

## **MINI PROJECT (2020-21)**

**Build and deploy a website for shopping that satisfies the basic needs of our customers in just few clicks.**

### **MID-TERM REPORT**



**Institute of Engineering & Technology**

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## **Abstract**

Electronic Commerce is process of doing business through computer networks. A person sitting on his chair in front of a computer can access all the facilities of the Internet to buy or sell the products.

Unlike traditional commerce that is carried out physically with effort of a person to go & get products, ecommerce has made it easier for human to reduce physical work and to save time. E-Commerce which was started in early 1990's has taken a great leap in the world of computers, but the fact that has hindered the growth of e-commerce is security. Security is the challenge facing e-commerce today & there is still a lot of advancement made in the field of security.

The main advantage of e-commerce over traditional commerce is the user can browse online shops, compare prices and order merchandise sitting at home on their PC.

Electronic commerce or ecommerce is a term for any type of business, or commercial transaction, that involves the transfer of information across the Internet. It covers a range of different types of businesses, from consumer based retail sites, through auction or music sites, to business exchanges trading goods and services between corporations. It is currently one of the most important aspects of the Internet to emerge.

## **Introduction**

### **1.1 General Introduction to the topic**

This E-Commerce website is a perfect mate for Shopping Lovers, that stimulates the customers to get their orders Delivered at home in just one click. This will be a user-friendly application with proper category tabs defined on homepage. It will have a large variety of products depending on various needs of people ,of all age groups, so that people can filter out based on their demand. Customer can register themselves once and then in just by logging in they can enjoy our services , all the login details will get stored in database through backend.

Once the user will place an order, an order id will be generated and provided to the user for making this whole process smooth. For this Application we will be using both Frontend and Backend Technologies and Database for storing the data.

Our major objective will be to make this Application as much user friendly as we can and satisfying the daily needs of our customers in just few clicks.

To make the more user friendly ,the website will be made fully responsive.

## **Present Challenges Facing E-Commerce**

Speaking of obstacles, there are a lot of them that need to be uprooted before e-commerce can compete with traditional commerce. The biggest obstacle in the course of advancement of e-commerce is that the consumer's senses are limited to seeing and hearing the product. The second largest problem that e-commerce has been facing over the past few years is that of security. Traditional buyers and sellers are still paranoid about conducting business online

## **About this E-commerce website -**

- Let customers to provide ratings and reviews for our products.
- Simple, fast and convenient for ordering different category of products.
- Products with the actual pictures of the product thereby adding to the uniqueness of your online presence.
- Receive direct customer feedback and suggestions.
- Greater customer satisfaction!!!

## **How it Works: -**

- In this website, while accessing for the first time, customers' needs to register themselves by filling up basic registration details.
- Once the registration is successful, customer need to login with a valid username and password for secure login.
- The product categories will be visible to the customer. All the products will be shown with their prices.
- After selecting a desired product, customers can view the details of it such as Reviews, ratings, also he can add it to a cart.
- Customer can directly click on buy now to place an order.
- Now payment option is shown to the customer. He can choose from the various online payment methods or cash on delivery option.
- Customer can notify the admin about the system by writing a feedback message.

## **1.2 Area of Computer Science**

### **HTML.**

Hypertext Markup Language, a standardized system for tagging text files to achieve font, color, graphic, and hyperlink effects on World Wide Web pages.

It is the standard markup language for creating Web pages. HTML stands for Hyper Text Markup Language; HTML describes the structure of a Web page; HTML consists of a series of elements; HTML elements tell the browser how to display the content; HTML elements are represented by tags; HTML tags label pieces of content such as "heading "...

### **CSS-**

**Cascading Style Sheets ( CSS)** is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts.

Advantages of CSS. CSS saves time – You can write CSS once and then reuse same sheet in multiple HTML pages. You can define a style for each HTML element and apply it to as many Web pages as you want. Pages load faster – If you are using CSS, you do not need to write HTML tag attributes every time.

### **JavaScript:**

- . It is an object-oriented computer programming language commonly used to create interactive effects within web browser.

JavaScript (JS) is a scripting language, primarily used on the Web. It is used to enhance HTML pages and is commonly found embedded in HTML code. JavaScript is an Interpreted language. Thus, it doesn't need to be compiled. JavaScript renders web pages in an interactive and dynamic fashion. This allowing the pages to react to events, exhibit special effects, accept variable text, validate data, create cookies, detect a user's browser, etc.

HTML pages are fine for displaying static content, e.g. a simple image or text. However, most pages nowadays are rarely static. Many of today's pages have menus, forms, slideshows and even images that provide user interaction. JavaScript is the language employed by web developers to provide such interaction. Since JavaScript works with HTML pages, a developer needs to know HTML to harness this scripting language's full potential. While there are other languages that can be used for scripting on the Web, in practice it is essentially all JavaScript. support JavaScript.

