HTML5 and CSS3
- Case Study

Grocery Store Page

127.0.0.1:5500/GroceryStore/index.html#

Grocery Shoppy

Shop Locator | Track Order | 001 234 5678 | Sign In | Sign Up

How can we help you today?

All Categories

Home   About Us   Kitchen ▾   Household ▾   FAQ   Pages ▾   Contact

Our Top Products

Search Here

Product Name

Price Range

$541 - $1000

Nuts

New   New   New
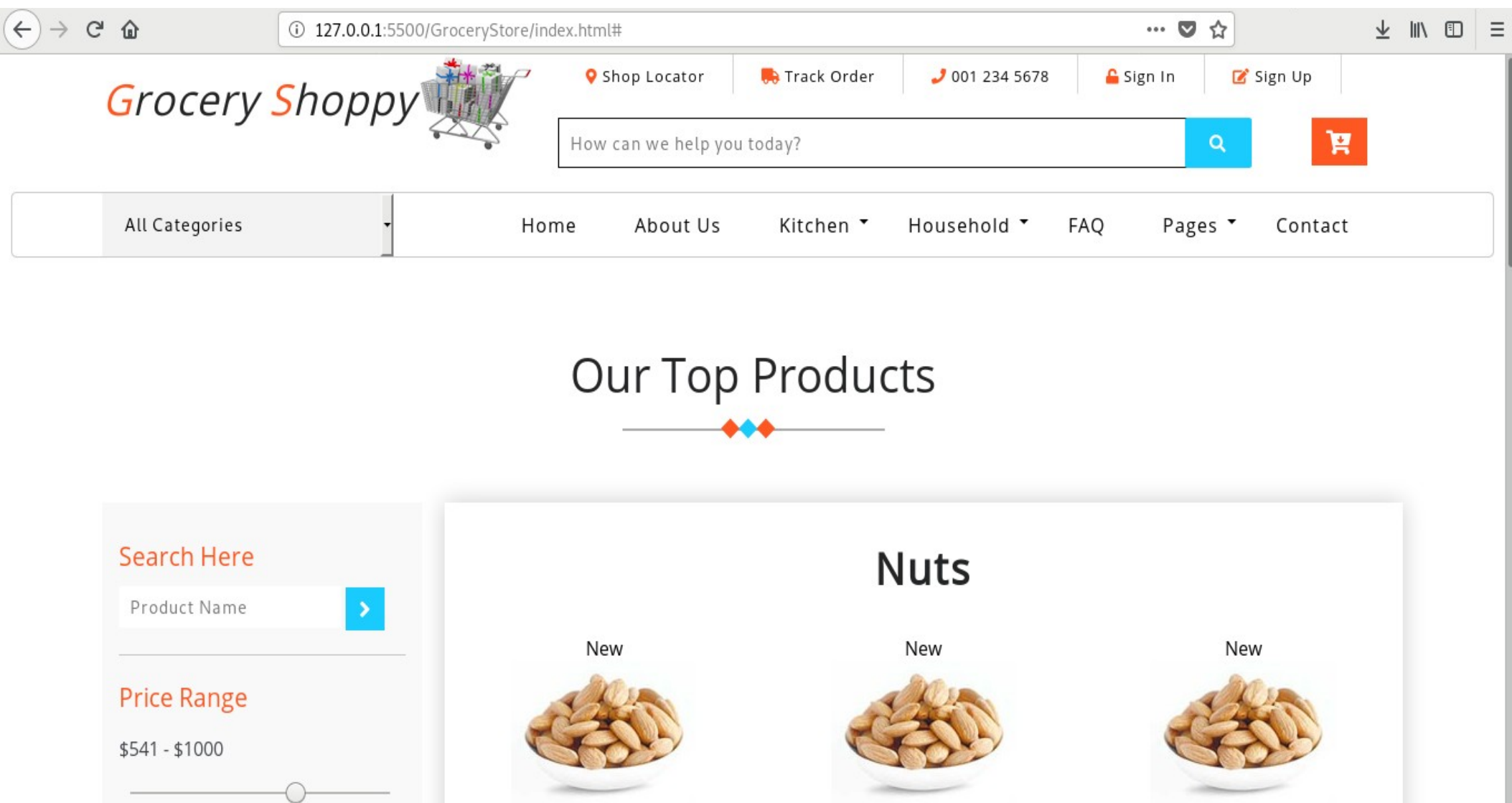
Identification of Page Sections

- Page is divided in following main parts
  - Header Section
  - Navigation Bar
  - Main Contents
  - Footer Section
- Header section is divided further in different sections namely logo, search box, title, top bar, user section etc.
- Navigation bar may contain a drop down menu, a three/ four fold sub-menu panels etc.
- Main content section may be divided in two or three sections namely left column, right column etc.
- A footer section may contain important links, contact information, copyright information etc.

