to develop a web application like "Online Medicine Delivery System"using it, because there is no copyright issue.

OPERATIONAL FEASIBILITY: Since applications developed in Angular are user interactive , users can handle this kind of applications easily.

SOCIAL FEASIBILITY: An "Online Medicine Ordering System " can be very much popular in the society.

2.2Existing System :

"Online Medicine Ordering System " has been designed to digitalize the following functions that are performed by the manual system:

- Usually to purchase medicine from pharmacies a customer must visit there pharmacies.
- Otherwise customer should have the contact number of the pharmacies to get home delivery.
- Small scale pharmacies can reach only to a certain number customers this way.

2.3PROPOSED SYSTEM :

- Online menus (original and searchable format)
- Provision of pharmacies owners to register themselves with their menu.
- Simple, fast and convenient ordering of medicine .

2.4*PROBLEMS AND SOLUTIONS:*

- Reduce time-consuming phone orders and eliminate illegible fax orders.
- No more busy phones or the requirement for extra phone lines.
- An edge over the competition at an affordable price.
- Broader customer reach across regions.
- Builds a customer database.
- Provides a channel for marketing and promotion lowering your advertising cost.
- Helps in improved services .
- Greater customer satisfaction!!!

3.CODING

The input to the coding phase is the design document. During the coding phase, different modules identified in the design document are coded according to the respective module specifications. The objective of the coding phase is to transform the design of a system, as given by its module specification, into a high-level language code and to unit test this code. Good software development organizations require their programmers to adhere to some well-defined and standard style of coding called coding standards.

4.Features of Language:

MEAN Stack mainly contains languages like:

JavaScript:

- JavaScript is a object-based scriptinglanguage.
- Giving the user more control over thebrowser.
- It Handling dates and time.
- It Detecting the user's browser and OS,
- It is light weighted.
- JavaScript is a scripting language and it is not java.
- JavaScript is interpreter based scripting language.
- JavaScript is case sensitive.
- JavaScript is object based language as it provides predefined objects.
- Every statement in javascript must be terminated with semicolon (;).
- Most of the javascript control statements syntax is same as syntax of control statements in C language.
- An important part of JavaScript is the ability to create new functionswithin scripts. Declare a function in JavaScript using **function** keyword.

TypeScript:

- **TypeScript supports JavaScript libraries:** The developers can use existing JavaScript code with the TypeScript. It can use all of the JavaScript frameworks, tools, and other libraries.
- **JavaScript is TypeScript:** It means the code written in JavaScript with valid .js extension can be converted to TypeScript by changing the extension from .js to .ts and compiled with other TypeScript files.
- **TypeScript is portable:** TypeScript is portable because it can be run on any browsers, devices or any operating systems. It can be run in any environment where JavaScript runs on. It is not specific to any virtual-machine for execution.
- **DOM Manipulation:** TypeScript can be used to manipulate the DOM for adding or removing elements similar as of JavaScript.
- **TypeScript is just a JavaScript:** TypeScript code is not understandable by any browsers directly. TypeScript code starts with JavaScript and ends with JavaScript. Hence, we only need to know JavaScript to use it in TypeScript. The code iswritten

in TypeScript is compiled and converted into its JavaScript equivalent for the execution. The above process is known as Trans-piled. With the help of JavaScript code, browsers are able to read the code and display the output.

JSON:

- JSON stands for JavaScript Object Notation.
- The format was specified by Douglas Crockford.
- It was designed for human-readable data interchange.
- It has been extended from the JavaScript scripting language.
- The filename extension is **.json**.
- JSON Internet Media type is **application/json**.
- The Uniform Type Identifier is public.json**.**

5.CODES

app_routing.module.ts

```
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { AboutusComponent } from './component/aboutus/aboutus.component';
import { CartComponent } from './component/cart/cart.component';
import { ContactComponent } from './component/contact/contact.component';
import { ProductsComponent } from './component/products/products.component';
import { RegisterComponent } from './component/register/register.component';

const routes: Routes = [
  {path:'',component:ProductsComponent},
 { path:'contact',component:ContactComponent},
 {path:'aboutus',component:AboutusComponent},
 {path:'products',component:ProductsComponent},
 {path:'cart',component:CartComponent},
 {path:'register',component:RegisterComponent}
];

@NgModule({
  imports: [RouterModule.forRoot(routes)],
  exports: [RouterModule]
})
export class AppRoutingModule { }
```