## **mongo DB**

**mongo DB** is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License (SSPL). MongoDB provides high availability with replica sets. A replica set consists of two or more copies of the data. Each replica-set member may act in the role of primary or secondary replica at any time. All writes and reads are done on the primary replica by default. Secondary replicas maintain a copy of the data of the primary using built-in replication.

## **Node js-**

**Node.js** is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser. Node.js lets developers use JavaScript to write command line tools and for server-side scripting—running scripts server-side to produce dynamic web page content before the page is sent to the user's web browser. Consequently, Node.js represents a "JavaScript everywhere" paradigm,<sup>1</sup> unifying web-application development around a single programming language, rather than different languages for server-side and client-side scripts. In January 2010, a package manager was introduced for the Node.js environment called *npm*. The package manager makes it easier for programmers to publish and share source code of Node.js packages and is designed to simplify installation, updating, and uninstallation of packages

## **React-**

**React** (also known as **React.js** or **ReactJS**) is an open-source, front end, JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single-page or mobile applications. However, React is only concerned with state management and rendering that state to the DOM, so creating

React applications usually require the use of additional libraries for routing, as well as certain client-side functionality. React code is made of entities called components. Components can be rendered to a particular element in the DOM using the React DOM library. When rendering a component, one can pass in values that are known as "props":

## Express-

**Express.js**, or simply **Express**, is a back end web application framework for Node.js, released as free and open-source software under the MIT License. It is designed for building web applications and APIs. It has been called the de facto standard server framework for Node.js.

The original author, TJ Holowaychuk, described it as a Sinatra-inspired server, meaning that it is relatively minimal with many features available as plugins. Express is the back-end component of popular development stacks like the MEAN, MERN or MEVN stack, together with the Mongo DB database software and a JavaScript front-end framework or library.

## **1.3 Hardware & Software Requirements**

- Memory [4GB RAM (or higher)]
- Intel core i3 64-bit Processor (or higher)
- Visual studio code(version 1.50.1):  
Visual Studio Code is a code editor redefined and optimized for building and debugging modern web and cloud applications. Visual Studio Code is free and available on your favorite platforms.
- Any OS

## **Objective**

This website offers our customers a superior product i.e., that will promote customer loyalty, at a low price, and provide customer service that is second to none. Its objective is to satisfy the customer's demand that is delivered quickly with a smile.

Our goal is to deliver a website with a user interface (website) where customers can select various kinds of products and place their order.

The focus is to create an “easy to use” website, which will allow a first time customer to complete their order with ease.

## **Advantages:**

- It overcomes all the problems of existing system.
- Shopping can be done in more convenient way.
- Payment can be easily done using various online mode or cash on delivery (COD)
- Admin can view sales report which can be helpful for decision making.
- Easy add/update/delete process of products.

