PROGRAMS

Week-1. Write a program to create a simple webpage using HTML.

```
<!DOCTYPE html>
<html>
<body>

<h1>My First Heading</h1>

<p>My first paragraph.</p>

</body>
</html>
```

OUTPUT:

My First Heading

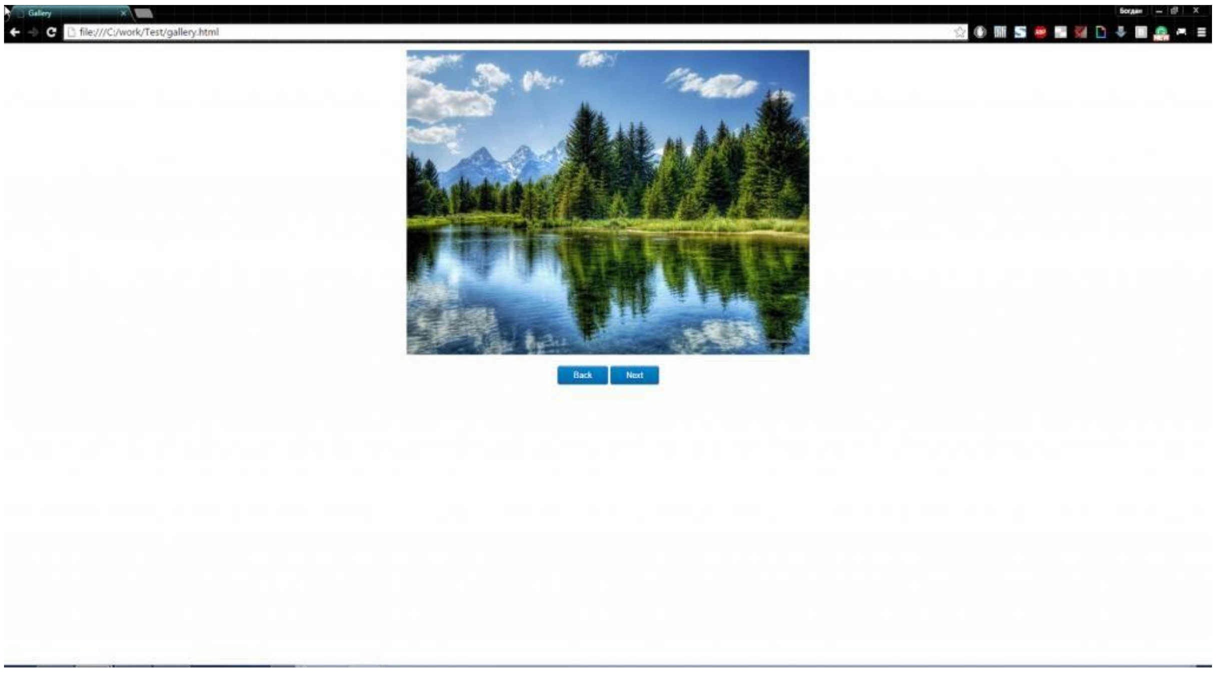
My first paragraph.

Week-2. Write a program to create a website using HTML CSS and JavaScript?

```
<!DOCTYPE html>
<html lang="en">

<head>
   <meta charset="UTF-8">
   <title>Collecting Data</title>
   <script src=
"https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
   </script>

   <link rel="stylesheet" href=
"https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css"
      integrity=
"sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xX
r2"
      crossorigin="anonymous">
</head>

<body class="container" style="margin-top: 50px;
   width: 50%; height:auto;">

   <h2 class="text-primary" style=
      "margin-left: 15px; margin-bottom: 10px">
      Hey There,Help Us In Collecting Data
   </h2>

   <form class="container" id="contactForm">
      <div class="card">
         <div class="card-body">
            <div class="form-group">
               <label for="exampleFormControlInput1">
                  Enter Your Name
               </label>

               <input type="text" class="form-control"
               id="name" placeholder="Enter your name">
```

```
                </div>

                <div class="form-group">
                    <label  for="exampleFormControlInput1">
                        Email address
                    </label>

                    <input type="email" class="form-control"
                    id="email"  placeholder="name@example.com">
                </div>
            </div>
            <button type="submit" class="btn btn-primary"
                style="margin-left: 15px; margin-top: 10px">
                Submit
            </button>
        </div>
    </form>

    <script src=
"https://www.gstatic.com/firebasejs/3.7.4/firebase.js">
    </script>

    <script>
        var firebaseConfig = {
            apiKey: "Use Your Api Key Here",
            authDomain: "Use Your authDomain Here",
            databaseURL: "Use Your databaseURL Here",
            projectId: "Use Your projectId Here",
            storageBucket: "Use Your storageBucket Here",
            messagingSenderId: "Use Your messagingSenderId Here",
            appId: "Use Your appId Here"
        };

        firebase.initializeApp(firebaseConfig);

        var messagesRef = firebase.database()
            .ref('Collected Data');

        document.getElementById('contactForm')
```

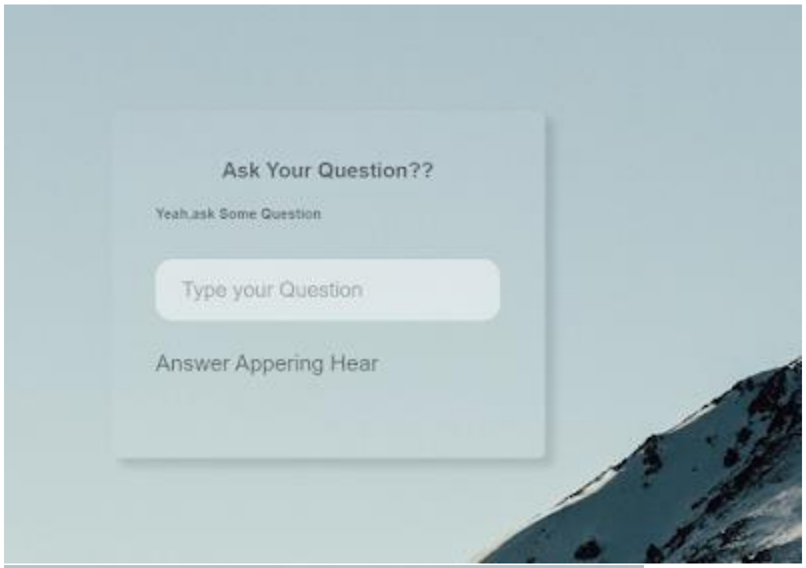
```
            .addEventListener('submit', submitForm);

        function submitForm(e) {
            e.preventDefault();

            // Get values
            var name = getInputVal('name');
            var email = getInputVal('email');

            saveMessage(name, email);
            document.getElementById('contactForm').reset();
        }

        // Function to get get form values
        function getInputVal(id) {
            return document.getElementById(id).value;
        }

        // Save message to firebase
        function saveMessage(name, email) {
            var newMessageRef = messagesRef.push();
            newMessageRef.set({
                name: name,
                email: email,
            });
        }
    </script>
</body>

</html>
```
Output:



