1. Write code in HTML5 to develop simple webpage.

```
<!DOCTYPE html>
<html lang="en">
<head>
 <title>My Personal welsite</title>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>
<div class="jumbotron text-center">
 <h1>My(Write your Name) First Web Page</h1>
 Your tagline 
</div>
<div class="container">
 <div class="row">
  <div class="col-sm-4">
   <h3>Column 1 (Add your content)</h3>
   Lorem ipsum dolor sit amet, consectetur adipisicing elit...
   Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris...
  </div>
  <div class="col-sm-4">
   <h3>Column 2 (Add your content)</h3>
   Lorem ipsum dolor sit amet, consectetur adipisicing elit...
   Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris...
  </div>
  <div class="col-sm-4">
   <h3>Column 3 (Add your content) </h3>
   Lorem ipsum dolor sit amet, consectetur adipisicing elit...
   Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris...
  </div>
 </div>
</div>
</body>
</html>
```

2. Write CSS5 & HTML5 Code to show Dropdown Menu.

```
<nav class="navbar navbar-inverse">
 <div class="container-fluid">
  <div class="navbar-header">
   <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target="#myNavbar">
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
   </button>
   <a class="navbar-brand" href="#">WebSiteName</a>
  </div>
  <div class="collapse navbar-collapse" id="myNavbar">
   <a routerLink="/Home">Home</a>
    cli class="dropdown">
     <a class="dropdown-toggle" data-toggle="dropdown" href="#">Page 1 <span
class="caret"></span></a>
     <a href="#">Page 1-1</a>
      <a href="#">Page 1-2</a>
      <a href="#">Page 1-3</a>
     <a href="#">Page 2</a>
    <a routerLink="/About" >About</a>
   <a href="#"><span class="glyphicon glyphicon-user"></span> Sign Up</a>
    <a href="#"><span class="glyphicon glyphicon-log-in"></span> Login</a>
   </div>
 </div>
 </nav>
```

- 3. Write HTML5, CSS and Javscript code to Create one-page website having different menu items.
- npm install -g @angular/cli
- ng new my-app
- cd my-app
- ng serve –open

Opens your browser to http://localhost:4200/

app.component.htm

```
<app-navbar></app-navbar></router-outlet></router-outlet>
```

home.component.html

```
home works!
```

<h1>Lorem ipsum, dolor sit amet consectetur adipisicing elit. Rerum, ad? Neque ducimus repellendus enim veniam vel magnam perspiciatis fugit nesciunt?</h1>

<h2>Lorem ipsum dolor sit amet consectetur adipisicing elit. In, aperiam.</h2>

about.component.html

<h1>about works!</h1>

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Consectetur ab natus aperiam, saepe accusantium voluptas dolo

app-routing.module.ts

```
const routes: Routes = [
    { path: 'Home', component: HomeComponent },
    { path: 'About', component: AboutComponent },
];
```

