

Simple web application using MEAN Stack

Name:	M Badri Narayanan
Reg No:	185002018
Semester:	VI
Exercise Number:	10
Date:	April 13, 2021

Aim

To design a Simple web application using MEAN Stack.

Procedure

- Create an instance of express framework using Node JS.
 - Include body parser to handling form requests.
 - Connect to MongoDB.
 - Render the angular js form to be validated.
 - Create Angular JS forms.
 - Route the action of the form.
 - Perform Insertion operation using Mongo DB client.
-

Angular Code (app.js)

```
const express = require('express');
var bodyParser = require("body-parser");
var mongoose = require("mongoose");

const app=express();

app.listen(3000);

app.use(express.static('public'));

app.use(bodyParser.urlencoded({ extended:true, useNewUrlParser: true,
↪ useUnifiedTopology: true}));

mongoose.connect("mongodb+srv://Badri:BadriWebProgrammingLab@cluster0.hn5pf.mongodb.net/WebProgrammi

const account={
  title:String,
  firstname:String,
  lastname:String,
  mobilenum: String,
  emailid: String,
```

```

    message: String
  }

  const portfolio = mongoose.model("Portfolio",account);

  app.get('/',(req,res)=>{
    res.sendFile('./views/MyWebPage.html',{root:__dirname});
  })
  app.get('/contact',(req,res)=>{
    res.sendFile('./views/contact.html',{root:__dirname});
  })
  app.post('/contact',(req,res)=>{
    let newaccount=new portfolio({
      title:req.body.title,
      firstname:req.body.firstname,
      lastname:req.body.lastname,
      mobilenummer: req.body.mobilenummer,
      emailid: req.body.emailid,
      message: req.body.message
    })
    newaccount.save();
    res.redirect('/done');
  });
  app.get('/done',(req,res)=>{
    res.sendFile('public/insertion.html',{root:__dirname});
  })

  app.use((req,res)=>{
    res.sendFile('./views/404.html',{root:__dirname});
  })

```

HTML Code (MyWebPage.html)

```

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

  <meta charset="UTF-8">
  <meta name="description" content="Portfolio Web Page">
  <meta name="keywords" content="HTML5, CSS3, JavaScript">
  <meta name="author" content="M Badri Narayanan">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Web Page</title>
  <link rel="icon" type="image/x-icon" href="images/favicon.ico" />
  <link rel="stylesheet" href="./style.css">
</head>
<body>

  <h1 style="text-align:center">M Badri Narayanan</h1>

  <img src = "./Profile.png" alt = "My Profile Picture"
  ↪ usemap="#profile" height = "200" width = "200"></img><br>

  <map name="profile">
    <area shape = "rect" coords="0,0,100,100" alt = "My GitHub
    ↪ Profile" href="https://github.com/MBadriNarayanan"
    ↪ target="_blank">

```

```

        <area shape = "rect" coords="100,100,200,200" alt = "My
        ↳ LinkedIn Profile"
        ↳ href="https://www.linkedin.com/in/mbadrinarayanan"
        ↳ target="_blank">
    </map>

<h3>My Social Networking Sites</h3>
    <ol>
        <li><a href="https://github.com/MBadriNarayanan"
        ↳ target="_blank">Git Hub</span></a></li>
        <li><a href="https://www.linkedin.com/in/mbadrinarayanan"
        ↳ target="_blank">LinkedIn</a></li>
    </ol>

<h3>Summary</h3>

<p class = "static">I am currently pursuing my bachelors in
    ↳ Information Technology from SSN College of Engineering, Chennai. I
    ↳ am interested in the fields of Machine Learning , Deep Learning,
    ↳ Natural Language Processing, Computer Vision and Data Science.I
    ↳ would like to work in the aforementioned fields and develop real
    ↳ world solutions. I am also an avid sports fan and my hobbies
    ↳ include playing cricket, listening to music, watching movies and
    ↳ reading books.</p>

<a href = #EducationDetails>My Education Details</a><br>
<a href = #ExtraCurricular>Extra Curricular</a><br>
<a href = #Awards>Awards</a><br>
<a href = #Contact>Contact Form</a><br>

<a name = "EducationDetails"></a>
<h4>My Education Details</h4>
<table border="1" align="left" width="40%">
    <tr><td>College / School</td><td>Grade</td><td>Marks
    ↳ Obtained</td></tr>
    <tr><td>SSN College of Engineering, Chennai</td><td>BTech
    ↳ Information Technology</td><td>Current GPA : 8.828 (V
    ↳ Semester)</td></tr>
    <tr><td>Vidya Mandir Senior Secondary School,
    ↳ Chennai</td><td>12<sup>th</sup> Grade, Computer Science
    ↳ Group</td><td>94.4 %</td></tr>
    <tr><td>Vidya Mandir Senior Secondary School,
    ↳ Chennai</td><td>10<sup>th</sup> Grade</td><td>8.8</td></tr>
</table>

<a name = "ExtraCurricular"></a>
<h4>Extra Curricular</h4>
<ul>
    <li>Volunteering with Chennai Volunteers to teach spoken
    ↳ English classes for Tamil medium students.</li>
    <li>Captained the school cricket team</li>
    <li>Represented the college cricket team</li>
</ul>

<a name = "Awards"></a>
<h4>Awards</h4>
<ul>
    <li>Won the 2<sup>nd</sup> best project in Computer Science in
    ↳ 12<sup>th</sup> grade.</li>