## **Disadvantages:**

- System may provide inaccurate results if data not entered correct

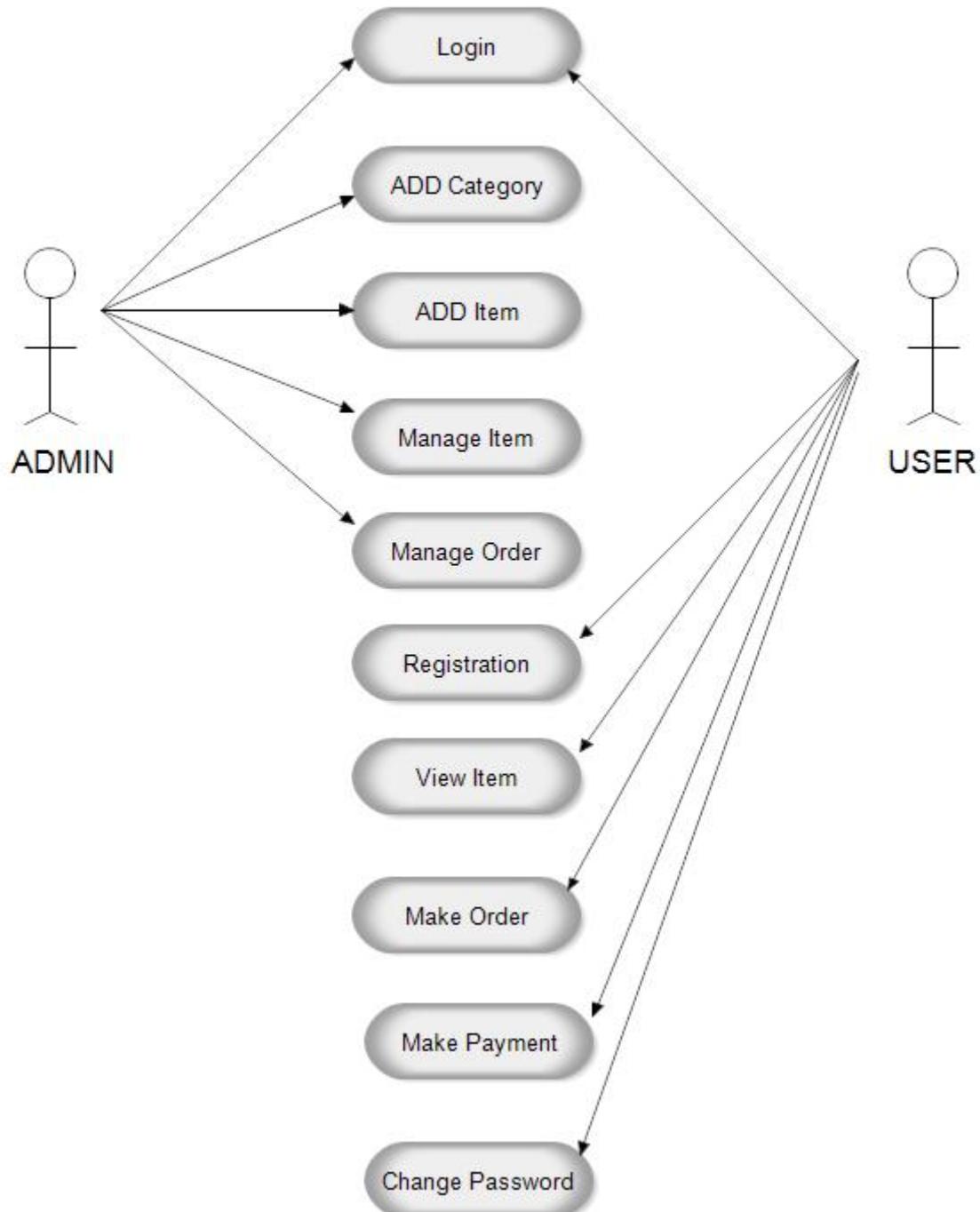
## **Progress:**

More than 30% progress has been made in this project till now.

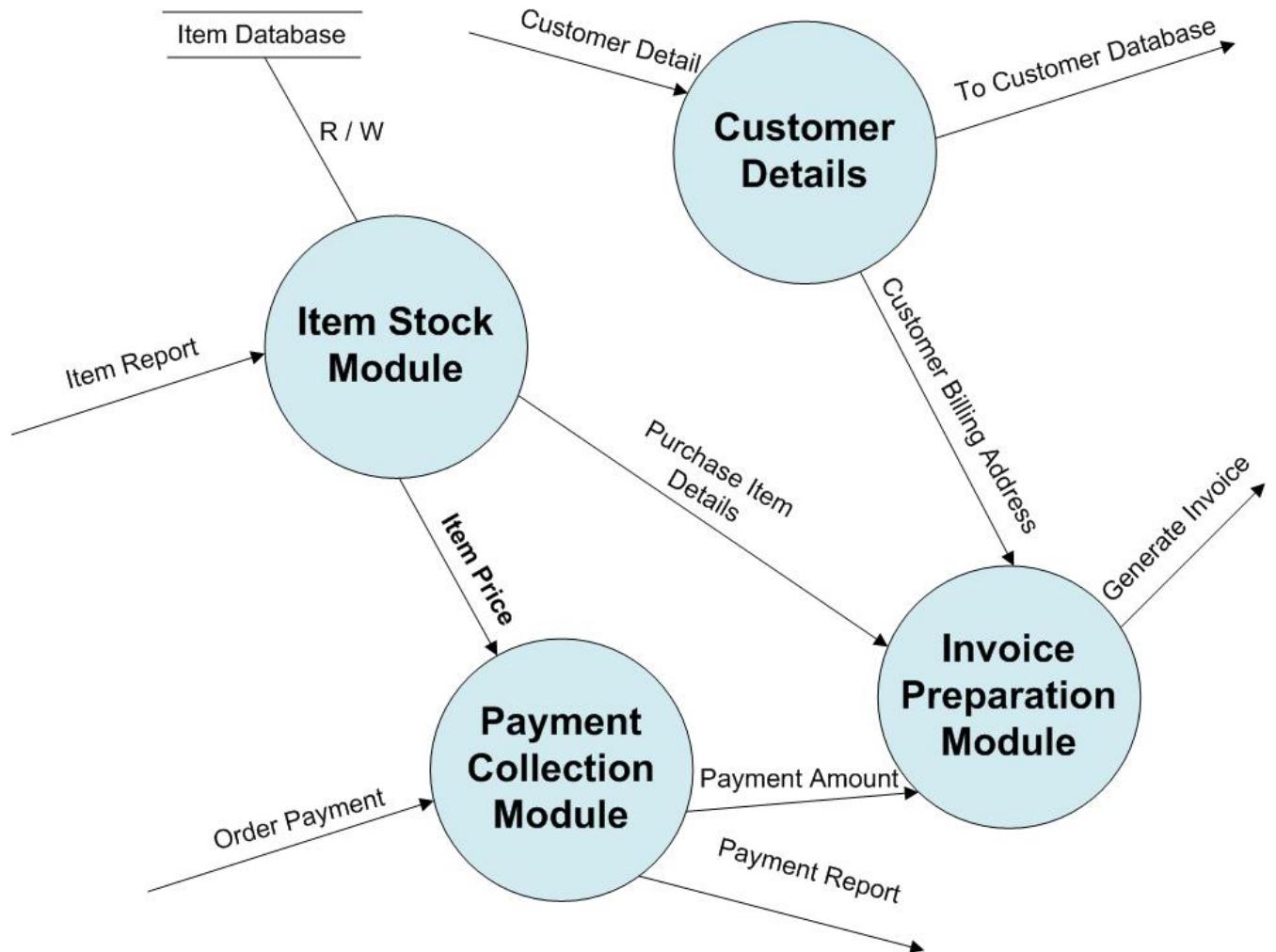
Almost all of the frontend is ready ,just adding JavaScript for functionality is left