4. Write a program in CSS to show your city with building and moving cars.

Index.html

```
<!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>Moving Cars</title>
  <link rel="stylesheet" href="./style.css">
</head>
<body>
  <div class="moon"></div>
  <div class="skyline">
    <div class="building1-shadow"></div>
    <div class="building1">
       <div class="building-left-half"></div>
       <div class="building-right-half"></div>
    </div>
  </div>
  <div class="road">
    <div class="road-top-half"></div>
    <div class="road-bottom-half"></div>
  </div>
  <div class="car-container">
    <div class="car-top1">
       <div class="window1"></div>
       <div class="window2"></div>
    </div>
    <div class="car-top2">
       <div class="door">
         <div class="door-knob"></div>
       </div>
    </div>
```

```
<div class="car-bottom">
       <div class="wheel1-top"></div>
       <div class="wheel1">
         <div class="wheel-dot1"></div>
         <div class="wheel-dot2"></div>
         <div class="wheel-dot3"></div>
         <div class="wheel-dot4"></div>
       </div>
       <div class="wheel2-top"></div>
       <div class="wheel2">
         <div class="wheel-dot1"></div>
         <div class="wheel-dot2"></div>
         <div class="wheel-dot3"></div>
         <div class="wheel-dot4"></div>
       </div>
    </div>
  </div>
</body>
</html>
Style.css
html {
  box-sizing: border-box;
}
*:before,
*:after {
  box-sizing: inherit;
}
body {
overflow: hidden;
height: 100vh;
background: linear-gradient(180deg, #09283d, #1b415c, #29516c, #6e8ea5, #7cadd0, #7cadd0,
#7cadd0, #7cadd0, #6e8ea5, #3a6583, #1a4461, #09283d);
background-size: 2400% 2400%;
```

```
animation: dayNight 60s ease infinite;
}
@keyframes dayNight {
0% {background-position:25% 0% }
50% {background-position:76% 100% }
100% {background-position:25% 0% }
@keyframes driving {
  0% {
    left: -25%;
  }
  10% {
    bottom: 0%;
  }
  20% {
    transform: scale(0.5) rotateZ(-5deg);
    bottom: 5%
  }
  25% {
    transform: scale(0.5) rotateZ(0deg);
  }
  40% {
    transform: scale(0.5) rotateZ(5deg);
  50% {
    transform: scale(0.5) rotateZ(0deg);
  }
  100% {
    left: 110%;
    bottom: 10%;
    transform: scale(0.5) rotateZ(0deg);
  }
}
@keyframes road-moving {
  100% {
    transform: translate(-2400px);
  }
@keyframes wheelsRotation {
  100% {
```

```
transform: rotate(360deg);
  }
@keyframes moon {
50% {
transform: translateY(-20px);
}
100% {
transform: translate(80px, -140px);
}
@keyframes sun-moon {
from { transform:rotate(0deg); }
to { transform:rotate(360deg); }
}
/* CAR CONTAINER */
.car-container {
  position: absolute;
  bottom: -10%;
  width: 430px;
  height: 300px;
  animation: driving 5s infinite linear;
  transform: scale(0.5);
.car-container:after {
  content: "";
  width: 426px;
  height: 1px;
  margin-top: 88px;
  display: block;
  position: absolute;
  left: -3%;
  z-index: -1;
  bottom: 0;
  box-shadow: 2px -15px 25px 2px #000000;
/* WHEELS */
.wheel1,
.wheel2 {
```

```
width: 120px;
  height: 120px;
  background-color: grey;
  border-radius: 50%;
  border: 20px solid black;
  position: absolute;
  bottom: 0;
  animation: wheelsRotation 1s infinite linear;
}
.wheel1 {
  left: 5%;
}
.wheel1-top,
.wheel2-top {
  bottom: 48px;
  position: absolute;
  width: 106px;
  height: 80px;
  border-radius: 50%;
  z-index: 5;
  box-shadow: 0px 13px 3px 0px rgba(240, 240, 240, 0.53);
  transform: rotateX(180deg);
}
.wheel1-top {
  left: 7%;
}
.wheel2-top {
  right: 7%;
}
.wheel2 {
  right: 5%;
}
.wheel-dot1,
.wheel-dot2 {
  width: 10px;
  height: 25px;
  background-color: black;
  position: absolute;
}
.wheel-dot3,
.wheel-dot4 {
```

```
width: 25px;
  height: 10px;
  background-color: black;
  position: absolute;