```

```

        <li>Stood school 3<sup>rd</sup> in Chemistry in
        ↪ 12<sup>th</sup> grade.</li>
    </ul>

    <a name = "Contact"></a>
    <h2>Contact Form</h2>
    <a href = "/contact" target="_blank">Click here to view the contact
    ↪ form.</a>
</body>
</html>

```

HTML Code (contact.html)

```

<style>
body
{
    font-family: Arial, Helvetica, sans-serif;
}
*
{
    box-sizing: border-box;
}

```

```

input[type=text], select, textarea
{
    width: 100%;
    padding: 12px;
    border: 1px solid #ccc;
    border-radius: 4px;
    box-sizing: border-box;
    margin-top: 6px;
    margin-bottom: 16px;
    resize: vertical;
}

```

```

input[type=tel], select, textarea
{
    width: 100%;
    padding: 12px;
    border: 1px solid #ccc;
    border-radius: 4px;
    box-sizing: border-box;
    margin-top: 6px;
    margin-bottom: 16px;
    resize: vertical;
}

```

```

input[type=email], select, textarea
{
    width: 100%;
    padding: 12px;
    border: 1px solid #ccc;
    border-radius: 4px;
    box-sizing: border-box;
    margin-top: 6px;
    margin-bottom: 16px;
    resize: vertical;
}

```

```

input[type=submit]
{
    background-color: #4CAF50;
    color: white;
    padding: 12px 20px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

input[type=submit]:hover
{
    background-color: #45a049;
}

.container
{
    border-radius: 5px;
    background-color: #f2f2f2;
    padding: 20px;
}
</style>
<script
↳ src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<h2 style="text-align: center;">Contact Form</h2>
<div ng-app="">
    <div class="container">
        <form action="" method="post">
            <label for = "desc">Title</label>
            <input type = "text" name = "title" placeholder = "Mr" pattern =
↳ "[a-zA-Z\s]*$" required ng-model="title">
            <h3>You Entered: {{title}}</h3><br><br>
            <label for = "fname">First Name</label>
            <input type = "text" name = "firstname" placeholder = "John"
↳ pattern = "[a-zA-Z\s]*$" required ng-model="firstname">
            <h3>You Entered: {{firstname}}</h3><br><br>
            <label for = "lname">Last Name</label>
            <input type = "text" name = "lastname" placeholder = "Doe" pattern =
↳ "[a-zA-Z\s]*$" required ng-model="lastname">
            <h3>You Entered: {{lastname}}</h3><br><br>
            <label for = "mobile">Phone Number</label><br>
            <input type = "tel" name = "mobilenumber" placeholder =
↳ "9876543210" pattern="[0-9]{10}" required
↳ ng-model="mobilenumber">
            <h3>You Entered: {{mobilenumber}}</h3><br><br>
            <label for = "email">Email</label><br>
            <input type = "email" name = "emailid" placeholder =
↳ "johndoe@xyz.com" pattern =
↳ "[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,}" required
↳ ng-model="emailid">
            <h3>You Entered: {{emailid}}</h3><br><br>
            <label for="subject">Subject</label>
            <textarea name = "message" placeholder = "Write your message..."
↳ style = "height:200px" required ng-model="message"></textarea>
            <h3>You Entered: {{message}}</h3><br><br>
            <button type="submit" name="submit" value="Submit">Submit</button>
        </form>
    </div>
</div>
</div>