Week-3. Write a program to build a Chat module using HTML CSS and JavaScript?

```
<div class="container">
  <img src="/w3images/bandmember.jpg" alt="Avatar">
  <p>Hello. How are you today?</p>
  <span class="time-right">11:00</span>
</div>

<div class="container darker">
  <img src="/w3images/avatar_g2.jpg" alt="Avatar" class="right">
  <p>Hey! I'm fine. Thanks for asking!</p>
  <span class="time-left">11:01</span>
</div>

<div class="container">
  <img src="/w3images/bandmember.jpg" alt="Avatar">
  <p>Sweet! So, what do you wanna do today?</p>
  <span class="time-right">11:02</span>
</div>

<div class="container darker">
  <img src="/w3images/avatar_g2.jpg" alt="Avatar" class="right">
  <p>Nah, I dunno. Play soccer.. or learn more coding perhaps?</p>
  <span class="time-left">11:05</span>
</div>
/* Chat containers */
.container {
  border: 2px solid #dedede;
  background-color: #f1f1f1;
  border-radius: 5px;
  padding: 10px;
  margin: 10px 0;
}

/* Darker chat container */
.darker {
  border-color: #ccc;
  background-color: #ddd;
}

/* Clear floats */
.container::after {
  content: "";
  clear: both;
  display: table;
}

/* Style images */
.container img {
  float: left;
  max-width: 60px;
  width: 100%;
  margin-right: 20px;
  border-radius: 50%;
}
```

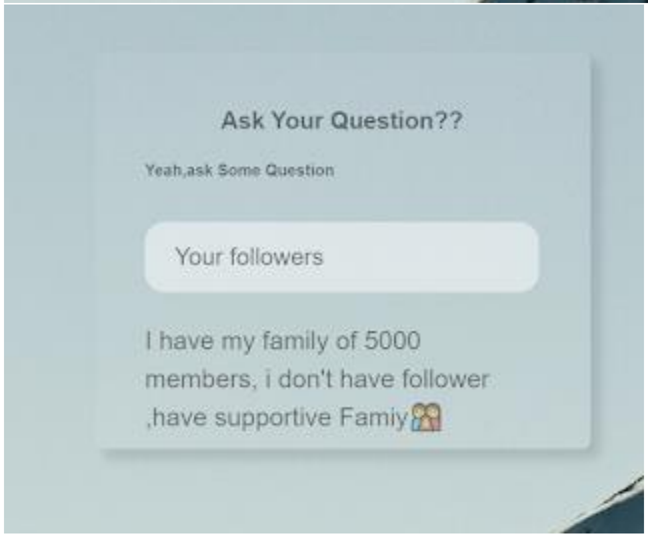
```css
/* Style the right image */
.container img.right {
  float: right;
  margin-left: 20px;
  margin-right:0;
}

/* Style time text */
.time-right  {
  float:  right;
  color: #aaa;
}

/* Style time text */
.time-left {
  float: left;
  color: #999;
}
```


Ask Your Question??

Yeah,ask Some Question

Type your Question

Answer Appering Hear


Ask Your Question??

Yeah,ask Some Question

Your followers

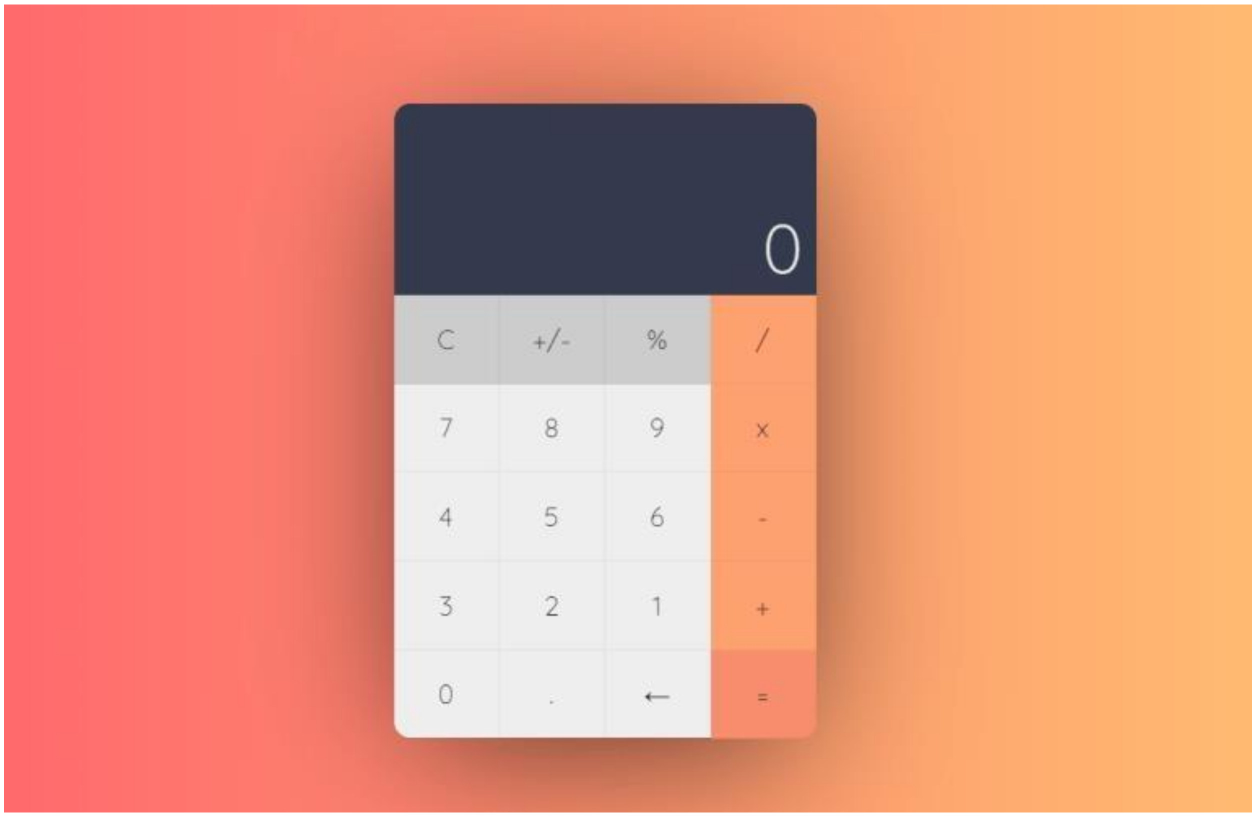
I have my family of 5000 members, i don't have follower ,have supportive Famiy🧑‍🤝‍🧑

Week-4. Write a program to create a simple calculator Application using React JS

```
class App extends Component {
constructor() {
super()
this.state = { operations: [] }
}
.....
}
render() {
   return (
     <div className="App">
       <Display data={this.state.operations} />
       <Buttons>
         <Button onClick={this.handleClick} label="C" value="clear" />
         <Button onClick={this.handleClick} label="7" value="7" />
         <Button onClick={this.handleClick} label="4" value="4" />
         <Button onClick={this.handleClick} label="1" value="1" />
         <Button onClick={this.handleClick} label="0" value="0" />         <Button
onClick={this.handleClick} label="/" value="/" />
         <Button onClick={this.handleClick} label="8" value="8" />
         <Button onClick={this.handleClick} label="5" value="5" />
         <Button onClick={this.handleClick} label="2" value="2" />
         <Button onClick={this.handleClick} label="." value="." />         <Button
onClick={this.handleClick} label="x" value="*" />
         <Button onClick={this.handleClick} label="9" value="9" />
         <Button onClick={this.handleClick} label="6" value="6" />
         <Button onClick={this.handleClick} label="3" value="3" />
         <Button label="" value="null" />         <Button onClick={this.handleClick}
label="-" value="-" />
         <Button onClick={this.handleClick} label="+" size="2" value="+" />
         <Button onClick={this.handleClick} label="=" size="2" value="equal" />
       </Buttons>
     </div>
   )
class Buttons extends Component {
render() {
return <div className="Buttons"> {this.props.children} </div>
```

```
}
} class Button extends Component {
  render() {
    return (
      <div
        onClick={this.props.onClick}
        className="Button"
        data-size={this.props.size}
        data-value={this.props.value}
      >
        {this.props.label}
      </div>
    )
  }
}
class Display extends Component {
  render() {
    const string = this.props.data.join('')
    return <div className="Display"> {string} </div>
  }
}
handleClick = e => {
    const value = e.target.getAttribute('data-value')
    switch (value) {
      case 'clear':
        this.setState({
          operations: [],
        })
        break
      case 'equal':
        this.calculateOperations()
        break
      default:
        const newOperations = update(this.state.operations, {
          $push: [value],
        })
        this.setState({
          operations: newOperations,
        })
        break
    }


calculateOperations = () => {
    let result = this.state.operations.join('')
    if (result) {
      result = math.eval(result)
      result = math.format(result, { precision: 14 })
      result = String(result)
      this.setState({
        operations: [result],
      })
    }
  }
```