.wheel-dot1 {
  top: 10%;
  left: 45%;
.wheel-dot2 {
  bottom: 10%;
  left: 45%;
.wheel-dot3 {
  top: 45%;
  right: 10%;
.wheel-dot4 {
  top: 45%;
  left: 10%;
.door {
  width: 110px;
  height: 100px;
  border: 3px solid #B57A84;
  position: absolute;
  left: 36%;
  top: 16px;
  border-radius: 10% 40% 10% 10%;
}
.door-knob {
  width: 30px;
  height: 14px;
  background-color: #E8E6E6;
  border-radius: 30%;
  position: absolute;
  left: 20%;
  top: 5%;
  border: 1px solid lightcoral;
}
.car-top1 {
```

```
border-radius: 25% 40% 0 0;
  background-color: #6A1621;
  max-width: 100%;
  width: 250px;
  height: 130px;
  position: absolute;
  top: 0;
  left: 4%;
}
.window1,
.window2 {
  background-color: #E2F0F6;
  border-radius: 5px;
  position: absolute;
  width: 40%;
  height: 60%;
  margin: 17px;
  border: 9px solid #BF6D7B;
}
.window1 {
  left: 0;
  border-top-left-radius: 30%;
}
.window2 {
  right: 0;
  border-top-right-radius: 50%;
}
.car-top2 {
  border-radius: 100px 200px 0 0;
  background-color: #25659C;
  */ border: 10px solid #72252F;
  background-color: #9C2535;
  max-width: 100%;
  width: 430px;
  height: 140px;
  position: absolute;
  bottom: 20%;
}
.road {
  width: 250%;
  height: 200px;
```

```
background-color: #585858;
  border-top: 10px solid #756D6D;
  border-bottom: 20px solid #756D6D;
  position: absolute;
  bottom: 0%;
  margin-left: -10px;
  padding: 0;
}
.road::before {
  content: " ";
  position: absolute;
  z-index: 0;
  top: -17px;
  left: 0px;
  right: 0px;
  border: 5px solid black;
.road-top-half {
  height: 15px;
  width: 250%;
  position: absolute;
  left: -10%;
  top: 30px;
  border-top: 40px dashed white;
  margin-top: 25px;
  animation: road-moving 10s infinite linear;
  transition: all 3s linear;
}
.skyline {
  width: 100%;
  position: absolute;
  bottom: 205px;
  padding: 0;
  left: 110%;
  animation: road-moving 10s infinite linear;
  transition: all 8s linear;
.building1 {
  width: 220px;
  height: 450px;
  background-color: #211919;
```

```
position: relative;
}
.building1-shadow {
  border-top: 15px solid transparent;
  border-right: 60px solid rgb(44, 37, 37);
  border-bottom: 15px solid #000;
  border-left: 15px solid transparent;
  height: 450px;
  width: 200px;
  position: absolute;
  left: -199px;
}
.building-left-half,
.building-right-half {
  height: 300px;
  width: 50px;
  position: absolute;
  top: 10px;
  border-left: 16px dashed #A9D2C7;
  border-right: 16px dashed rgba(255, 255, 0, 0.19);
  margin-top: 25px;
}
.building-left-half {
  left: 10px;
  padding: 25px;
}
.building-right-half {
  right: 10px;
  padding: 20px;
}
.moon {
  height: 100px;
  width: 100px;
  border-radius: 50%;
  background: rgb(207, 207, 212);
  margin: auto;
  box-shadow: 0 0 60px gold, 0 0 100px rgb(185, 160, 24), inset 0 5px 12px 26px #F5F5F5,
inset -2px 8px 15px 36px #E6E6DB;
  transition: 1s;
  transition: 1s;
  right:370px;
```

```
top: 30px;
  position: absolute;
  animation: sun-moon 40s 2s linear infinite;
  transform-origin: 50% 500px;
}
/*Headlights*/
.car-top1:after {
width: 13px;
height: 37px;
background-color: #BACCDA;
position: absolute;
bottom: -63px;
right: -168px;
z-index: 10;
content: " ";
border-radius: 10px;
border: 2px solid black;
border-left-style: none;
transform: rotate(-15deg);
.car-top2:after {
position: absolute;
bottom: 7px;
right: -340px;
content: " ";
width: 0;
height: 0;
border-top: 20px solid transparent;
border-bottom: 80px solid transparent;
border-right: 500px solid rgba(191,188,87,0.7);
z-index: -1;
-webkit-mask-box-image: -webkit-linear-gradient(left, black, transparent);
-webkit-mask-box-image: -o-linear-gradient(left, black, transparent);
-webkit-mask-box-image: linear-gradient(to right, black, transparent);
transform: rotate(-9deg);
}
```