## Use case Diagram

**Use Case Diagram for Online Shopping Website**



## Data Flow Diagram.



# SCREENSHOTS

## Index.html

This screenshot shows the Visual Studio Code interface with the file `index.html` open. The code editor displays the following HTML template:

```
<!DOCTYPE html>
<html>
  <head>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"/>
    <link rel="stylesheet" href="./index.css"/>
    <title></title>
  </head>
  <body>
    <div class="grid-container">
      <header class="row">
        <div>
          <a class="brand" href="index.html">S</a>
        </div>
        <div>
          <a href="cart.html">Cart</a>
          <a href="signin.html">Sign In</a>
        </div>
      </header>
      <main>
        <div class="row center">
          <div class="card">
            <a href="product.html">
              <!-- image size: 680px by 830px -->
              
            </a>
            <div class="card-body">
              <a href="product.html">
                <h2>Nike Slim Shirts</h2>
              </a>
            </div>
            <div class="rating">
              <span> <i class="fa fa-star"></i> </span>
              <span> <i class="fa fa-star"></i> </span>
            </div>
            <div class="price">$120</div>
          </div>
        </div>
        <div class="card">
          <a href="product.html">
            <!-- image size: 680px by 830px -->
            
          </a>
          <div class="card-body">
            <a href="product.html">
              <h2>Nike Slim Shirts</h2>
            </a>
          </div>
          <div class="rating">
            <span> <i class="fa fa-star"></i> </span>
            <span> <i class="fa fa-star"></i> </span>
          </div>
          <div class="price">$120</div>
        </div>
      </main>
    </div>
  </body>
</html>
```

The code editor has a dark theme. A tooltip is visible over the `href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"` link, providing a detailed description of the attribute.

This screenshot shows the Visual Studio Code interface with the file `index.html` open. The code editor displays the following HTML template, which includes additional content from line 30 to line 90:

```
... (lines 1-29)
<div class="rating">
  <span> <i class="fa fa-star"></i> </span>
  <span> <i class="fa fa-star"></i> </span>
</div>
<div class="price">$120</div>
</div>
</div>
<div class="card">
  <a href="product.html">
    <!-- image size: 680px by 830px -->
    
  </a>
  <div class="card-body">
    <a href="product.html">
      <h2>Nike Slim Shirts</h2>
    </a>
  </div>
  <div class="rating">
    <span> <i class="fa fa-star"></i> </span>
    <span> <i class="fa fa-star"></i> </span>
  </div>
  <div class="price">$120</div>
</div>
</div>
</main>
</div>
</body>
</html>
```

File Edit Selection View Go Run Terminal Help index.html - Shopify - Visual Studio Code