Identification of Page Sections

Header

Logo

Top Bar – user section

Search Bar

Grocery Shoppy

📍 Shop Locator | 🚚 Track Order | 📞 001 234 5678 | 🔒 Sign In | ✏️ Sign Up

How can we help you today?   🔍   🛒

All Categories ▾   Home   About Us   Kitchen ▾   Household ▾   FAQ   Pages ▾   Contact

Main content

Navigation Bar

Left Side Column

Our Top Products

Right Side Column

Nuts

Search Here

Product Name   ❯

Price Range
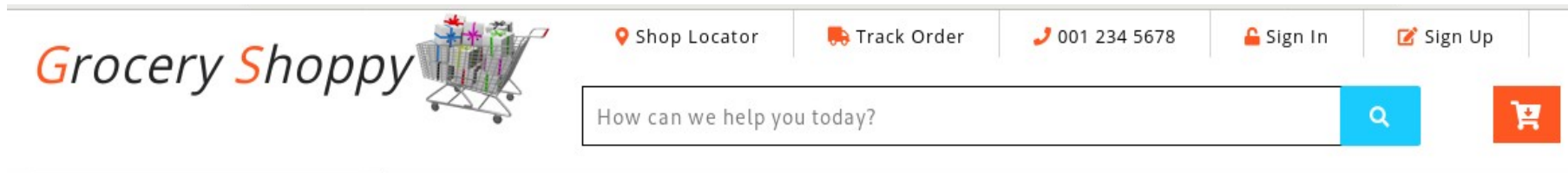
$541 - $1000

New   New   New

Header Section

1. The header is in a row

2. This row is further divided into columns – left column and right column

3. Left column contains a row which is further divided in two columns for Name "Grocery Shoppy" and logo

4. Right column contains "user section" in one row and search bar with cart icon in another row

5. The search bar with cart icon can be kept in a row with two columns for the search bar and cart icon separately

HTML coding for 'Header Section slide' Point No. 1

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Document</title>
</head>
<body>

</body>
</html>
```

HTML coding for 'Header Section slide' Point No. 2

```
<body>

   <div id="container">

      <div id="header">

         <div class="row">
```

```
            <div class="col">
                              For Logo and title

            </div>
```

```
            <div class="col">

                        For user menu and search bar
            </div>
```

```
         </div>

      </div>

   </div>

</body>
```

HTML coding for 'Header Section slide' Point No. 3

- In body tag, keeping all the tags in 'div' with id 'container tag is standard

- Likewise keep all tags to design header in a 'div' tag with id 'header'

- Make row and columns for title 'Grocery Shoppy' and logo

```
<div class="row">
    <div class="col">
        <h1>Grocery Shoppy</h1>
    </div>
    <div class="col">
        <img src="assets/images/logo2.png"
                                alt="">
    </div>
</div>
```

Grocery Shoppy

HTML coding for 'Header Section slide' Point No. 3 (contd.)

- Logo should be hyper-linked to the home page

- Separate title 'Grocery Shoppy' and further 'G' and 'S' to apply font style and color

```
<a href="#">
    <div class="row">
        <div class="col">
            <h1>
                <span>G</span>rocery  <span>S</span>hoppy
            </h1>
        </div>
        <div class="col">
            <img src="assets/images/logo2.png" alt="">
        </div>
    </div>
</a>
```

Grocery Shoppy

HTML coding for 'Header Section slide' Point No. 4

- A list is required for user options in one row and search bar along with cart icon in another row

- Each user options also has one icon which can be included with 'font-awesome'

```
<div class="col">
    <div class="row">
        <ul>
            <li><a href="#"><i class="fas fa-map-marker-alt"></i> Shop Locator</a></li>
            <li><a href="#"><i class="fas fa-truck"></i> Track Order</a></li>
            <li><a href="#"><i class="fas fa-phone"></i> 001 234 5678</a></li>
            <li><a href="#"><i class="fas fa-unlock"></i> Sign In</a></li>
            <li><a href="#"><i class="fas fa-edit"></i> Sign Up</a></li>
        </ul>
    </div>
    <div class="row">
        <div class="col">


        </div>
        <div class="col">


        </div>
    </div>
</div>
```

Grocery Shoppy

- Shop Locator
- Track Order
- 001 234 5678
- Sign In
- Sign Up

HTML coding for 'Header Section slide' Point No. 5

- The lower row contains an input tag to make a search box and two icons for magnifier (search button) and cart