5. Write a program to validate web form using JavaScript.

Register.pug

```
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 Register
              style
                include ./my.css
            body
              div(class='container')
                 include ./index.pug
                h1 Registration form
                ul(id="errors")
                 Br
                 form(action="/Register" method="post" align="center")
                   label(for="username") username
                   input(type="text" name="username")
                   Br
                   Br
                   label(for="password") password
                   input(type="password" name="password")
                   Br
                   label(for="cpassword") Confirm password
                   input(type="password" name="cpassword")
                   Br
                   Br
                   label(for="age") user age
                   input(type="text" name="age")
                   Br
                   Br
                   label(for="mobile") user mobile
                   input(type="text" name="mobile")
                   Br
                   Br
```

```
label(for="email") user email
                    input(type="text" name="email")
                    Br
                    Br
                    input(type="submit" name="Register" value="Register")
App.js
Const
express=require('express');
const bodyparser=require("body-parser")
const bcrypt=require("bcrypt");
const user=require('./models/user');
const mongoose = require('mongoose');
const expressValidator = require("express-validator");
const {check, validationResult} = require('express-validator/check')
const app = express();
const port = process.env.PORT || 80
mongoose.connect("mongodb://localhost:27017/user", {userNewUrlParser: true});
app.set('view engine', 'pug');
app.use(bodyparser.json());
app.use(bodyparser.urlencoded({extended:true}));
//handling get request
app.get('/',function(req,res){
res.render('index')
})
app.get('/Register',
  function(req,res){
  res.render('Register')
//handling post request
app.post('/Register',
check('username').not().isEmpty().isLength({min:5}).withMessage('User name must be 5 characters'),
  check('password').not().isEmpty().isLength({min:6}).withMessage('Password name must be 6
characters'),
```

```
check('age').not().isEmpty().isInt().withMessage('age must be integer'),
  check('mobile').not().isEmpty().isInt().isLength({min:10}).withMessage('mobile number must be
number and 10 characters'),
  check('cpassword').custom((value, {req}) => (value === req.body.password)).withMessage("Confirm
password not match with your password"),
  check('email').not().isEmpty().isEmail().normalizeEmail().withMessage("Enetr proper email"),
],
  function(req,res){
     const errors= validationResult(req);
     if(!errors.isEmpty())
       return res.status(422).jsonp(errors.array());
     }
     else{
    //console.log(req.body.username)
     const newUser=new user();
     newUser.username=req.body.username;
     var salt=bcrypt.genSaltSync(10);
     var hash=bcrypt.hashSync(req.body.password,salt);
     newUser.password=hash;
     newUser.age=req.body.age;
     newUser.mobile=req.body.mobile;
     newUser.save(function(err,result){
       if(err){
         console.log(err);
       }
       else{
         console.log(result);
         res.redirect("Login");
       }
    })
  }
  })
```