EXPLORER OPEN EDITORS # index.css template # index.html template SHOPIFY template images # index.css # index.html

```
template > index.html > html > head > link
49      </a>
50      <div class="rating">
51          <span> <i class="fa fa-star"></i> </span>
52          <span> <i class="fa fa-star"></i> </span>
53          <span> <i class="fa fa-star"></i> </span>
54          <span> <i class="fa fa-star"></i> </span>
55          <span> <i class="fa fa-star"></i> </span>
56      </div>
57      <div class="price">$120</div>
58  </div>
59  </div>
60  <div class="card">
61      <a href="product.html">
62          <!-- image size: 680px by 830px -->
63          
64      </a>
65      <div class="card-body">
66          <a href="product.html">
67              <h2>Nike Slim Shirts</h2>
68          </a>
69          <div class="rating">
70              <span> <i class="fa fa-star"></i> </span>
71              <span> <i class="fa fa-star"></i> </span>
72              <span> <i class="fa fa-star"></i> </span>
73              <span> <i class="fa fa-star"></i> </span>
74              <span> <i class="fa fa-star"></i> </span>
75          </div>
76          <div class="price">$120</div>
77      </div>
78  </div>
```

Ln 4, Col 28 Spaces: 2 UTF-8 CRLF HTML ⚡ Port: 5500 ⚡ 🔍

File Edit Selection View Go Run Terminal Help index.html - Shopify - Visual Studio Code

EXPLORER OPEN EDITORS # index.css template # index.html template SHOPIFY template images # index.css # index.html

```
template > index.html > html > head > link
79      <div class="card">
80          <a href="product.html">
81              <!-- image size: 680px by 830px -->
82              
83          </a>
84          <div class="card-body">
85              <a href="product.html">
86                  <h2>Nike Slim Shirts</h2>
87              </a>
88              <div class="rating">
89                  <span> <i class="fa fa-star"></i> </span>
90                  <span> <i class="fa fa-star"></i> </span>
91                  <span> <i class="fa fa-star"></i> </span>
92                  <span> <i class="fa fa-star"></i> </span>
93                  <span> <i class="fa fa-star"></i> </span>
94          </div>
95          <div class="price">$120</div>
96      </div>
97  </div>
98  <div class="card">
99      <a href="product.html">
100         <!-- image size: 680px by 830px -->
101         
102     </a>
103     <div class="card-body">
104         <a href="product.html">
105             <h2>Nike Slim Shirts</h2>
106         </a>
107         <div class="rating">
108             <span> <i class="fa fa-star"></i> </span>
```

Ln 4, Col 28 Spaces: 2 UTF-8 CRLF HTML ⚡ Port: 5500 ⚡ 🔍

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** index.html - Shopify - Visual Studio Code.
- Sidebar:** Explorer, Open Editors, Outline, NPM Scripts.
- Editor Area:** The main editor shows the `index.html` template code. The code includes a product card with a rating of 5 stars, a price of \$120, and a link to `product.html`. It also includes a second, identical product card below it.
- Right Panel:** A sidebar panel on the right displays a tree view of the project structure, showing files like `index.css`, `index.html`, `product.html`, and `script.js`.

```
<div class="rating">
<span> <i class="fa fa-star"></i> </span>
</div>
<div class="price">$120</div>
</div>
</div>
<div class="card">
<a href="product.html">
<!-- image size: 680px by 830px -->

</a>
<div class="card-body">
<a href="product.html">
<h2>Nike Slim Shirts</h2>
</a>
<div class="rating">
<span> <i class="fa fa-star"></i> </span>
<span> <i class="fa fa-star-half-o"></i> </span>
</div>
<div class="price">$120</div>
</div>
</div>
```

## Index.css

```
# index.css
template > Indicates the desired height of glyphs from the font. For scalable fonts, the font-size is a scale factor applied to the EM unit of the font. (Note that certain glyphs may bleed outside their EM box.) For non-scalable fonts, the font-size is converted into absolute units and matched against the declared font-size of the font, using the same absolute coordinate space for both of the matched values.
  1 ht bo Syntax: <absolute-size> | <relative-size> | <length-percentage>
  2
  3
  4 }
  5
  6
  7 MDN Reference
  8 font-size: 1.6rem;
  9 font-family: Helvetica, Arial, sans-serif;
 10 }
 11
 12 /* Layout */
 13 .grid-container {
 14   display: grid;
 15   grid-template-areas:
 16     'header'
 17     'main'
 18     'footer';
 19   grid-template-columns:1fr;
 20   grid-template-rows: 5rem 1fr 5rem;
 21   height: 100%;
 22 }
 23 header {
 24   grid-area: header;
 25   background-color: #203040;
 26 }
 27 main {
 28   grid-area: main;
 29   padding: 1rem;
 30 }
```