```
<div class="col">
        <div class="row">
          <div class="col">
            <form action="#">
              <input type="text" placeholder="How can we help you today?">
              <button type="submit">
                 <i class="fas fa-search"></i>
              </button>
            </form>

          </div>
          <div class="col">
            <button class="btn">
              <i class="fas fa-cart-arrow-down"></i>
            </button>
          </div>
        </div>
      </div>
```

Grocery Shoppy

- Shop Locator
- Track Order
- 001 234 5678
- Sign In
- Sign Up

How can we help you today?

CSS coding for header

- Link CSS and Write the standard classes in CSS file stored in stylesheet folder of assets
  - Add stylesheet link for 'fontawesome.com' icons

```css
body {
    margin: 0px;
    font-family: 'Open Sans',
  sans-serif;
}
```

```css
ul {
    margin: 0px;
    padding: 0px;
    list-style: none;
}
```

```css
a {
    text-decoration: none;
}
```

```css
h1, h2, h3, h4, h5,h6 {
    margin-top: 0px;
    color: #232526;
}
```

```css
.left {
    float: left;
}
```

```css
.right {
    float: right;
}
```

Title and logo

- Letters 'G' and 'S' are in red color, make a class in span tag 'title_red_letter'

- Link font type from google font stylesheet

```
<link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">
```

```
<h1> <span class="title_red_letter">G</span>rocery <span class="title_red_letter">S</span>hoppy </h1>
```
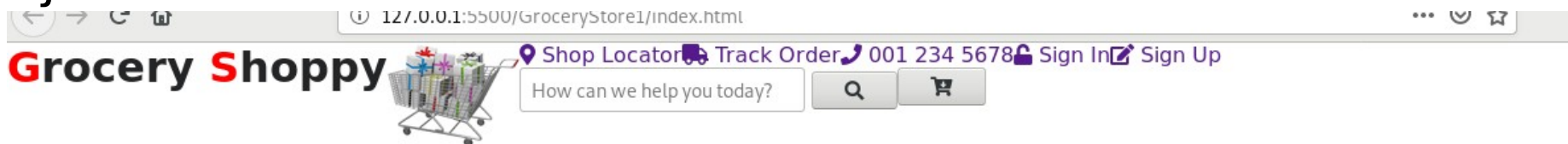
In CSS file, specify the color 'red' for this class

```
.title_red_letter{
    color:red;
    }
```

Side by side columns

- Since all the columns are placed side by side, we can specify the class 'row' display as 'flex' in CSS

```
.row{
    display:flex;
}
```

- Unordered list used for user options are also side by side, so make 'ul' display as flex

```
#header ul{

    display:flex;

}
```

127.0.0.1:5500/GroceryStore1/index.html

Grocery Shoppy ⚹⚹ ♥ Shop Locator 🚚 Track Order ☎ 001 234 5678🔒 Sign In✏ Sign Up

How can we help you today?   🔍   🛒

Set the width of the header row, margin and align it to center of the screen

```
.container {
    width: 1170px;
    margin: 0 auto;
}
```

```
#header .row {
    justify-content: space-between;
}
```

```
#header {
    margin-bottom: 20px;
}
```

Divide the header row in 36% and 62% for logo and 'user section'

```
#header .user_section{
    width: 62%;
}
```

```
#header .logo {
    width: 36%;
}
```

Grocery Shoppy

📍 Shop Locator 🚚 Track Order 📞 001 234 5678 🔒 Sign In 📝 Sign Up

How can we help you today?   🔍

Adjust height, width and spacing in header elements

- Assign some class name for text 'Grocery Shoppy' and adjust the letter spacing, margins etc. in style sheet

```
.name_text{
    font-size: 17px;
    font-style: italic;
    font-weight: normal;
    letter-spacing: 3px;
    margin-top: 12px;
}
```

Grocery Shoppy   Shop Locator Track Order 001 234 5678 Sign In Sign Up

How can we help you today? 🔍

User Navigation

- Assign a class name for user navigation and set the properties to align them

```
#header .user_nav ul li {
    padding: 5px 25px;
    border-right: 1px solid rgba(18, 18, 18, 0.18);
    margin-bottom: 20px;
}
```

```
#header .user_nav ul li a {
color: #000;
letter-spacing: 1px;
font-size: 13px;
}
```

```
#header .user_nav ul li a i {
color: #FF5722;
}
```

Search Bar and search button

- Assign a class name for 'div' containing the search bar and search button and assign properties to align them

```
#header .search {
    width: 85%;
    position: relative;
}
```

```
#header .search button {
    position: absolute;
    background-color:#1ACCFD;
    border: none;
    color: #fff;
    border-radius: 2px;
    width: 60px;
    height: 42px;
    right: 22px;
```