6. Write jquery code to show website slider.

</div>

Corousel.html

```
<!DOCTYP
E 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>JS Slider</title>
                k rel="stylesheet"
              href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
                <script
              src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
                <script
              src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></scr
              ipt>
              </head>
              <body>
                <div class="container">
                  <div id="myCarousel" class="carousel slide">

    class="carousel-indicators">

                       cli class="item2">
                       cli class="item3">
                     </01>
                   <div class="carousel-inner" role="listbox">
                     <div class="item active">
                       <img src="1.jpg" alt="image1" width="100%" height="100%">
                     </div>
                     <div class="item">
                       <img src="2.jpg" alt="image2" width="100%" height="100%">
                     </div>
                     <div class="item">
                       <img src="3.jpg" alt="image3" width="100%" height="100%">
```

```
</div>
    <a class="left carousel-control" href="#myCarousel" role="button">
       <span class="glyphicon glyphicon-chevron-left" aria-</pre>
hidden="true"></span>
       <span class="sr-only">Prev</span>
    </a>
    <a class="right carousel-control" href="#myCarousel" role="button">
       <span class="glyphicon glyphicon-chevron-right" aria-</pre>
hidden="true"></span>
       <span class="sr-only">Next</span>
    </a>
    </div>
  </div>
  <script>
    $(document).ready(function(){
       $("#myCarousel").carousel();
       $(".item1").click(function(){
         $("#myCarousel").carousel(0);
       })
       $(".item2").click(function(){
       $("#myCarousel").carousel(1);
       })
       $(".item3").click(function(){
       $("#myCarousel").carousel(2);
       })
       $(".left").click(function(){
         $("#myCarousel("prev");
       })
       $(".right").click(function(){
       $("#myCarousel("next");
       })
    });
  </script>
</body>
</html>
```

7. Show version control in Github.

```
$ git config --global user.name "cmr"
$ git config --global user.email <a href="mailto:cmr@example.com">cmr@example.com</a>
Index.html
<h1>welcome to my web page</h1>
git init
git add.
git commit -m "Hello world"
Index.html
<h1>welcome to my web page</h1>
My first website
git add.
git commit -m "paragraph added"
git log
git staus
git branch -M main
git remote add origin url
git push -u origin main
```

8. Write a program in JavaScript to create a user login system.

```
Login.pug
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 Login
              style
                 include ./my.css
            body
               div(class='container')
                 include ./index.pug
                 h1 Login form
                 br
                 form(action="/Login" method="post" align="center")
                   label(for="username") username
                   input(type="text" name="username")
                   br
                   br
                   label(for="password") password
                   input(type="password" name="password")
                   br
                   br
                   input(type="submit" name="Login" value="Login")
       Style.css
h1{
        color:blue;
        text-align:center;
      a:link,a:visited{
        background-color: brown;
        color:white;
        padding:14px 25px;
        text-align: center;
```

text-decoration: none;

```
display: inline-block;
}
a:hover,a:active{
  background-color: chartreuse;
.header {
  padding: 10px;
  text-align: center;
  background: #1abc9c;
  color: white;
  font-size: 30px;
 }
 .container {
  border-radius: 5px;
  background-color: #f2f2f2;
  padding: 10px;
 input{
  width: 20%;
  padding: 12px;
  border: 1px solid #ccc;
  margin-top: 6px;
  margin-bottom: 16px;
  resize: vertical;
 }
 input[type=submit] {
  background-color: #04AA6D;
  color: white;
  padding: 12px 20px;
  border: none;
  cursor: pointer;
 }
 input[type=submit]:hover {
  background-color: #45a049;
 }
 label{
  color: blue;
  font-size: 22px;
  padding: 8px;
```

```
text-align:left;
        }
       App.js
Const
express=require('express
');
                           const bodyparser=require("body-parser")
                           const bcrypt=require("bcrypt");
                           const user=require('./models/user');
                           const mongoose = require('mongoose');
                           const expressValidator = require("express-validator");
                           const {check, validationResult} = require('express-validator/check')
                           const app = express();
                           const port = process.env.PORT || 80
                           mongoose.connect("mongodb://localhost:27017/user", {userNewUrlP
                           arser : true});
                           app.set('view engine', 'pug');
                           app.use(bodyparser.json());
                           app.use(bodyparser.urlencoded({extended:true}));
                           //handling get request
                           app.get('/',function(req,res){
                           res.render('index')
                           })
                           app.get('/Login',function(req,res){
                              res.render('Login')
                              })
                           //handling post request
                              app.post('/Login',function(req,res){
                           user.findOne({username:req.body.username},function(err,docs){
                                   if(err)
                                     console.log(err)
                                   else
```

```
if(docs.username==req.body.username)
                                     {
                           bcrypt.compare(req.body.password,docs.password,function(err,data)
                                         if(err)
                                            console.log(err);
                                          if(data)
                                            console.log(data);
                                            res.send("Welcome");
                                          }
                                         else
                                          {
                                            res.send("invalid password");
                                       });
                                     }
                                     else
                                       //res.send("invalid username or password")
                                       res.redirect("Register");
                                  }
                                })
                                })
                           app.listen(port,() => {console.log(`app is listening on
                           http://localhost:${port}`)})
mongoose=require('mongoose');
                                  const Schema=mongoose.Schema;
```