OUTPUT:



Week-5. Write a program to create a voting application using React JS

```
CREATE
OR REPLACE VIEW "public"."poll_results" AS
SELECT
  poll.id AS poll_id,
o.option_id,
count(*) AS votes
FROM
  (
    (
      SELECT
        vote.option_id,
      option.poll_id,
      option.text
      FROM
        (
          vote
          LEFT JOIN option ON ((option.id = vote.option_id))
        )
    ) o
    LEFT JOIN poll ON ((poll.id = o.poll_id))
  )
GROUP BY
  poll.question,
o.option_id,
poll.id;
CREATE
OR REPLACE VIEW "public"."online_users" AS
SELECT
  count(*) AS count
FROM
  "user"
WHERE
(
    "user".last_seen_at > (now() - '00:00:15' :: interval)
  );
import { ApolloClient, HttpLink, InMemoryCache, split } from "@apollo/client";
import { GraphQLWsLink } from '@apollo/client/link/subscriptions';
import { createClient } from "graphql-ws";
import { getMainDefinition } from "@apollo/client/utilities";
const GRAPHQL_ENDPOINT = "realtime-poll-example.hasura.app";

const scheme = (proto) =>
  window.location.protocol === "https:" ? `${proto}s` : proto;

const wsURI = `${scheme("ws")}://${GRAPHQL_ENDPOINT}/v1/graphql`;
const httpURL = `${scheme("https")}://${GRAPHQL_ENDPOINT}/v1/graphql`;
const splitter = ({ query }) => {
  const { kind, operation } = getMainDefinition(query) || {};
  const isSubscription =
    kind === "OperationDefinition" && operation === "subscription";
  return isSubscription;
};
const cache = new InMemoryCache();
const options = { reconnect: true };

const wsLink = new GraphQLWsLink(createClient({ url: wsURI,
connectionParams: { options } }));
const httpLink = new HttpLink({ uri: httpURL });
const link = split(splitter, wsLink, httpLink);
const client = new ApolloClient({ link, cache });
```

output:

Week-6. Write a program to create and Build a Password Strength Check using Jquery.

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
<script src="CheckPasswordStrength.js"></script>
<link href="CheckPasswordStrength.css" rel="stylesheet" />
```

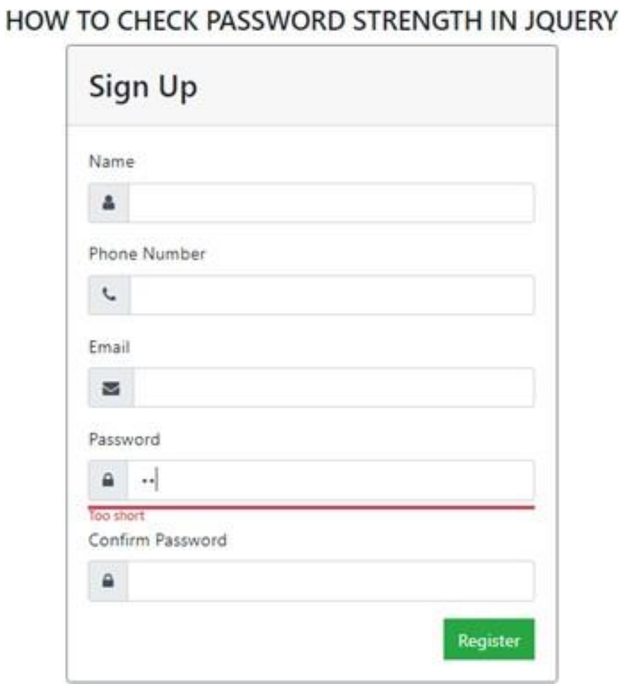
```
$(document).ready(function () {
    $('#txtPassword').keyup(function () {
        $('#strengthMessage').html(checkStrength($('#txtPassword').val()))
    })
    function checkStrength(password) {
        var strength = 0
        if (password.length < 6) {
            $('#strengthMessage').removeClass()
            $('#strengthMessage').addClass('Short')
            return 'Too short'
        }
        if (password.length > 7) strength += 1
        // If password contains both lower and uppercase characters, increase stren
gth value.
        if (password.match(/([a-z].*[A-Z])|([A-Z].*[a-z])/)) strength += 1
        // If it has numbers and characters, increase strength value.
        if (password.match(/([a-zA-Z])/) && password.match(/([0-
9])/)) strength += 1
        // If it has one special character, increase strength value.
        if (password.match(/([!,%,&,@,#,$,^,*,?,_,~])/)) strength += 1
        // If it has two special characters, increase strength value.
        if (password.match(/(.*[!,%,&,@,#,$,^,*,?,_,~].*[!,%,&,@,#,$,^,*,?,_,~])/)
) strength += 1
        // Calculated strength value, we can return messages
        // If value is less than 2
        if (strength < 2) {
            $('#strengthMessage').removeClass()
            $('#strengthMessage').addClass('Weak')
            return 'Weak'
        } else if (strength == 2) {
            $('#strengthMessage').removeClass()
            $('#strengthMessage').addClass('Good')
            return 'Good'
        } else {
            $('#strengthMessage').removeClass()
            $('#strengthMessage').addClass('Strong')
            return 'Strong'
        }
    }
});
.Short {
    width: 100%;
    background-color: #dc3545;
    margin-top: 5px;
    height: 3px;
    color: #dc3545;
    font-weight: 500;
    font-size: 12px;
}
.Weak {
    width: 100%;
    background-color: #ffc107;
    margin-top: 5px;
    height: 3px;
    color: #ffc107;
    font-weight: 500;
    font-size: 12px;
}
.Good {
    width: 100%;
    background-color: #28a745;
    margin-top: 5px;
    height: 3px;
    color: #28a745;
    font-weight: 500;
    font-size: 12px;
}
.Strong {
    width: 100%;
    background-color: #d39e00;
    margin-top: 5px;
    height: 3px;
    color: #d39e00;
    font-weight: 500;
    font-size: 12px;
}
```

```
<body>
  <form id="form1" runat="server">
```

```
    <div class="container py-3">
        <h4 class="text-center text-
uppercase">How to check password strength in jquery</h4>
        <div class="row">
            <div class="col-md-12">
                <div class="row">
                    <div class="col-md-6 mx-auto">
                        <div class="card border-secondary">
                            <div class="card-header">
                                <h3 class="mb-0 my-2">Sign Up</h3>
                            </div>
                            <div class="card-body">
                                <div class="form-group">
                                    <label>Name</label>
                                    <div class="input-group">
                                        <div class="input-group-prepend">
                                            <span class="input-group-text"><i class="fa fa-
user"></i></span>
                                        </div>
                                        <asp:TextBox ID="txtFirstName" runat="server" Css
Class="form-control"></asp:TextBox>
                                    </div>
                                </div>
                                <div class="form-group">
                                    <label>Phone Number</label>
                                    <div class="input-group">
                                        <div class="input-group-prepend">
                                            <span class="input-group-text"><i class="fa fa-
phone"></i></span>
                                        </div>
                                        <asp:TextBox ID="txtPhoneNumber" runat="server"
CssClass="form-control"></asp:TextBox>
                                    </div>
                                </div>
                                <div class="form-group">
                                    <label>Email</label>
                                    <div class="input-group">
                                        <div class="input-group-prepend">
```