```
#header .search input[type='text'] {
    width: 90%;
    height: 40px;
    padding: 0px 10px;
    letter-spacing: 1px;
    outline: none;
    border: 1px solid #000;
}
```

```
#header .search button:hover {
    background-color: #FF5722;
}
```

Grocery Shoppy 🛒🎁 | 📍 Shop Locator | 🚚 Track Order | 📞 001 234 5678 | 🔒 Sign In | ✏️ Sign Up

How can we help you today? 🔍 🛒

Cart

- Assign name to div containing cart icon and write properties in CSS

```
#header .cart{
    width: 15%;
    text-align: center;
}
```

```
#header .cart .btn {
    background-color: #FF5722;
    height: 40px;
    width: 50px;
    color: #fff;
    border: none;
    font-size: 20px;
}
```

Grocery Shoppy

Shop Locator   Track Order   001 234 5678   Sign In   Sign Up

How can we help you today?

Navigation Bar: Write HTML code for drop down and menu bar

```
<nav id="main-navigation">
    <div class="container">
        <div class="row">
            A Column for Drop down

            A Column for Menu Bar
        </div>
    </div>
</nav>
```

```
<div class="col">
    <select>
        <option>All Categories</option>
        <option value="Kitchen"> Kitchen </option>
        <option value="hh">Household  </option>
        <option value="sb">Snacks &Beverages
        </option>
        <option value="">Personal Care</option>
        <option value="">Kitchen</option>
        <option value="">Household</option>
        <option value="">Snacks & Beverages
        </option>
        <option value="">Personal Care </option>
    </select>
</div>
```

```
<div class="col">
    <ul class="row">
        <li><a href="#">Home</a></li>
        <li><a href="#">About Us</a> </li>
        <li class="dropdown"><a
            href="#">Kitchen</a></li>
        <li class="dropdown"><a href="#">
        Household</a></li>
        <li><a href="#">FAQ</a></li>
        <li class="dropdown"><a href="#">
        Pages</a></li>
        <li><a href="#">Contact</a></li>
    </ul>
</div>
```
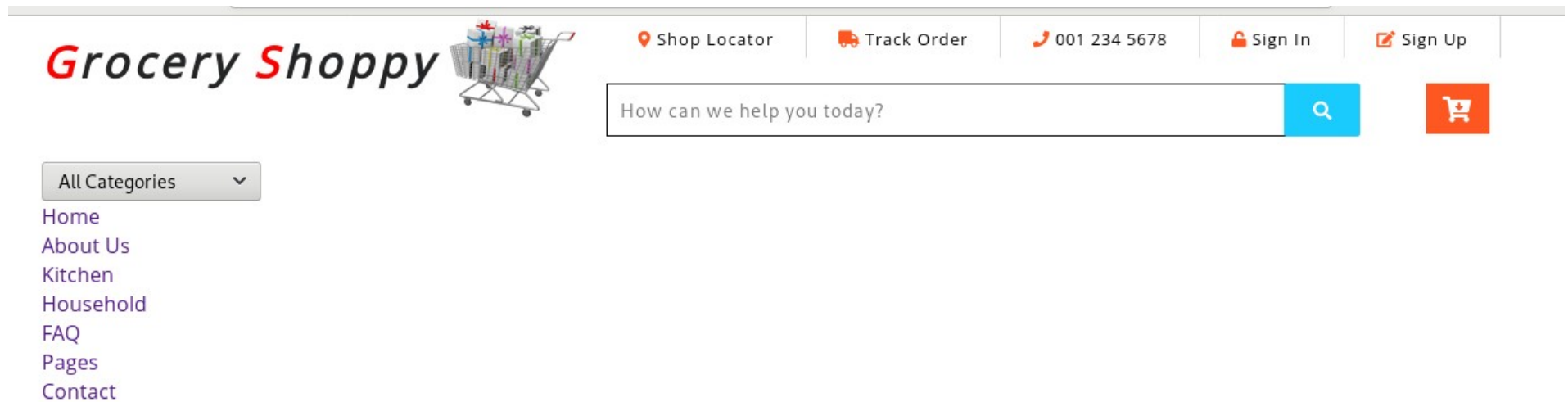
Column 1 and column 2 are having different width and properties, make separate classes for these two columns

```
<nav id="main-navigation">
    <div class="container">

        <div class="row justify-between">
            ┌─────────────────────────────────┐
            │ A Column for Drop down           │
            ├─────────────────────────────────┤
            │ A Column for Menu Bar            │
            └─────────────────────────────────┘
        </div>
    </div>
</nav>
```