Models/user.js

Const

```
const userSchema=new Schema(
    {
    username : {type:String},
    password : {type:String},
    age : {type:Number},
    mobile : {type:Number}
}
);
module.exports=mongoose.model("user",userSchema);
```

9. Create a website showing jquery slider.

```
<!DOCTYP
E 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>JS Slider</title>
               k rel="stylesheet"
             href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
               <script
             src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
               <script
             src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></scr
             ipt>
             </head>
             <body>
               <nav class="navbar navbar-inverse">
                  <div class="container-fluid">
                   <div class="navbar-header">
                    <button type="button" class="navbar-toggle" data-toggle="collapse"
             data-target="#myNavbar">
                     <span class="icon-bar"></span>
                     <span class="icon-bar"></span>
                     <span class="icon-bar"></span>
                    </button>
                    <a class="navbar-brand" href="#">WebSiteName</a>
                   </div>
                   <div class="collapse navbar-collapse" id="myNavbar">
                    class="active"><a routerLink="/Home">Home</a>
                     cli class="dropdown">
                      <a class="dropdown-toggle" data-toggle="dropdown" href="#">Page 1
             <span class="caret"></span></a>
                      <a href="#">Page 1-1</a>
                       <a href="#">Page 1-2</a>
                       <a href="#">Page 1-3</a>
```

```
<a href="#">Page 2</a>
       <a routerLink="/About" >About</a>
      <a href="#"><span class="glyphicon glyphicon-user"></span> Sign
Up</a>
       <a href="login.html"><span class="glyphicon glyphicon-log-
in"></span> Login</a>
      </div>
    </div>
   </nav>
  <div class="container">
    <div id="myCarousel" class="carousel slide">

    class="carousel-indicators">

        cli class="item2">
        cli class="item3">
      <div class="carousel-inner" role="listbox">
      <div class="item active">
        <img src="1.jpg" alt="image1" width="100%" height="100%">
      </div>
      <div class="item">
        <img src="2.jpg" alt="image2" width="100%" height="100%">
      </div>
      <div class="item">
        <img src="3.jpg" alt="image3" width="100%" height="100%">
      </div>
    </div>
    <a class="left carousel-control" href="#myCarousel" role="button">
      <span class="glyphicon glyphicon-chevron-left" aria-</pre>
hidden="true"></span>
      <span class="sr-only">Prev</span>
    \langle a \rangle
    <a class="right carousel-control" href="#myCarousel" role="button">
      <span class="glyphicon glyphicon-chevron-right" aria-</pre>
```

```
hidden="true"></span>
       <span class="sr-only">Next</span>
    </a>
    </div>
  </div>
  <script>
    $(document).ready(function(){
       $("#myCarousel").carousel();
       $(".item1").click(function(){
         $("#myCarousel").carousel(0);
       })
       $(".item2").click(function(){
       $("#myCarousel").carousel(1);
       })
       $(".item3").click(function(){
       $("#myCarousel").carousel(2);
       })
       $(".left").click(function(){
         $("#myCarousel").carousel("prev");
       })
       $(".right").click(function(){
       $("#myCarousel("next");
       })
    });
  </script>
</body>
</html>
```