app.component.spec.ts

```
import { TestBed } from '@angular/core/testing';
import { RouterTestingModule } from '@angular/router/testing';
import { AppComponent } from './app.component';

describe('AppComponent', () => {
  beforeEach(async () => {
    await TestBed.configureTestingModule({
      imports: [
        RouterTestingModule
      ],
      declarations: [
        AppComponent
      ],
    }).compileComponents();
  });

  it('should create the app', () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app).toBeTruthy();
  });

  it(`should have as title 'medicine-delivary'`, () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app.title).toEqual('medicine-delivary');
  });
```

```
  it('should render title', () => {
    const fixture = TestBed.createComponent(AppComponent);
    fixture.detectChanges();
    const compiled = fixture.nativeElement;
    expect(compiled.querySelector('.content span').textContent).toContain('medicine-delivary app is running!');
  });
);
```

app.component.ts

```
import { Component } from '@angular/core';
import MedicineData from './_files/medicine.json';
@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
)
export class AppComponent {
  title = 'medicine-delivary';
  public medicine:{id:number,Type:string,name:string,Image:string,Dose:string,Dose_type:string,Brand:string, packing_Type:st
ng,Price:string }[]=MedicineData;
}
```

app.module.ts

```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import {MatToolbarModule} from '@angular/material/toolbar';
import{MatButtonModule}from '@angular/material/button';
import {MatIconModule} from '@angular/material/icon';
import {MatCardModule} from '@angular/material/card';
import {MatTabsModule} from '@angular/material/tabs';

import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { BrowserAnimationsModule } from '@angular/platform-browser/animations';
import { HeaderComponent } from './component/header/header.component';
import { FooterComponent } from './component/footer/footer.component';
import { ProductsComponent } from './component/products/products.component';
import { ContactComponent } from './component/contact/contact.component';
import { NavbarComponent } from './component/navbar/navbar.component';
import { AboutusComponent } from './component/aboutus/aboutus.component';
import { HomeComponent } from './component/home/home.component';
import { CartComponent } from './component/cart/cart.component';
import { HttpClientModule } from '@angular/common/http';
import { FormsModule, ReactiveFormsModule } from '@angular/forms';
import { RegisterComponent } from './component/register/register.component';
import {MatInputModule} from '@angular/material/input'
@NgModule({
  declarations: [
    AppComponent,
    HeaderComponent,
    FooterComponent,
    ProductsComponent,
    ContactComponent,
```

```
    NavbarComponent,
    AboutusComponent,
    HomeComponent,
    CartComponent,
    RegisterComponent,
  ],
  imports: [
    BrowserModule,
    AppRoutingModule,
    BrowserAnimationsModule,
    MatToolbarModule,
    MatButtonModule,
    MatIconModule,
    MatCardModule,
    HttpClientModule,
    FormsModule,
    ReactiveFormsModule,
    MatTabsModule,
    MatInputModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

medicine.json

```
[
  {
      "id": 1,
      "Type": "Allopathic",
      "Drug_Name": "Aspirin",
      "Dose": "150 mg",
      "Form": "Tablet",
      "Brand": "Ecosprin",
      "packing_Type": "Strips",
      "Price":"8.79/Strips"
  },

  {
      "id": 2,
      "Type": "Allopathic",
      "Drug_Name": "Flupirtine",
      "Dose": "100 mg",
      "Form": "Capsule",
      "Brand": "Eririp",
      "packing_Type": "Strips",
      "Price": "100/Strip"
  },