```
                                                <span class="input-group-text"><i class="fa fa-
envelope"></i></span>
                                            </div>
                                            <asp:TextBox ID="txtEmail" runat="server" CssClass
="form-control"></asp:TextBox>
                                        </div>
                                    </div>
                                    <div class="form-group">
                                        <label>Password</label>
                                        <div class="input-group">
                                            <div class="input-group-prepend">
                                                <span class="input-group-text"><i class="fa fa-
lock"></i></span>
                                            </div>
                                            <asp:TextBox ID="txtPassword" runat="server" Text
Mode="Password" CssClass="form-control"></asp:TextBox>
                                        </div>
                                        <div id="strengthMessage"></div>
                                    </div>
                                    <div class="form-group">
                                        <label>Confirm Password</label>
                                        <div class="input-group">
                                            <div class="input-group-prepend">
                                                <span class="input-group-text"><i class="fa fa-
lock"></i></span>
                                            </div>
                                            <asp:TextBox ID="txtConfirmPassword" runat="serv
er" TextMode="Password" CssClass="form-control"></asp:TextBox>
                                        </div>
                                    </div>
                                    <div class="form-group">
                                        <button type="submit" class="btn btn-success float-
right rounded-0">Register</button>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
```

```
            </div>
        </div>
    </form>
</body>
```



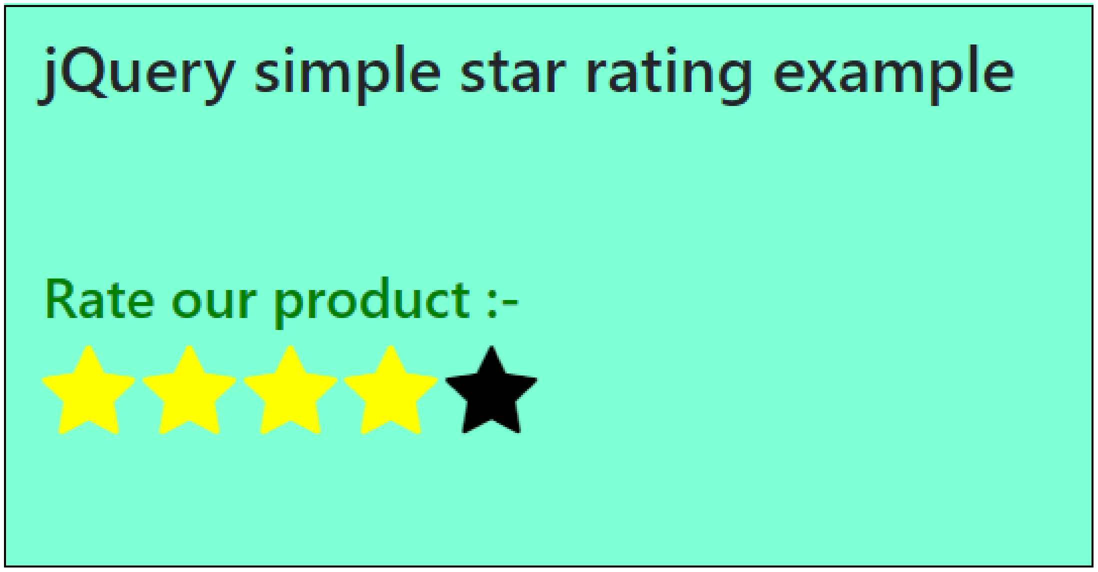
Week-7. Write a program to create and Build a star rating system using Jquery.

```
$(document).ready(function() {
  $("#st1").click(function() {
     $(".fa-star").css("color", "black");
     $("#st1").css("color", "yellow");

  });
        <!DOCTYPE html>
        <html lang = "en">
```

```
<head>
   <meta charset = "UTF-8">
   <meta name = "viewport" content="width=device-width, initial-
scale=1.0">
   <link rel = "stylesheet" href = "https://cdnjs.cloudflare.com/ajax/libs/twitter-
bootstrap/4.4.1/css/bootstrap.min.css">
   <script src = "https://cdnjs.cloudflare.com/ajax/libs/jquery/3.4.1/jquery.js">
</script>
   <script src = "https://cdnjs.cloudflare.com/ajax/libs/twitter-
bootstrap/4.4.1/js/bootstrap.min.js"> </script>
   <link rel = "stylesheet" href = "https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
   <script src = "https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.j
s"></script>
   <title> jQuery simple star rating example </title>
   <style>
   body {
      background-color: aquamarine;
      margin : 0px;
   }
   .fa-star {
      font-size : 50px;
      align-content: center;
   }
   .container {
      height: 100px;
      width: 600px;
      margin: auto;
   }
   </style>
</head>
<body>
   <div class = "container">
```

```
     <h2 style="margin-top: 50px;">jQuery simple star rating example</h2>
    <div class = "con">
     <h3 style = "margin-top : 80px; color: green;">Rate our product :-</h3>
     <i class = "fa fa-star" aria-hidden = "true" id = "st1"></i>
    <i class = "fa fa-star" aria-hidden = "true" id = "st2"></i>
    <i class = "fa fa-star" aria-hidden = "true" id = "st3"></i>
    <i class = "fa fa-star" aria-hidden = "true" id = "st4"></i>
    <i class = "fa fa-star" aria-hidden = "true" id = "st5"></i>
    </div>
  </div>
  <script>
     $(document).ready(function() {
      $("#st1").click(function() {
         $(".fa-star").css("color", "black");
         $("#st1").css("color", "yellow");

      });
      $("#st2").click(function() {
         $(".fa-star").css("color", "black");
         $("#st1, #st2").css("color", "yellow");

      });
      $("#st3").click(function() {
         $(".fa-star").css("color", "black")
         $("#st1, #st2, #st3").css("color", "yellow");

      });
      $("#st4").click(function() {
         $(".fa-star").css("color", "black");
         $("#st1, #st2, #st3, #st4").css("color", "yellow");

      });
      $("#st5").click(function() {
```

```
                $(".fa-star").css("color", "black");
                $("#st1, #st2, #st3, #st4, #st5").css("color", "yellow");

            });
        });
    </script>
</body>
</html>
```

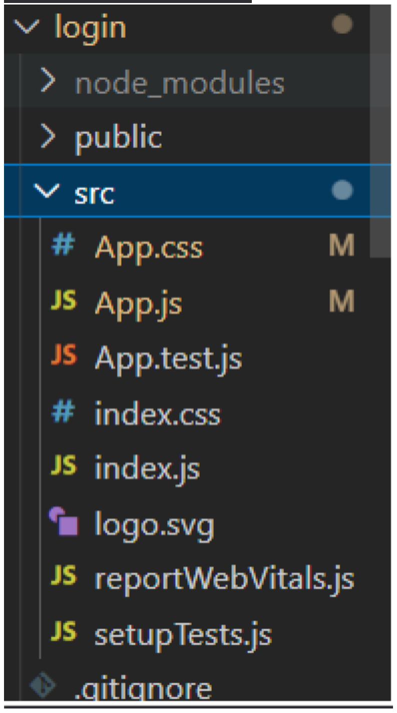

jQuery simple star rating example

Rate our product :-

Week-8. Create a Simple Login form using React js

Now we are creating a login form which is a very important in any application or website as you know if open any website or application you will get a message to login if you click that you will be redirected to login page in this week we will be creating login page

File Structure:-