index.css - Shopify - Visual Studio Code

```
template > # index.css > html
31 footer {
32   grid-area: footer;
33   background-color: #203040;
34   color: #ffffff;
35 }
36 /* Common */
37 h1 {
38   font-size: 1.8rem;
39   padding: 1rem 0;
40 }
41 h2 {
42   font-size: 1.6rem;
43   padding: 1rem 0;
44 }
45 a {
46   text-decoration: none;
47 }
48 a:hover {
49   color: #fff800;
50 }
51 /* Header */
52 header a {
53   color: #ffffff;
54   padding: 1rem;
55 }
56 a.brand {
57   color: #ffffff;
58   font-size: 3rem;
59   font-weight: bold;
60 }
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF CSS ⚡ Port: 5500 ⚡ ⚡

index.css - Shopify - Visual Studio Code

```
template > # index.css > html
61 }
62 .row {
63   display: flex;
64   flex-wrap: wrap;
65   justify-content: space-between;
66   line-height: 50px;
67 }
68 .row.center {
69   justify-content: center;
70 }
71 /* Image */
72 img {
73   border-radius: 0.5rem;
74 }
75 img.medium {
76   max-width: 29rem;
77 }
78 }

79 /* Card */
80 .card {
81   border: 0.1rem #c0c0c0 solid;
82   background-color: #f8f8f8;
83   border-radius: 0.5rem;
84   margin: 1rem;
85 }
86 .card-body {
87   padding: 1rem;
88 }
89 .card-body > * {
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF CSS ⚡ Port: 5500 ⚡ ⚡