  {
      "id": 3,
      "Type": "Allopathic",
      "Drug_Name": "Combiflam",
      "Dose": "400 mg",
      "Form": "Tablet",
      "Brand": "Sanofi",
      "packing_Type": "Strips",
      "Price": "38.10/Strip"
  },
```

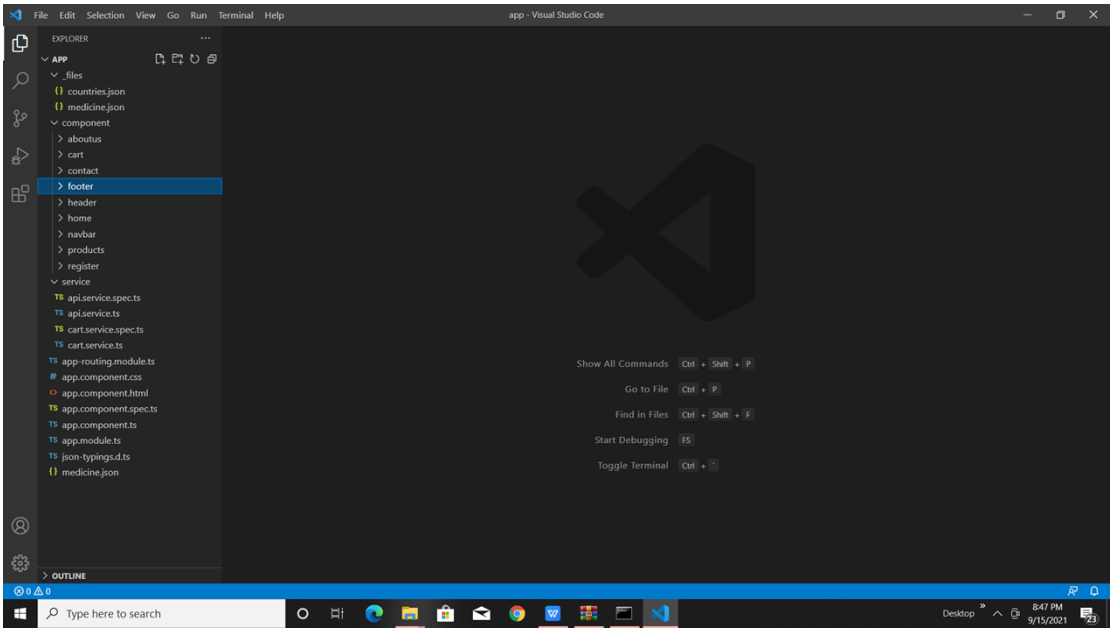
```
{
    "id": 4,
    "Type": "Allopathic",
    "Drug_Name": "Zerodol-SP",
    "Dose": "100 mg/15 mg/325 mg",
    "Form": "Tablet",
    "Brand": "IPCA",
    "packing_Type": "Strips",
    "Price": "97.90/Strip"
},

{
    "id": 5,
    "Type": "Allopathic",
    "Drug_Name": "Brufamol",
    "Dose": "325 mg/400 mg",
    "Form": "Tablet",
    "Brand": "Menarini",
    "packing_Type": "Strips",
    "Price": "9/Strip"
},

{
    "id": 6,
    "Type": "Allopathic",
    "Drug_Name": "Forminal SR",
    "Dose": "1000 mg",
    "Form": "Tablet",
    "Brand": "Alembic Pharma",
    "packing_Type": "Strips",
    "Price": "19.40/Strip"
},

{
    "id": 7,
    "Type": "Allopathic",
    "Drug_Name": "Riomet Od",
    "Dose": "1000 mg",
    "Form": "Tablet",
    "Brand": "Sun Pharma",
    "packing_Type": "Strips",
    "Price":"66.00/Strips"
},

{
    "id": 8,
    "Type": "Allopathic",
    "Drug_Name": "Metsmall",
    "Dose": "1000 mg",
    "Form": "Tablet",
    "Brand": "Dr. Reddy",
    "packing_Type": "Strips",
    "Price": "64.50/Strip"
},

{
    "id": 9,
    "Type": "Allopathic",
    "Drug_Name": "Cetapin XR",
    "Dose": "1000 mg",
```

```
    "Form": "Tablet",
    "Brand": "Sanofi Aventis",
    "packing_Type": "Strips",
    "Price": "38.10/Strip"
},

{
    "id": 10,
    "Type": "Allopathic",
    "Drug_Name": "Xmet SR",
    "Dose": "1000 mg",
    "Form": "Tablet",
    "Brand": "Glemark",
    "packing_Type": "Strips",
    "Price": "55.54/Strip"
},

{
    "id": 11,
    "Type": "Allopathic",
    "Drug_Name": "Dibeta SR",
    "Dose": "1 g",
    "Form": "Tablet",
    "Brand": "Torrent Pharma",
    "packing_Type": "Strips",
    "Price": "38.26/Strip"
},