```

HTML Code (insertion.html)

```
<h1>Record Inserted !!</h1>
```

HTML Code (404.html)

```
<h1>404 Error !!</h1>
```

Output

Figure 1: Output Pic1

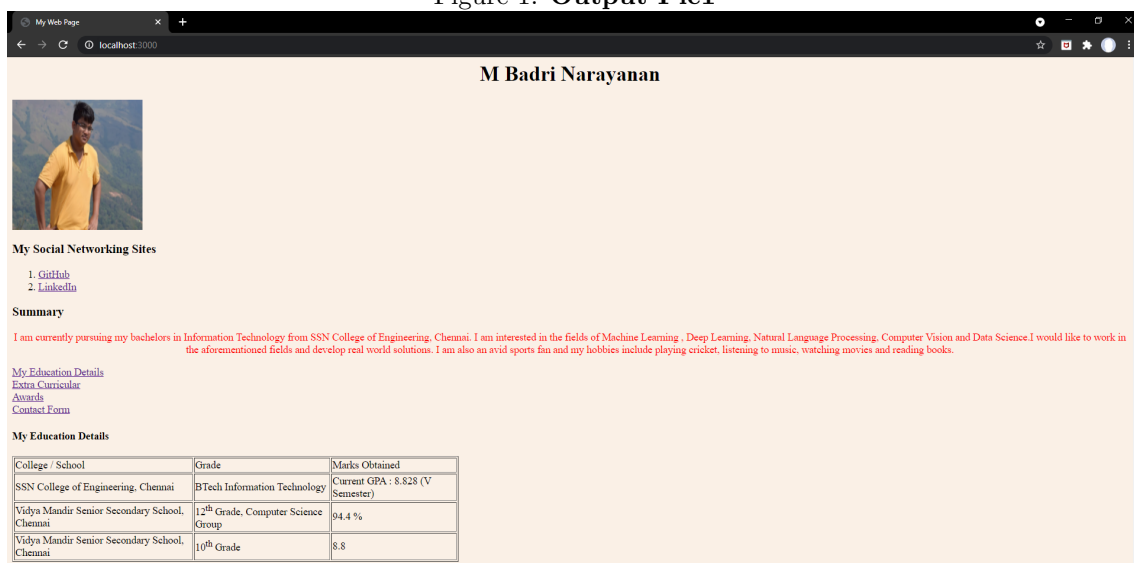


Figure 2: Output Pic2

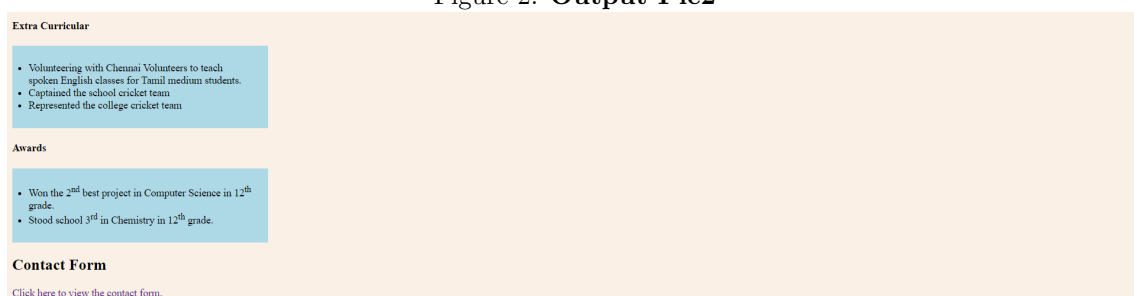


Figure 3: Output Pic3

← → ↻ localhost:3000/contact

Contact Form

Title

M

You Entered: M

First Name

Badri

You Entered: Badri

Last Name

Narayanan

You Entered: Narayanan

Phone Number

8220584258

You Entered: 8220584258

Email

badri@gmail.com

Figure 4: Output Pic4

You Entered: Narayanan

Phone Number

8220584258

You Entered: 8220584258

Email

badri@gmail.com

You Entered: badri@gmail.com

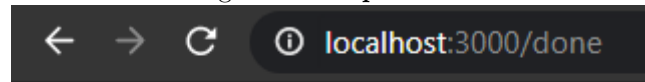
Subject

Very good website !!

You Entered: Very good website !!

Submit

Figure 5: Output Pic5



Record Inserted !!

Figure 6: Output Pic6

```
_id: ObjectId("608ff95e70d4f048a87cbf70")
title: "M"
firstname: "Badri"
lastname: "Narayanan"
mobilenumber: "8220584258"
emailid: "badri@gmail.com"
message: "Very good website !!"
__v: 0
```

Result

The MEAN Stack simple webpage was implemented and the Insertion operation was performed.