```
login
  node_modules
  public
  src
    App.css        M
    App.js         M
    App.test.js
    index.css
    index.js
    logo.svg
    reportWebVitals.js
    setupTests.js
  .gitignore
```

--App.js-------------------------------------

```
import './App.css';

import React, { useState } from "react";

import ReactDOM from "react-dom";


function App() {
```

```
// React States
const [errorMessages, setErrorMessages] = useState({});
const [isSubmitted, setIsSubmitted] = useState(false);

// User Login info
const database = [
  {
    username: "user1",
    password: "pass1"
  },
  {
    username: "user2",
    password: "pass2"
  }
];

const errors = {
  uname: "invalid username",
  pass: "invalid password"
};

const handleSubmit = (event) => {
   //Prevent page reload
   event.preventDefault();

   var { uname, pass } = document.forms[0];

   // Find user login info
   const userData = database.find((user) => user.username === uname.value);

   // Compare user info
   if (userData) {
     if (userData.password !== pass.value) {
       // Invalid password
       setErrorMessages({ name: "pass", message: errors.pass });
     } else {
       setIsSubmitted(true);
     }
   } else {
     // Username not found
     setErrorMessages({ name: "uname", message: errors.uname });
   }
 };
```

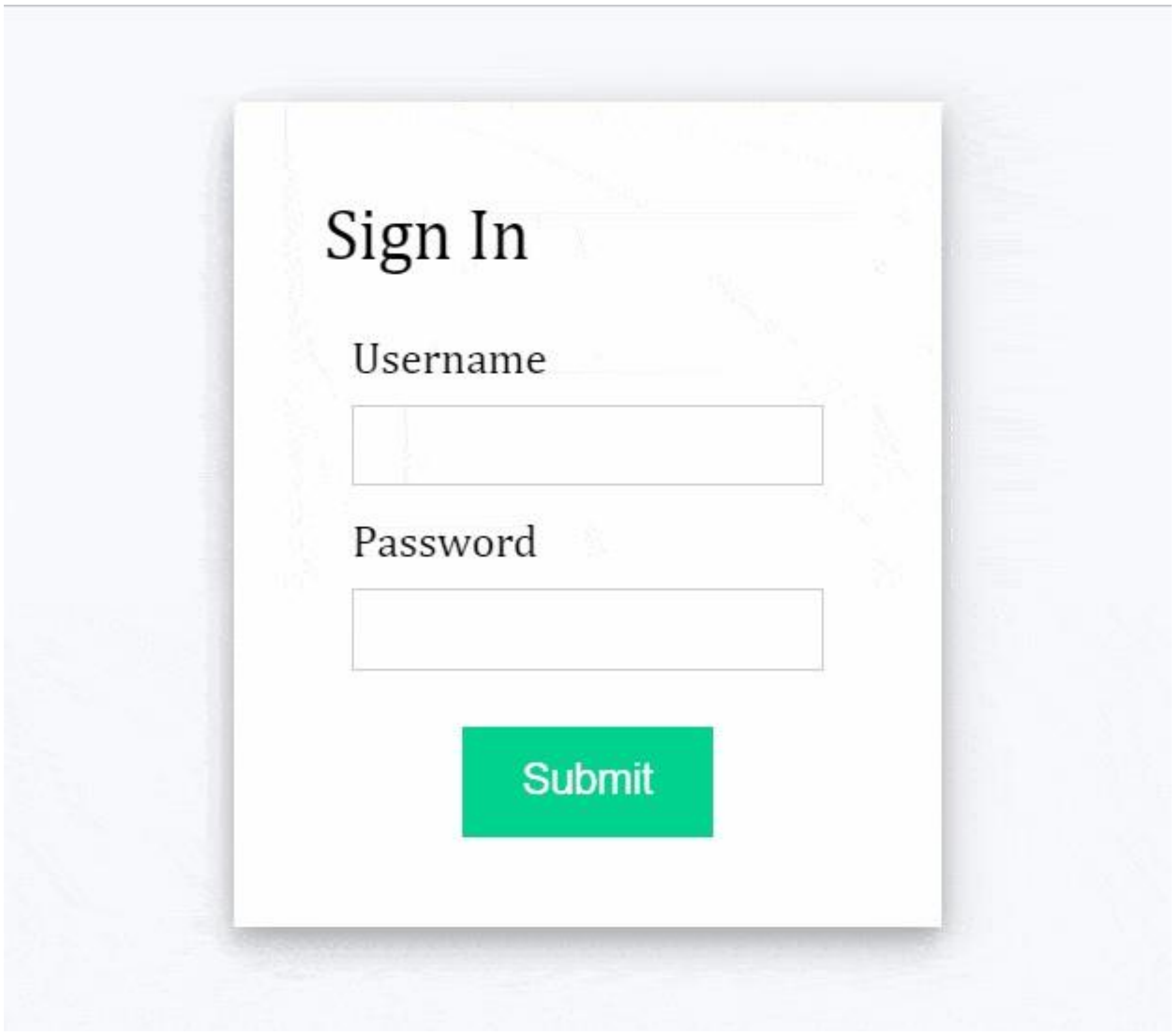
```
// Generate JSX code for error message
const renderErrorMessage = (name) =>
name === errorMessages.name && (
    <div className="error">{errorMessages.message}</div>
  );

// JSX code for login form
const renderForm = (
  <div className="form">
    <form onSubmit={handleSubmit}>
      <div className="input-container">
        <label>Username </label>
        <input type="text" name="uname" required />
        {renderErrorMessage("uname")}
      </div>
      <div className="input-container">
        <label>Password </label>
        <input type="password" name="pass" required />
        {renderErrorMessage("pass")}
      </div>
      <div className="button-container">
        <input type="submit" />
        </div>
      </form>
    </div>
  );

  return (
    <div className="app">
      <div className="login-form">
        <div className="title">Sign In</div>
        {isSubmitted ? <div>User is successfully logged in</div> : renderForm}
      </div>
    </div>
  );
}

export default App;
```

----------------Now Create a App.css file in same folder----------------

App.css

```
.app {
  font-family: sans-serif;
  display: flex;
  align-items: center;
  justify-content: center;
  flex-direction: column;
  gap: 20px;
  height: 100vh;
  font-family: Cambria, Cochin, Georgia, Times, "Times New Roman", serif;
  background-color: #f8f9fd;
}

input[type="text"],
input[type="password"] {
height: 25px;
  border: 1px solid rgba(0, 0, 0, 0.2);
}

input[type="submit"] {
  margin-top: 10px;
  cursor: pointer;
  font-size: 15px;
  background: #01d28e;
  border: 1px solid #01d28e;
  color: #fff;
  padding: 10px 20px;
}

input[type="submit"]:hover {
  background: #6cf0c2;
}

.button-container {
  display: flex;
  justify-content: center;
}

.login-form {
  background-color: white;
  padding: 2rem;
  box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);
}