{
    "id": 12,
    "Type": "Allopathic",
    "Drug_Name": "Paracetamol",
    "Dose": "650 mg",
    "Form": "Tablet",
    "Brand": "Ratiopharm",
    "packing_Type": "Strips",
    "Price": "27.00/Strip"
},

{
    "id": 13,
    "Type": "Allopathic",
    "Drug_Name": "Crocin Advance",
    "Dose": "500 mg",
    "Form": "Tablet",
    "Brand": "GSK",
    "packing_Type": "Strips",
    "Price":"13.00/Strips"
},

{
    "id": 14,
    "Type": "Allopathic",
    "Drug_Name": "Pirox",
    "Dose": "20 mg",
    "Form": "Capsule",
    "Brand": "cipla",
    "packing_Type": "Strips",
    "Price": "55.00/Strip"
},
```

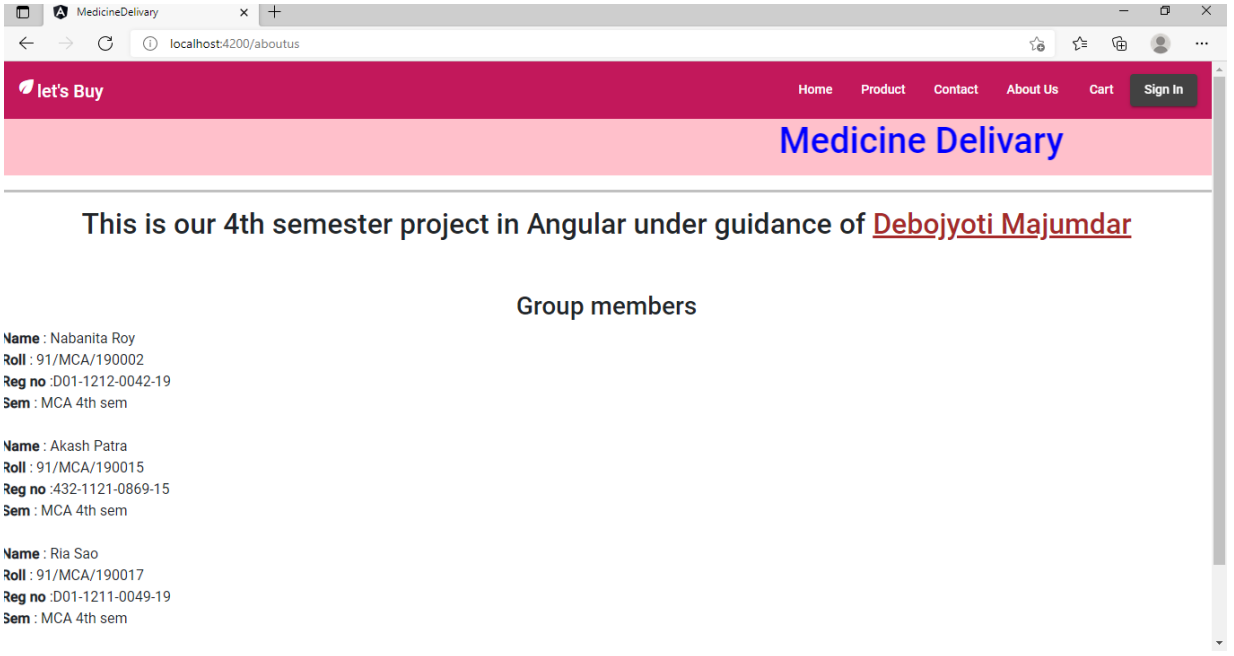
```
{
    "id": 15,
    "Type": "Allopathic",
    "Drug_Name": "Dolonex",
    "Dose": "20 mg",
    "Form": "Tablet",
    "Brand": "Pfizer",
    "packing_Type": "Strips",
    "Price": "58.51/Strip"
},

{
    "id": 16,
    "Type": "Allopathic",
    "Drug_Name": "Crocin 120",
    "Dose": "120/5ml",
    "Form": "Syrup",
    "Brand": "GSK",
    "packing_Type": "Bottle",
    "Price": "35.61/bottle"
},

{
    "id": 17,
    "Type": "Allopathic",
    "Drug_Name": "Crocin 240",
    "Dose":"240/5ml",
    "Form": "Syrup",
    "Brand": "GSK",
    "packing_Type": "Bottle",
    "Price": "51.56/bottle"
},