10. Write a program to show user details using HTML, CSS, & AJAX.

```
Ajax.pug
```

```
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 Login
     style
       include ./my.css
     script(src="http://code.jquery.com/jquery-3.1.0.min.js")
     script(src="/magic.js")
    include ./index.pug
  body
     div(class='container')
       form(method="post" id="change" align="center")
          input(type='text', placeholder='search user', name='name')
          input(type="submit", value="Search")
         br
         h1 User Details
         p!{name}
/public/magic.js
$(document).ready(function(){
  $("form#change").on('submit', function(e){
     e.preventDefault();
     var data = $('input[name=name]').val();
     $.ajax({
       type: 'post',
       url: '/ajax',
       data: data,
       dataType: 'text'
     .done(function(data){
       $('h1').html(data.name);
     });
  });
});
```

App.js

```
const express = require('express');
const bodyparser=require("body-parser")
const bcrypt=require("bcrypt");
const user=require('./models/user');
const mongoose = require('mongoose');
const expressValidator = require("express-validator");
const {check, validationResult} = require('express-validator/check')
const app = express();
const port = process.env.PORT || 80
mongoose.connect("mongodb://localhost:27017/user", {userNewUrlParser: true});
app.set('view engine', 'pug');
app.use(bodyparser.json());
app.use(bodyparser.urlencoded({extended:true}));
     app.get('/ajax', function(req, res){
       res.render('ajax', {title: 'An Ajax Search', name: "Search user!"});
     app.post('/ajax', function(req, res){
       user.findOne({username:req.body.name},function(err,docs){
          if(err)
          {
            console.log(err)
          }
          else
              res.render('ajax', {title: 'An Ajax search', name: "Name "+docs.username+", Age
"+docs.age+", Mobile "+docs.mobile });
       });
     });
app.listen(port,() => {console.log(`app is listening on http://localhost:${port}`)})
```

11. Write a program to display options in a search engine using Ajax.

```
Ajax.pug
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 Login
     style
       include ./my.css
     script(src="http://code.jquery.com/jquery-3.1.0.min.js")
     script(src="/magic.js")
    include ./index.pug
  body
     div(class='container')
       form(method="post" id="change" align="center")
          input(type='text', placeholder='search user', name='name')
          input(type="submit", value="Search")
          br
          a(href="") All
          a(href="") images
          a(href="") Latest
          a(href="") News
         h1 User Details
         p!{name}
/public/magic.js
$(document).ready(function(){
  $("form#change").on('submit', function(e){
     e.preventDefault();
     var data = $('input[name=name]').val();
     $.ajax({
       type: 'post',
       url: '/ajax',
       data: data,
       dataType: 'text'
     })
     .done(function(data){
       $('h1').html(data.name);
     });
```

});
});

App.js

```
const express = require('express');
const bodyparser=require("body-parser")
const bcrypt=require("bcrypt");
const user=require('./models/user');
const mongoose = require('mongoose');
const expressValidator = require("express-validator");
const {check, validationResult} = require('express-validator/check')
const app = express();
const port = process.env.PORT || 80
mongoose.connect("mongodb://localhost:27017/user", {userNewUrlParser: true});
app.set('view engine', 'pug');
app.use(bodyparser.json());
app.use(bodyparser.urlencoded({extended:true}));
     app.get('/ajax', function(req, res){
       res.render('ajax', {title: 'An Ajax Search', name: "Search user!"});
     app.post('/ajax', function(req, res){
       user.findOne({username:req.body.name},function(err,docs){
          if(err)
          {
            console.log(err)
          }
          else
              res.render('ajax', {title: 'An Ajax search', name: "Name "+docs.username+", Age
"+docs.age+", Mobile "+docs.mobile });
       });
     });
app.listen(port,() => {console.log(`app is listening on http://localhost:${port}`)})
```