```
<div class="col col-1">
    <select>
        <option>All Categories</option>
        <option value="Kitchen"> Kitchen </option>
        <option value="hh">Household  </option>
        <option value="sb">Snacks &Beverages
      </option>
        <option value="">Personal Care</option>
        <option value="">Kitchen</option>
        <option value="">Household</option>
        <option value="">Snacks & Beverages
        </option>
        <option value="">Personal Care </option>
    </select>
</div>
```

```
<div class="col col-2">
    <ul class="row">
        <li><a href="#">Home</a></li>
        <li><a href="#">About Us</a> </li>
        <li class="dropdown"><a
            href="#">Kitchen</a></li>
        <li class="dropdown"><a href="#">
        Household</a></li>
        <li><a href="#">FAQ</a></li>
        <li class="dropdown"><a href="#">
        Pages</a></li>
        <li><a href="#">Contact</a></li>
    </ul>
</div>
```

Output of HTML code

Grocery Shoppy

Shop Locator   Track Order   001 234 5678   Sign In   Sign Up

How can we help you today?

All Categories
Home
About Us
Kitchen
Household
FAQ
Pages
Contact

Write CSS for placement of navigation bar items

```css
#main-navigation {
    border:1px solid rgba(0,0,0,0.22);
    margin: 0px 10px;
    border-radius: 5px;
}
```

```css
#main-navigation .col-1 {
    width: 28%;
}
```

```css
#main-navigation .col-2 {
    width: 70%;
}
```

```css
#main-navigation select {
    width: 80%;
    padding: 16px;
    letter-spacing: 1px;
    background-color: #F3F3F3;
    border: none;
}
```

```css
#main-navigation ul li {
    margin: 0px 10px;
}
```

```css
#main-navigation ul li a {
    display: block;
    padding: 15px 16px;
    color: #000;
    letter-spacing: 1px;
}
```