{
    "id": 18,
    "Type": "Allopathic",
    "Drug_Name": "Calpol 120mg Suspension",
    "Dose": "120mg/5ml",
    "Form": "Syrup",
    "Brand": "Calpol",
    "packing_Type": "Bottle",
    "Price": "35.54/bottle"
},

{
    "id": 19,
    "Type": "Allopathic",
    "Drug_Name": "SolvinCold",
    "Dose": "130mg/5ml",
    "Form": "Syrup",
    "Brand": "IPCA",
    "packing_Type": "Bottle",
    "Price":"63.50/Strips"
},

{
    "id": 20,
    "Type": "Allopathic",
    "Drug_Name": "Cheston Cold",
    "Dose": "125mg/5ml",
    "Form": "Syrup",
```

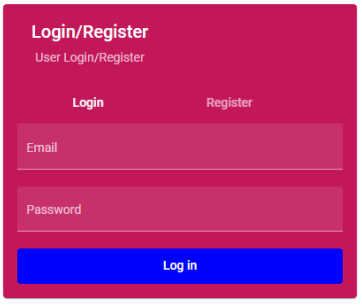
```
    "Brand": "Cipla",
    "packing_Type": "Bottle",
    "Price": "44.00/Bottle"
},

{
    "id": 21,
    "Type": "Allopathic",
    "Drug_Name": "Thyrowel",
    "Dose": "405 mg",
    "Form": "Capsule",
    "Brand": "abbott",
    "packing_Type": "Strips",
    "Price": "138.95/Strip"
},

{
    "id": 22,
    "Type": "Herbal",
    "Drug_Name": "Thuro Thanks",
    "Dose": "381 mg",
    "Form": "Tablet",
    "Brand": "Cureveda",
    "packing_Type": "Bottle",
    "Price": "1494.00/Bottle"
},

{
    "id": 23,
    "Type": "Allopathic",
    "Drug_Name": "Reguthyro",
    "Dose": "200 g",
    "Form": "Capsule",
    "Brand": "Bio Resurge Life",
    "packing_Type": "Strips",
    "Price": "80.00/Strip"
},