.list-container {
  display: flex;
}
```

```css
.error {
  color: red;
  font-size: 12px;
}

.title {
  font-size: 25px;
  margin-bottom: 20px;
}

.input-container {
  display: flex;
  flex-direction: column;
  gap: 8px;
  margin: 10px;
}
```

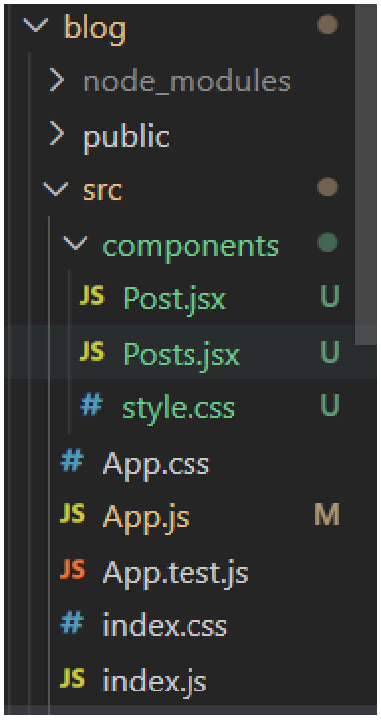

Sign In
Username
Password
Submit

Week-9. Create a blog in React js

In this week we are going to create a blog website using react js

We have mainly 3 pages
1.App.js
2.Post.js
3.Posts.js

This is the Structure of the project



```
blog
  node_modules
  public
  src
    components
      Post.jsx      U
      Posts.jsx     U
      style.css     U
    App.css
    App.js          M
    App.test.js
    index.css
    index.js
```

1. App.js

```
import logo from './logo.svg';
import './App.css';
import Posts from "./components/Posts";
function App() {
  return (
    <div className="main-container">
      <h1 className="main-heading">
        Blog App using React Js
      </h1>
      <Posts />
    </div>
  );
}

export default App;
```

2. Posts.js

```
import React from "react";
import "./style.css";

import Post from "./Post";

const Posts = () => {
  const blogPosts = [
    {
      title: "JAVASCRIPT",
      body: `JavaScript is the world most popular
      lightweight, interpreted compiled programming
      language. It is also known as scripting
      language for web pages. It is well-known for
      the development of web pages, many non-browser
      environments also use it. JavaScript can be
      used for Client-side developments as well as
      Server-side developments`,
      author: "Nishant Singh ",
      imgUrl:
        "https://media.geeksforgeeks.org/img-practice/banner/diving-into-excel-
thumbnail.png",
    },
    {
      title: "Data Structure ",
      body: `There are many real-life examples of
      a stack. Consider an example of plates stacked
      over one another in the canteen. The plate
      which is at the top is the first one to be
      removed, i.e. the plate which has been placed
      at the bottommost position remains in the
      stack for the longest period of time. So, it
      can be simply seen to follow LIFO(Last In
      First Out)/FILO(First In Last Out) order.`,
      author: "Suresh Kr",
      imgUrl:
        "https://media.geeksforgeeks.org/img-practice/banner/coa-gate-2022-
thumbnail.png",
    },
    {
      title: "Algorithm",
      body: `The word Algorithm means “a process
      or set of rules to be followed in calculations
      or other problem-solving operations”. Therefore
      Algorithm refers to a set of rules/instructions
      that step-by-step define how a work is to be
      executed upon in order to get the expected
      results. `,
      author: "Monu Kr",
      imgUrl:
        "https://media.geeksforgeeks.org/img-practice/banner/google-test-series-
thumbnail.png",
    },
    {
      title: "Computer Network",
      body: `An interconnection of multiple devices,
      also known as hosts, that are connected using
      multiple paths for the purpose of sending/
      receiving data media. Computer networks can
      also include multiple devices/mediums which
      help in the communication between two different
      devices; these are known as Network devices
      and include things such as routers, switches,
      hubs, and bridges. `,
      author: "Sonu Kr",
      imgUrl:
        "https://media.geeksforgeeks.org/img-practice/banner/cp-maths-java-
thumbnail.png",
    },
  ];

  return (
    <div className="posts-container">
      {blogPosts.map((post, index) => (
        <Post key={index} index={index} post={post} />
      ))}
    </div>
  );
};

export default Posts;
```

3.Post.js

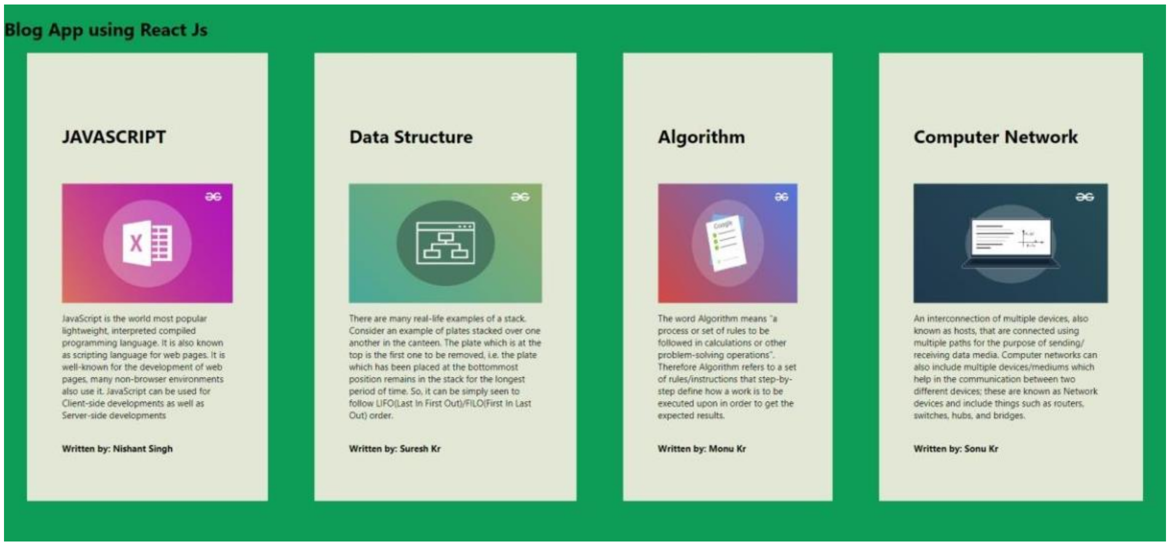
```
import React from "react";
import "./style.css";
const Post = ({ post: { title, body,
imgUrl, author }, index }) => {
return (
    <div className="post-container">
      <h1 className="heading">{title}</h1>
      <img className="image" src={imgUrl} alt="post" />
      <p>{body}</p>
      <div className="info">
        <h4>Written by: {author}</h4>
      </div>
    </div>
  );
};

export default Post;
```

Now we will style the project

Style.css in componenets folder