```css
#main-navigation ul li.dropdown {
    position: relative;
}
```

```css
#main-navigation ul li.dropdown:after {
    content: "";
    position: absolute;
    right: 0px;
    top: 22px;
    border: 4px solid #000;
    border-color: #000 transparent transparent;
}
```
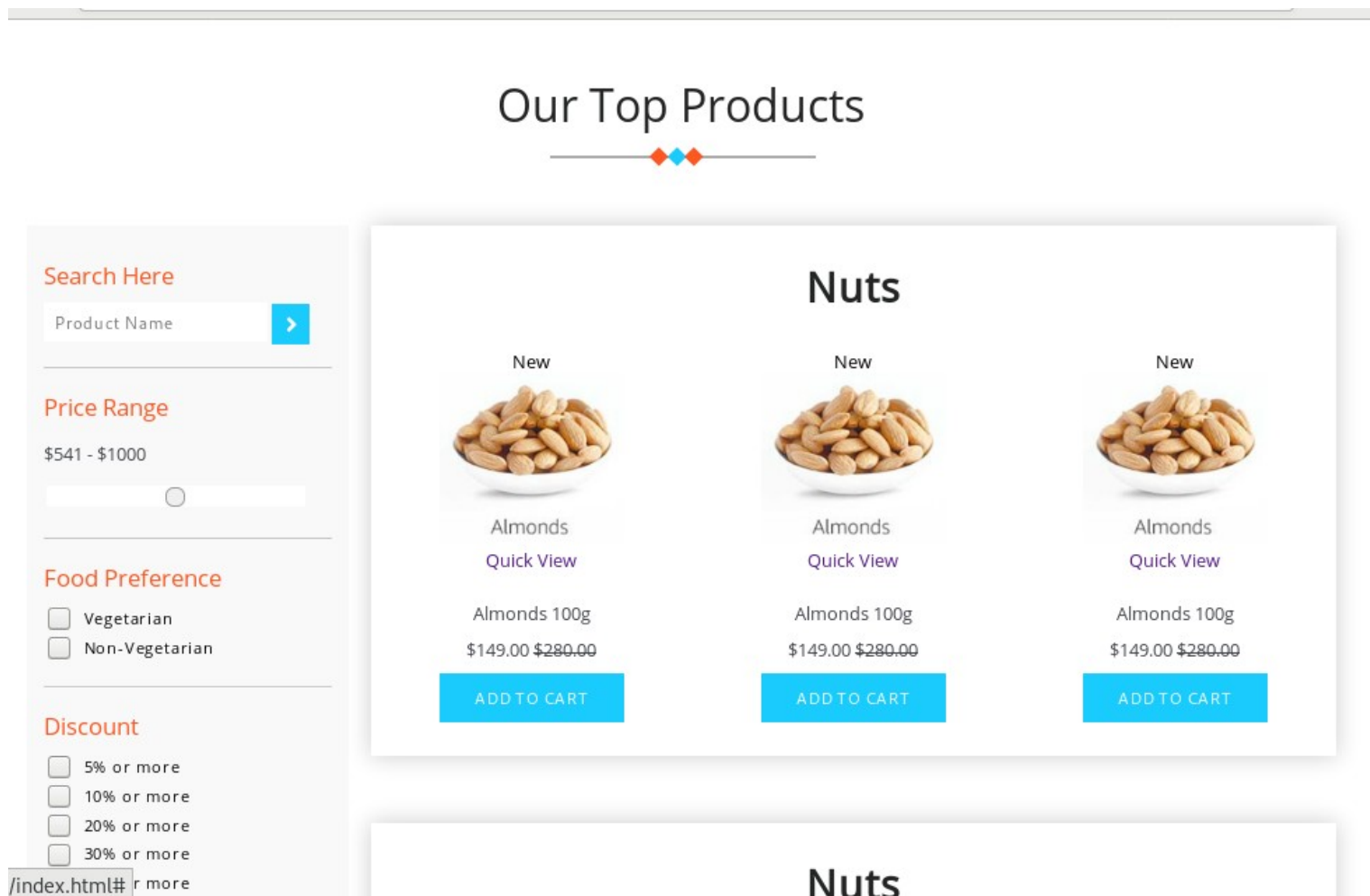
Output of Navigation Bar
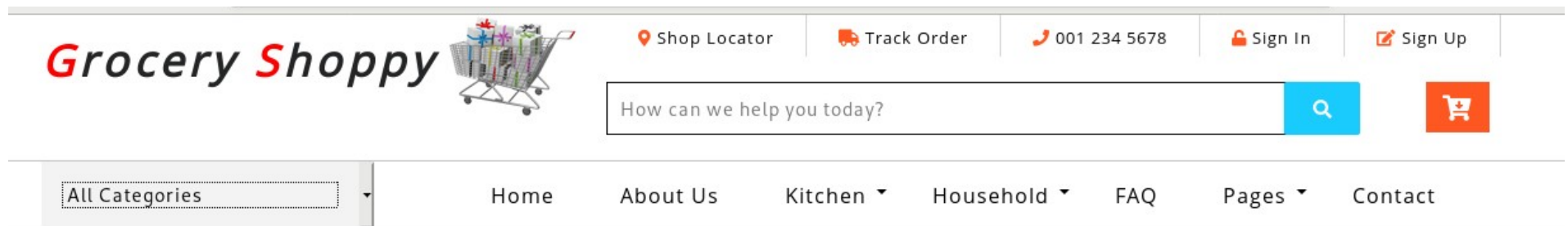
Content

- The main content is divided into two parts, left side 'sidebar' and right side pane along with a title

Content HTML

```
<div id="content">
    <div class="container">
        <div class="title">
        </div>
        <div class="row">
            <div class="col"
                <aside id="sidebar">
                </aside>
            </div>
            <div class="row">
                <div class="col">
                </div>
            </div>
        </div>
    </div>
</div>
```

For title 'Our Top Products'

For sidebar

For right side row and column

A <div> tag with id 'content' will hold all the content part

Title 'Out Top Products' HTML and CSS

```html
<h2 class="title">
Our Top Products <span
class="icons">
<i></i>
<i></i>
<i></i>
</span>
</h2>
```

```css
#content .title {
    text-align: center;
    font-size: 40px;
    font-weight: normal;
    position: relative;
    margin-bottom:
80px;
}
#content {
    padding: 70px 0px;
}
```

```css
#content .icons i {
    display: inline-block;
    height: 12px;
    width: 12px;
    margin: 0px -3px;
    transform: rotate(45deg);
    background-color: #FF5722;
}
```

```css
#content .icons {
    position: absolute;
    bottom: -36px;
    left: 50%;
    margin-left: -2%;
}
```

```css
#content .title:after {
    content: "";
    border: 1px solid rgba(0, 0, 0,
0.33);
    position: absolute;
    width: 20%;
    left: 50%;
    margin-left: -10%;
    bottom: -20px;
    z-index: -1;
}
```

```css
#content .title:after {
    content: "";
    border: 1px solid rgba(0, 0, 0,
0.33);
    position: absolute;
    width: 20%;
    left: 50%;
    margin-left: -10%;
    bottom: -20px;
    z-index: -1;
}
```