{
    "id": 24,
    "Type": "Allopathic",
    "Drug_Name": "Thyropace",
    "Dose": "1 g",
    "Form": "Capsule",
    "Brand": "Meyer",
    "packing_Type": "Strips",
    "Price": "167.00/Strip"
}
```

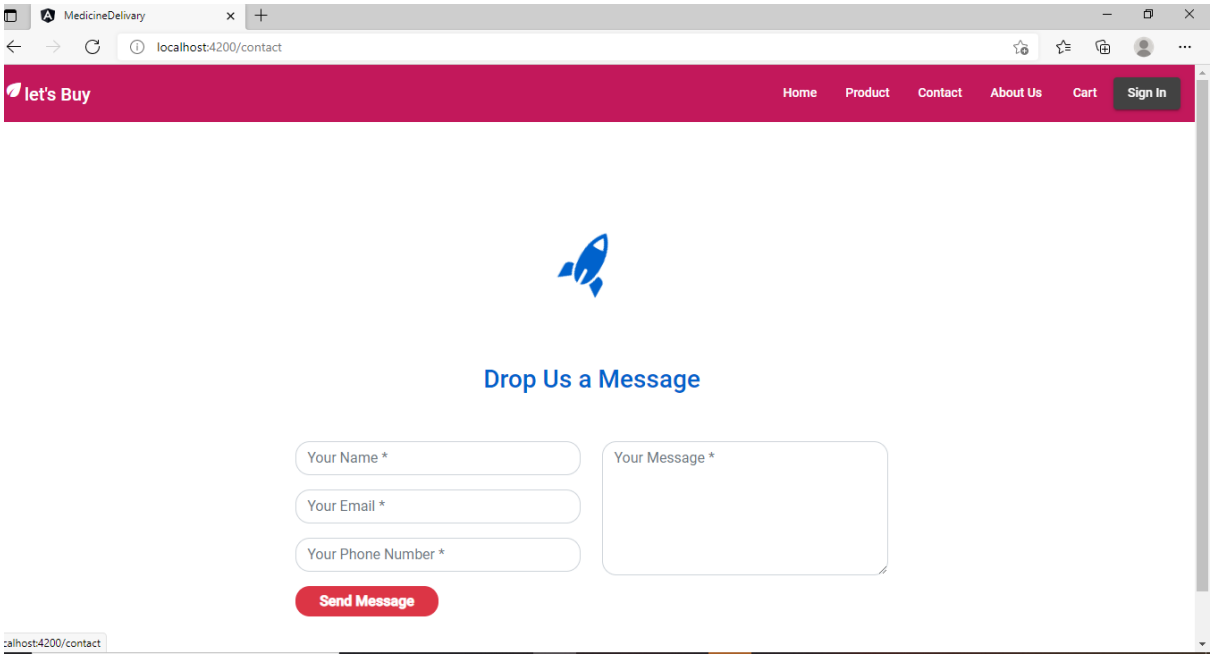
6.File Structure

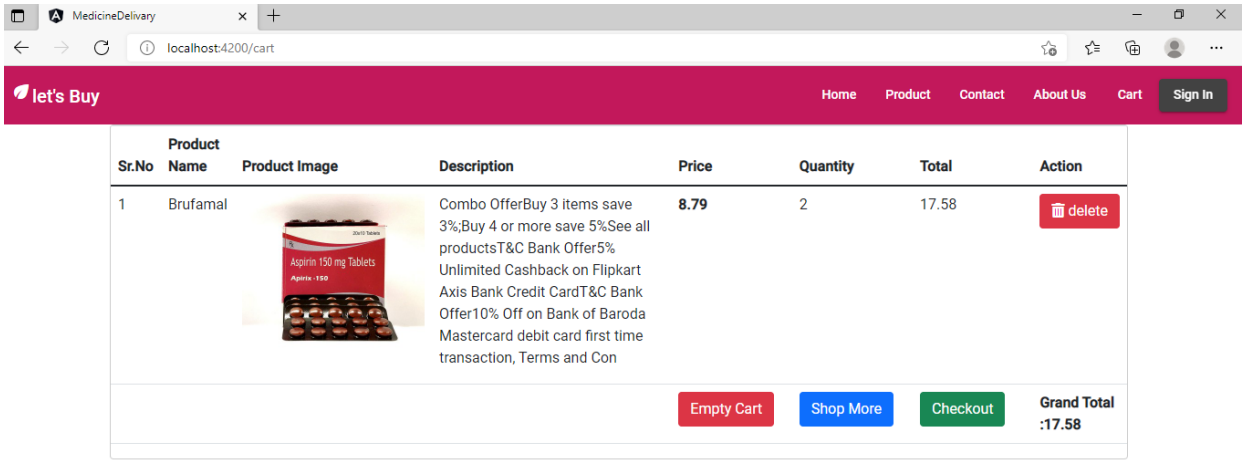


7.Website Design






MedicineDelivary
localhost:4200/contact
let's Buy
Home
Product
Contact
About Us
Cart
Sign In
Drop Us a Message
Your Name *
Your Email *
Your Phone Number *
Your Message *
Send Message


MedicineDelivary
localhost:4200/cart
let's Buy
Home
Product
Contact
About Us
Cart
Sign In
Sr.No
Product Name
Product Image
Description
Price
Quantity
Total
Action
1
Brufamal
Aspirin 150 mg Tablets
Combo OfferBuy 3 items save 3%;Buy 4 or more save 5%See all productsT&C Bank Offer5% Unlimited Cashback on Flipkart Axis Bank Credit CardT&C Bank Offer10% Off on Bank of Baroda Mastercard debit card first time transaction, Terms and Con
8.79
2
17.58
delete
Empty Cart
Shop More
Checkout
Grand Total :17.58

8.Contribution of work

TASKS	PERFORMED BY
Documentation,Angular Research	Nabanita Roy
HTML,modules design	Akash Patra
CSS,Structure idea ,pics	Ria Sao
CSS,HTML,Angular Research	Jiban Sarkar

9.Conclusion

Technology makes life easier. This application is made to save some important time in daily life. But we should not forget about visiting our college campus for better interaction ,which is also important for social life. Because technology is not for making barriers in social life, it is for making a better life.

10.References

1. https://www.tutorialspoint.com
2. https://www.nodejs.org
3. https://www.angular.io
4. https://www.youtube.com