# User Interface

Shopify Cart Sign

Nike Slim Shirts

★★★★★

\$120

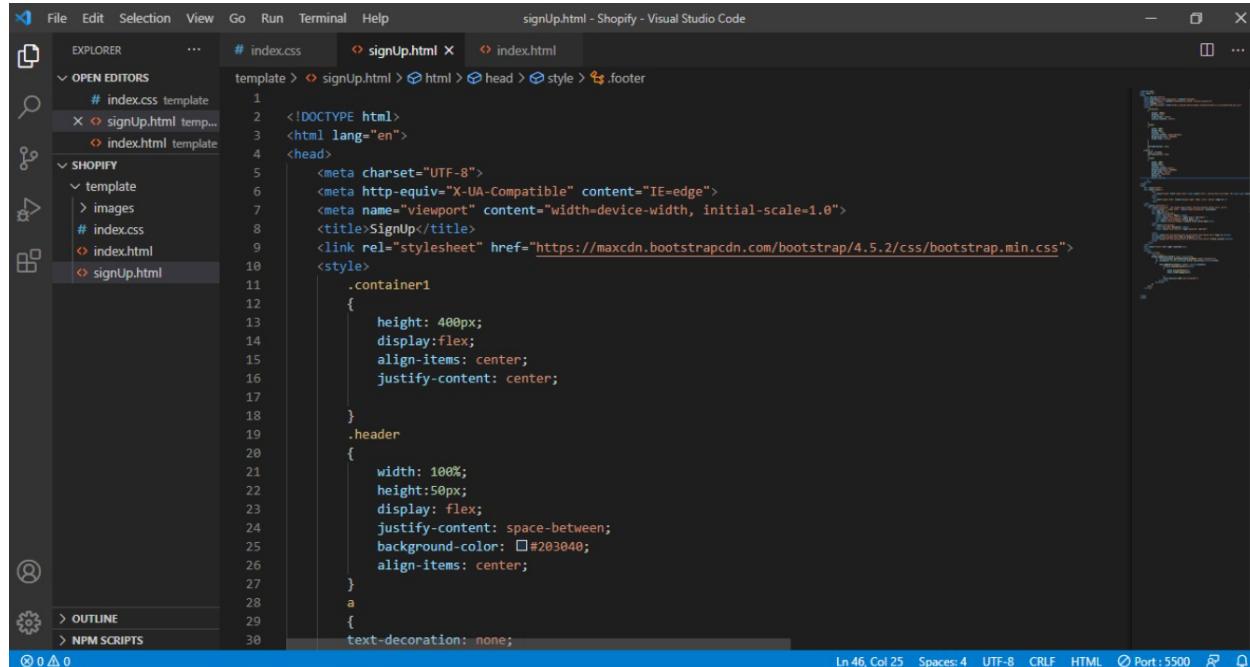
Nike Slim Shirts

★★★★★

\$120

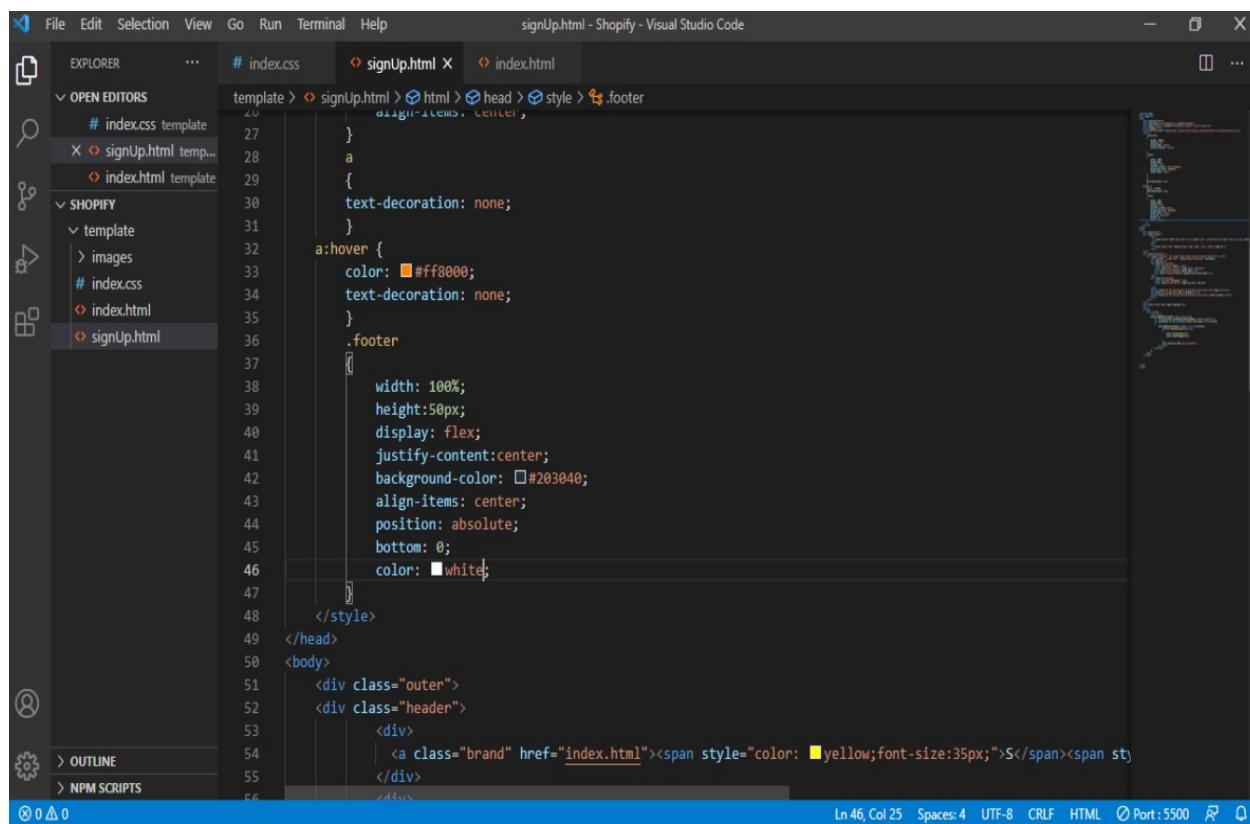
All right reserved

# Signup.html



A screenshot of Visual Studio Code showing the file `signUp.html` open. The code is a basic HTML page with some CSS styling. The `index.css` file is also visible in the Explorer sidebar.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>SignUp</title>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <style>
      .container {
        height: 400px;
        display: flex;
        align-items: center;
        justify-content: center;
      }
      .header {
        width: 100%;
        height: 50px;
        display: flex;
        justify-content: space-between;
        background-color: #283040;
        align-items: center;
      }
      a {
        text-decoration: none;
      }
    </style>
  </head>
  <body>
    <div class="outer">
      <div class="header">
        <div>
          <a class="brand" href="index.html"><span style="color: yellow; font-size: 35px;">S</span><span style="font-size: 20px; margin-left: 10px;">ign</span></a>
        </div>
      </div>
    </div>
  </body>
</html>
```



A screenshot of Visual Studio Code showing the file `signUp.html` open. The code is the same as the previous screenshot, but more of it is visible due to a scroll bar on the right side of the editor.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>SignUp</title>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <style>
      .container {
        height: 400px;
        display: flex;
        align-items: center;
        justify-content: center;
      }
      .header {
        width: 100%;
        height: 50px;
        display: flex;
        justify-content: space-between;
        background-color: #283040;
        align-items: center;
      }
      a {
        text-decoration: none;
      }
      a:hover {
        color: #ff8000;
        text-decoration: none;
      }
      .footer {
        width: 100%;
        height: 50px;
        display: flex;
        justify-content: center;
        background-color: #283040;
        align-items: center;
        position: absolute;
        bottom: 0;
        color: white;
      }
    </style>
  </head>
  <body>
    <div class="outer">
      <div class="header">
        <div>
          <a class="brand" href="index.html"><span style="color: yellow; font-size: 35px;">S</span><span style="font-size: 20px; margin-left: 10px;">ign</span></a>
        </div>
      </div>
    </div>
  </body>
</html>
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Editor:** The main area displays the code for `signUp.html`. The code includes a header with navigation links, a container for form fields, and two buttons: "Sign in" and "New to Shopify?".
- Explorer:** Shows the project structure under "OPEN EDITORS" and "SHOPIFY".
- Bottom Status Bar:** Lnt 46, Col 25, Spaces: 4, UTF-8, CRLF, HTML, Port: 5500.