```
body {
    background-color: #0e9d57;
}
.posts-container {
    display: flex;
    justify-content: center;
    align-items: center;
}
.post-container {
    background: #e2e8d5;
    display: flex;
    flex-direction: column;
    padding: 3%;
    margin: 0 2%;
    height: 40%;
}
.heading {
    height: 126px;
    text-align: center;
    display: flex;
    align-items: center;
}
.image {
    width: 100%;
    height: 210px;
}
```

OUTPUT



Blog App using React Js

JAVASCRIPT

JavaScript is the world most popular lightweight, interpreted compiled programming language. It is also known as scripting language for web pages. It is well-known for the development of web pages, many non-browser environments also use it. JavaScript can be used for Client-side developments as well as Server-side developments

Written by: Nishant Singh

Data Structure

There are many real-life examples of a stack. Consider an example of plates stacked over one another in the canteen. The plate which is at the top is the first one to be removed, i.e. the plate which has been placed at the bottommost position remains in the stack for the longest period of time. So, it can be simply seen to follow LIFO(Last In First Out)/FILO(First In Last Out) order.

Written by: Suresh Kr

Algorithm

The word Algorithm means "a process or set of rules to be followed in calculations or other problem-solving operations". Therefore Algorithm refers to a set of rules/instructions that step-by-step define how a work is to be executed upon in order to get the expected results.

Written by: Monu Kr

Computer Network

An interconnection of multiple devices, also known as hosts, that are connected using multiple paths for the purpose of sending/receiving data media. Computer networks can also include multiple devices/mediums which help in the communication between two different devices; these are known as Network devices and include things such as routers, switches, hubs, and bridges.

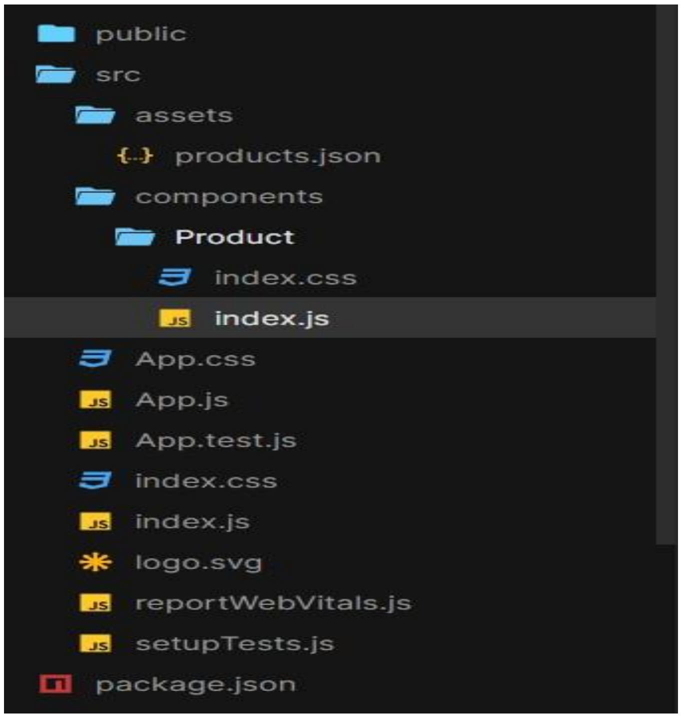
Written by: Sonu Kr

Week-10. Create a project on Grocery delivery application

Assume this project is for a huge online departmental store. Assume that they have a myriad of grocery items at their godown. All items must be listed on the website, along with their quantities and prices.Users must be able to sign up and purchase groceries. The system should present him with delivery slot options, and the user must be able to choose his preferred slot. Users must then be taken to the payment page where he makes the payment with his favorite method.

This week will have many pages like Header,footer,categories and app.jsx

File Structure:



```
public
src
  assets
    products.json
  components
    Product
      index.css
      index.js
  App.css
  App.js
  App.test.js
  index.css
  index.js
  logo.svg
  reportWebVitals.js
  setupTests.js
package.json
```

App.jsx

```
import "./index.css"
import "./App.css"
import products from "./assets/products.json"
import Product from "./components/Product";
```

```
export default function App() {
  return (
      <div className={"container"}>
        <main className={"main"}>
          <h1>
            E-Commerce in React and SnipCart
          </h1>

          <div className={"grid"}>
            {
              products.map((product, i) => <Product {...product} key={i}/>)
            }
          </div>
        </main>
        <div
            id="snipcart"
            data-api-
key="NWMwZWNkZGMtZjU2ZS00YzM3LWFlZjYtMmM5Zjk0MWViZDcxNj
M3Njg0OTY0ODg5NTk4MTM3" hidden
        >
        </div>
      </div>
  );
}
```

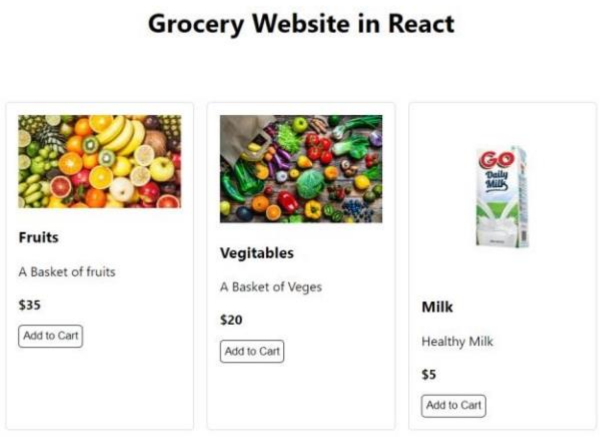
Components/Product/index.js

```
import "./index.css";

export default function Product(props) {
    const {id, imageUrl, name, description, price} = props

    return (
        <div
            key={id}
            className={"product"}
        >
            <img
                src={imageUrl}
                alt={`Image of ${name}`}
                className={"image-product"}
            />
            <h3>{name}</h3>
            <p>{description}</p>
            <span>${price}</span>
            <div>
                <button
                  className="snipcart-add-item"
                  data-item-id={id}
                  data-item-image={imageUrl}
                  data-item-name={name}
                  data-item-url="/"
                  data-item-price={price}
                >
                  Add to Cart
                </button>
            </div>
        </div>
    );
}
```

Assets/products.json

```
[
  {
    "id": "t-shirt",
    "name": "Fruits",
    "price": 35.0,
    "imageUrl":                                        "https://www.lalpathlabs.com/blog/wp-
content/uploads/2019/01/Fruits-and-Vegetables.jpg",
    "description": "A Basket of fruits",
    "url": "/api/products/halfmoon"
  },
  {
    "id": "wallet",
    "name": "Vegitables",
    "price": 20.0,
    "imageUrl": "https://img.freepik.com/free-photo/bottom-view-fruits-vegetables-radish-cherry-tomatoes-persimmon-tomatoes-kiwi-cucumber-apples-red-cabbage-parsley-quince-aubergines-blue-table_140725-146174.jpg",
    "description": "A Basket of Veges",
    "url": "/api/products/wallet"
  },
  {
    "id": "cup",
    "name": "Milk",
    "price": 5.0,
    "imageUrl": "https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSeujHMy6OLRZHTpsrUMVLsHyio1mZiZI4fMQ&usqp=CAU",
    "description": "Healthy Milk",
    "url": "/api/products/veiltail"
  }
]
```

Output


Grocery Website in React

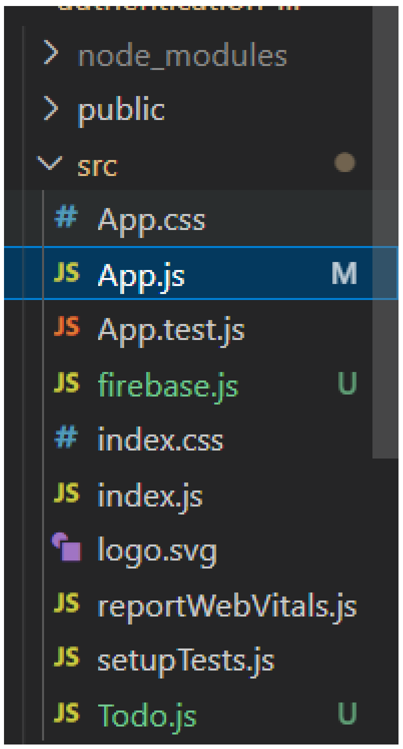
Fruits
A Basket of fruits
$35
Add to Cart

Vegitables
A Basket of Veges
$20
Add to Cart

Milk
Healthy Milk
$5
Add to Cart

Week-11. Connecting our TODO React js Project with Firebase
We all can create applications but in realtime when we are building an application we have to store the user data some ware now a days best way to store is Firebase which can be integrated in react app
In this week we will learn how to connect our application to firebase

File Structure:



After creating the project make sure to install firebase dependencies:

Install it using npm install firebase

-Now we have mainly 3 pages
1.firebase.js
2.App.js
3.Todo.js

-.In firebase.js we will establish connection to our app and firebase
-In Todo,js we will write the code
And we will import it in to the App.js file

firebase.js