```css
#content .icons i:nth-child(2) {
    background-color:
#1ACCFD;
}
```

Sidebar

- Sidebar contains various elements like text box, check boxes, lists etc.

Search Here

| Product Name | > |

Price Range

$541 - $1000

○

Food Preference

☐ Vegetarian
☐ Non-Vegetarian

Discount

☐ 5% or more
☐ 10% or more
☐ 20% or more
☐ 30% or more
☐ 40% or more
☐ 50% or more

Customer Review

★★★★★ 5.0
★★★★☆ 4.0
★★★⯪☆ 3.5
★★★☆☆ 3.0
★★⯪☆☆ 2.5

Sidebar HTML

```html
<!-- For price range-->
<div class="widget">
   <h3>Price Range</h3>
   <p>
     <output>$541 -
$1000</output>
   </p>
   <input type="range">
</div>
```

```html
<!-- For Search Bar-->
<div class="widget">
   <h3>Search Here</h3>
   <div class="form">
     <form action="#">
       <input type="text" placeholder="Product
Name">
       <button type="submit" class="btn-1">
          <i class="fas fa-angle-right"></i>
       </button>
     </form>
   </div>
</div>
```

```html
<!-- For check boxes-->
<div class="widget">
   <h3>Food Preference</h3>
   <ul>
     <li>
       <input type="checkbox" id="veg">
       <label for="veg">Vegetarian</label>
     </li>
     <li>
       <input type="checkbox" id="non-veg">
       <label
for="non-veg">Non-Vegetarian</label>
     </li>
   </ul>
```

Sidebar HTML

```
<div class="widget">
  <h3>Customer Review</h3>
  <ul class="reviews">
    <li>
      <i class="fas fa-star"></i>
      <i class="fas fa-star"></i>
      <i class="fas fa-star"></i>
      <i class="fas fa-star"></i>
      <i class="fas fa-star"></i>
      <span>5.0</span>
    </li>
    <li>
    Write for other star ratings
    </li>
    <li>
    Write for other star ratings
    </li>`
    <li>
    Write for other star ratings
    </li>
  </ul>
</div>
```

For Discount

```
<div class="widget">
  <h3>Discount</h3>
  <ul>
    <li>
      <input type="checkbox" id="discount_1">
      <label for="discount_1">5% or more</label>
    </li>
    <li>
      <input type="checkbox" id="discount_2">
      <label for="discount_2">10% or more</label>
    </li>
    <li>
      <input type="checkbox" id="discount_3">
      <label for="discount_3">20% or more</label>
    </li>
    <li>
      <input type="checkbox" id="discount_4">
      <label for="discount_4">30% or more</label>
    </li>
    <li>
      <input type="checkbox" id="discount_5">
      <label for="discount_5">40% or more</label>
    </li>
```

Sidebar HTML output

Our Top Products

Search Here

| Product Name | › |

Price Range

$541 - $1000

Food Preference

☐ Vegetarian
☐ Non-Vegetarian

Discount

☐ 5% or more
☐ 10% or more
☐ 20% or more
☐ 30% or more
☐ 40% or more
☐ 50% or more

Customer Review

★★★★★ 5.0
★★★★☆ 4.0
★★★⯪☆ 3.5
★★★☆☆ 3.0
★★⯪☆☆ 2.5

Sidebar CSS

*/*Assign col-1 class to sidebar and col-2 to right side bar**

```css
#content .col-1 {
    width: 25%;
}

#content .col-2 {
    width: 75%;
    margin-left: 20px;
}
#sidebar .widget .form input[type='text']
{
    width: 70%;
    height: 35px;
    border: none;
    padding: 0px 10px;
    letter-spacing: 1px;
}
#sidebar .widget input[type='range']::-webkit-slider-runnable-track {
    height: 6px;
    background-color: #1ACCFD;
    cursor: pointer;
    outline: none;
}
```

```css
#sidebar {
    background-color: #F9F9F9;
    padding: 20px 15px;
}

#sidebar .widgets .widget {
    border-bottom: 1px solid rgba(0, 0, 0, 0.2);
    padding: 10px 0px 20px;
    margin-bottom: 10px;
}

#sidebar .widgets h3 {
    font-weight: normal;
    color: #FF5722;
    font-size: 21px;
    margin-bottom: 10px;
#sidebar .widget input[type='range'] {
}
    width: 90%;
    -webkit-appearance: none;
}
```