```
template > signUp.html > html > head > style > footer
48 |     </style>
49 |   </head>
50 |   <body>
51 |     <div class="outer">
52 |       <div class="header">
53 |         <div>
54 |           <a class="brand" href="index.html"><span style="color: yellow;font-size:35px;">S</span><span style="font-size:15px;">ign In</a>
55 |         </div>
56 |         <div>
57 |           <a href="signin.html" style="margin-right: 30px; color: white;">Sign In</a>
58 |         </div>
59 |       </div>
60 |       <div class="container1" >
61 |         <div class="container row align-items-center justify-content-center mt-5 pt-3">
62 |           <form action="/index.html" class="needs-validation" novalidate>
63 |             <h1>sign up</h1>
64 |             <div class="form-group">
65 |               <label for="email">Email:</label>
66 |               <input class="form-control" type="email" id="email" >
67 |               <div class="valid-feedback">Valid Email</div>
68 |               <div class="invalid-feedback">please write valid Email</div>
69 |             </div>
70 |             <div class="form-group">
71 |               <label for="pwd">Password:</label>
72 |               <input class="form-control" type="password" id="pwd" >
73 |             </div>
74 |             <button class="btn btn-warning btn-lg btn-block text-white mb-2">Sign in</button>
75 |             <h6 class="font-weight-bold">New to Shopify ?</h6>
76 |             <button class="btn btn-warning btn-lg btn-block text-white">Create Account</button>
77 |           </div>
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Editor:** The main area displays the code for `signUp.html`. The code includes a header with navigation links, a container for form fields, and two buttons: "Sign in" and "New to Shopify?". Below the buttons is a "Create Account" button. A script block at the bottom handles form validation.
- Explorer:** Shows the project structure under "OPEN EDITORS" and "SHOPIFY".
- Bottom Status Bar:** Lnt 46, Col 25, Spaces: 4, UTF-8, CRLF, HTML, Port: 5500.

```
template > signUp.html > html > head > style > footer
69 |     </div>
70 |     <div class="form-group">
71 |       <label for="pwd">Password:</label>
72 |       <input class="form-control" type="password" id="pwd" >
73 |
74 |     </div>
75 |     <button class="btn btn-warning btn-lg btn-block text-white mb-2">Sign in</button>
76 |     <h6 class="font-weight-bold">New to Shopify ?</h6>
77 |     <button class="btn btn-warning btn-lg btn-block text-white">Create Account</button>
78 |   </div>
79 | </div>
80 | <div class="footer">All right reserved</div>
81 | </div>
82 | <script>
83 |   (function(){
84 |     'use strict';
85 |     window.addEventListener('load',function(){
86 |       var forms=document.getElementsByClassName('needs-validation');
87 |       var validation =Array.prototype.filter.call(forms,function(form)
88 |       {
89 |         form.addEventListener('submit',function(event){
90 |           if(form.checkValidity()==false)
91 |           {
92 |             event.preventDefault();
93 |             event.stopPropagation();
94 |
95 |           }
96 |           form.classList.add('was-validated');
97 |         },false);
98 |       });
99 |     });
100 |   })();
```

```
template > signUp.html > html > head > style > footer
81 </div>
82 </div>
83 <script>
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85     'use strict';
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93             event.preventDefault();
94             event.stopPropagation();
95           }
96           form.classList.add('was-validated');
97         },false);
98       },false);
99     })();
100   })();
101 </script>
102 </body>
103 </html>
```

## User Interface

Shopify [Sign In](#)

# sign up

Email:

Password:

[Sign in](#)

New to Shopify ?

[Create Account](#)

All right reserved

## **References:**

- <https://www.javatpoint.com/bootstrap-tutorial>
- <https://www.javatpoint.com/css-tutorial>
- <https://www.w3schools.com/js/default.asp>
- <https://www.codecademy.com/learn/paths/web-development>