```
import firebase from 'firebase/compat/app';
import 'firebase/compat/auth';
import 'firebase/compat/firestore';

const firebaseApp = firebase.initializeApp({
    apiKey: "",
    authDomain: "",
    projectId: '',
    storageBucket: '',
    messagingSenderId: "",
    appId: '':,
    measurementId: ""
});

const db = firebaseApp.firestore();

export default db;
```

Note Replace the highlighted code with your firebase connection compoenents

You can get you own keys from firebase account for more details Take the
Reference of below video

https://www.youtube.com/watch?v=ad6IavyAHsQ

Todo.js

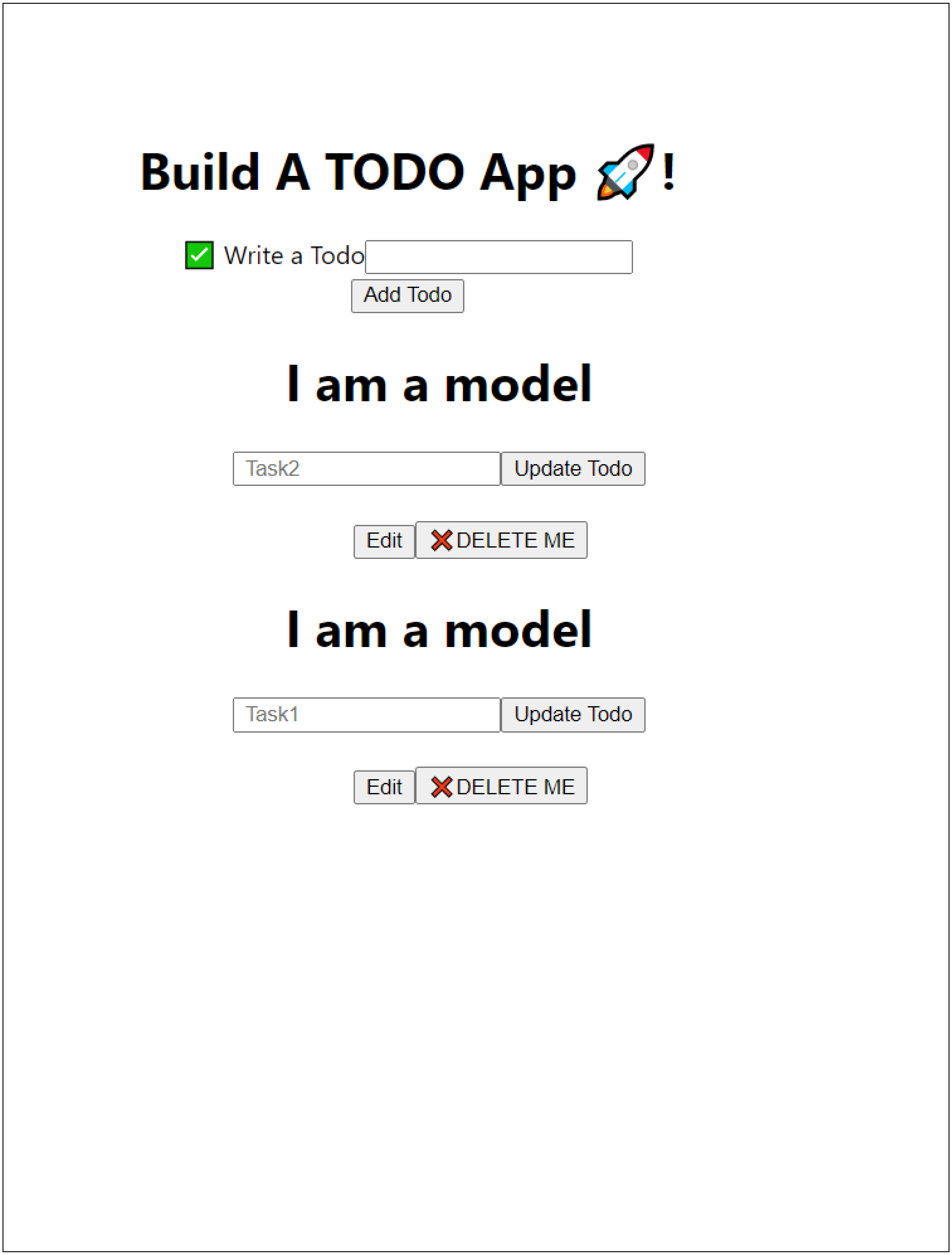
```
import { ListItem, List, ListItemAvatar, ListItemText, Button, Modal,
makeStyles } from '@material-ui/core'
import './Todo.css';
import React, { useState } from 'react';
import db from './firebase'



function Todo(props) {
  const [open, setOpen] = useState(false);
  const [input, setInput] = useState(props.todo.todo);

  const handleOpen = () => {
    setOpen(true)
  };

  const updateTodo = () => {
    // update to do with the new input text

    db.collection('todos').doc(props.todo.id).set({
      todo: input
    }, { merge: true })

    setOpen(false);
  }

  return (
    <>
      <div
        open={open}
        onClose={e => setOpen(false)}
      >
        <div >
```

```
                    <h1>I am a model</h1>
                    <input     placeholder={props.todo.todo}     value={input}
onChange={event => setInput(event.target.value)} />
                    <button onClick={updateTodo}>Update Todo</button>
                  </div>
                </div>
                <ul className='todo_list'>
                  <li>
                    <li     primary={props.todo.todo}     secondary='Dummy
deadline ⏰' />
                  </li>
                  <button onClick={e => setOpen(true)}>Edit</button>
                  <button                    onClick={event                    =>
db.collection('todos').doc(props.todo.id).delete()}> ❌ DELETE
ME</button>
                </ul>
              </>
          )
      }

      export default Todo
```

Now the last file App.js

```
import React, { useEffect, useState } from 'react';
import './App.css';
import Todo from './Todo';
import db from './firebase'
import firebase from 'firebase/compat/app';
import 'firebase/compat/auth';
import 'firebase/compat/firestore';

function App() {
  const [todos, setTodos] = useState([]);
  const [input, setInput] = useState('');

// when the upload, we need to listen to the database and fetch new todos as they get
added/remove
useEffect(() => {
  // This code here... fires when the app.js lodes
  db.collection('todos').orderBy('timestamp', 'desc').onSnapshot(snapshot => {
    // console.log(snapshot.docs.map(doc => doc.data()));
    setTodos(snapshot.docs.map(doc => ({id: doc.id, todo: doc.data().todo})))
  })
}, []);

  const addTodo = (event) => {
    // this will fire off when we click the button
    event.preventDefault(); //will stop the refresh

    db.collection('todos').add({
      todo: input,
      timestamp: firebase.firestore.FieldValue.serverTimestamp()
    })

    setTodos([...todos, input]);
    setInput(' '); // clear up the input after clicking todo
    console.log(todos)
  }

  return (
    <div className="App">
      <h1>Build A TODO App 🚀!</h1>

      <form>

        <form>
          <span>✅ Write a Todo</span>
          <input value={input} onChange={event => setInput(event.target.value)} />
        </form>
    <button disabled={!input} type='submit' onClick={addTodo}
variant="contained" color="primary">Add Todo</button>
   </form>

   <ul>
    {todos.map(todo => (
     <Todo todo={todo}/>
     // <li>{todo}</li>
    ))}

    <li></li>
   </ul>

  </div>
 );
}

export default App;
```

OUTPUT



I am a model

Task2

I am a model

Task1