```css
#sidebar .widget input[type='range']::-webkit-slider-thumb
{
    border: 1px solid #FF5722;
    border-radius: 50%;
    height: 17px;
    width: 17px;
    background-color: #FF5722;
    -webkit-appearance: none;
    margin-top: -5px;
    cursor: pointer;
    outline: none;
}
#sidebar .widget input[type='range']:focus::-webkit-slider-thumb
{
    outline: none;
    border-color: none;
}
#sidebar .widget input[type='checkbox']
{
    vertical-align: middle;
}
#sidebar .widget .reviews i {
    color: #FFC107;
    font-size: 14px;
    margin-right: 3px;
}
```
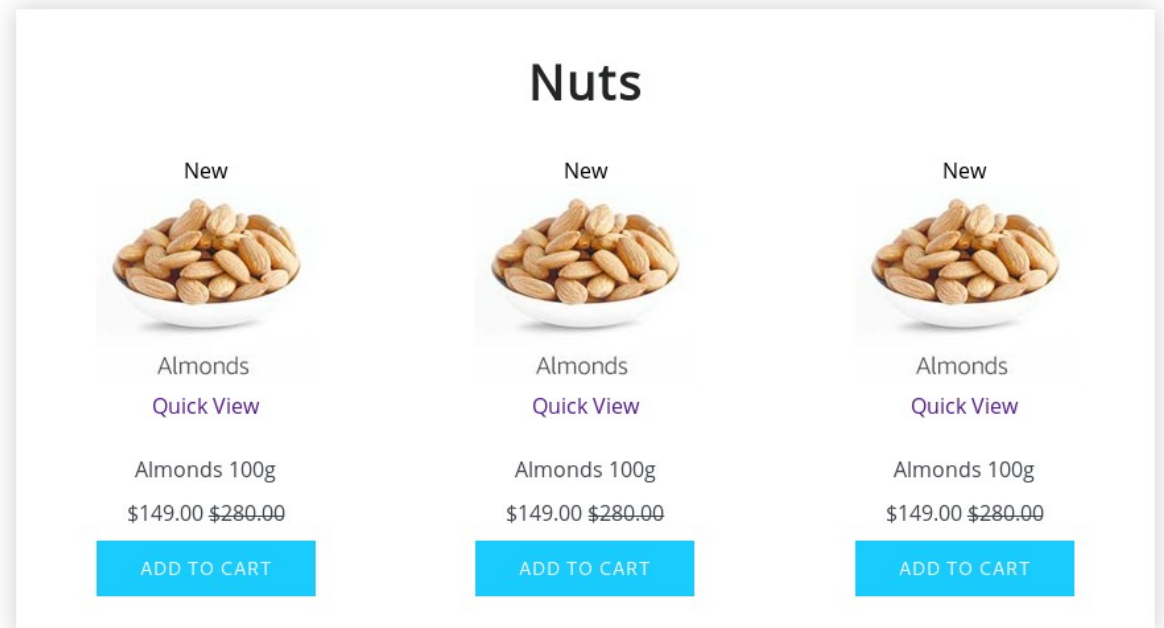
```css
#sidebar .widget label {
    font-size: 14px;
    letter-spacing: 1px;
    margin-left: 5px;
}
```

Right-side column

- Right side column is divided in rows with three product displayed in each row

- \<main\> tag can be used to keep all the product cards

- \<section\> tag can be used to show related products in each row

- Appropriate classes can be used to show cards

Right-side column HTML

```html
<main id="main">
 <section id="section_1" class="products">
  <h2>Nuts</h2>
  <div class="row">
    <div class="col">
      <div class="box">
        <div class="new">
          <span>New</span>
        </div>
        <div class="image">
          <a href="#">
            <img src="assets/images/m1.jpg" alt="img_1">
          </a>
          <div class="quick_view">
            <a href="#">Quick View</a>
          </div>
        </div>
        <div class="desc">
          <p>
            Almonds 100g
          </p>
          <p>
            <span>$149.00</span>
            <del>$280.00</del>
          </p>
          <button class="btn-1">Add to cart</button>
        </div>
      </div>
    </div>
  </div>
 </section>
```

Repeat the column for three times for three cards in a row

Repeat the section for as many sections required

Rightside HTML - Output

Right-side section CSS

```
#main .row {
    justify-content: space-around;
}
```

```
#main .products h2 {
    font-size: 36px;
}
```

```
#main .products img {
    width: 100%;
}
```

```
#main .products {
    text-align: center;
    margin-bottom: 60px;
    padding: 30px 0px;
    box-shadow: 0px 0px 20px rgba(0, 0, 0, 0.2);
}
```

```
#main .products .image {
    margin-bottom: 25px;
}
```

```
#main .products p {
    margin: 10px 0px;
}
```

```
#main .products .btn-1 {
    font-size: 14px;
    text-transform: uppercase;
    letter-spacing: 1px;
    width: 100%;
    padding: 12px 0px;
}
```

Right-side section Output