EXPERIMENT 9

AIM: Form handling using express and node js.

A. Steps to install nodejs in Windows

1. Download Node.js Installer:

- Go to the official Node.js website.
- Link https://nodejs.org/en/download/source-code
- Download the latest stable version for Windows (use the LTS version if you're unsure).

1. Run the Installer:

- Once the download is complete, run the installer.
- Follow the prompts in the installer (accept the license agreement, choose the installation directory, etc.).
- Make sure to check the box that says "Automatically install the necessary tools" (includes npm).

1. Check Installation:

• Open Command Prompt or PowerShell.

Run the following command to check if Node.js and npm were installed successfully:

bash

Copy code

node -v

npm -v

These commands should display the installed versions of Node.js and npm.

B. Steps to create the project:

Initialize Node.js Project: Run these commands in your terminal:

mkdir form-handling-example

```
cd form-handling-example
```

Install Express:

npm init -y

npm install express

Project Structure: Create the following structure:

1. app.js (Express Application)

This is your main Node.js application:

```
const express = require('express');
const path = require('path');
const bodyParser = require('body-parser');

const app = express();
const port = 3000;

// Middleware to parse the form data
```

```
app.use(bodyParser.urlencoded({ extended: false }));
app.use(express.static(path.join( dirname, 'public')));
app.get('/', (req, res) => {
   res.sendFile(path.join( dirname, 'views', 'index.html'));
});
app.post('/submit-form', (req, res) => {
StudentHallticketNumber, ExamDate} = req.body;
   res.send(`<h1>Form Submitted</h1>
```

```
// Start the server
app.listen(port, () => {
   console.log(`Server running at http://localhost:${port}`);
});
```

2. index.html (Form Template)

This is the form that users will interact with:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Form Handling with Express</title>
  <link rel="stylesheet" href="/style.css">
</head>
<body>
  <div class="form-container">
       <h1>Exam Registration Form</h1>
      <form action="/submit-form" method="POST">
           <label for="name">Student Name:</label>
           <input type="text" id="name" name="name" required>
           <br>
           <label for="email">Email:</label>
           <input type="email" id="email" name="email" required>
```

```
<br>
           <label for="contact">Contact:</label>
           <input type="text" id="contact" name="contact" required>
           <br>
           <label for="Class">Class:</label>
           <input type="text" id="class" name="classname" required>
           <br>
           <label for="Branch">Branch:</label>
           <input type="text" id="Branch" name="Branch" required>
           <br>>
           <label for="Semester">Semester:</label>
           <input type="number" id="Semester" name="Semester" required>
           <br>
           <label for="Student hallticket number">Student Hallticket
Number:</label>
           <input type="text" id="Student Hallticket Number"</pre>
name="StudentHallticketNumber" required>
           <br>
           <label for="Exam Date">Exam Date:</label>
           <input type="date" id="Exam Date" name="ExamDate" required>
           <br>
           <button type="submit">Submit
       </form>
   </div>
</body>
```

```
</html>
```

3. style.css (External Stylesheet)

This is the CSS file to style the form and set the background color:

```
body {
  background-color: #fffc41;
  font-family: Arial, sans-serif;
.form-container {
  width: 500px;
  margin: 200px auto;
  padding: 35px;
  background-color: rgb(255, 134, 64);
  box-shadow: 10px 10px lightblue;
h1 {
   text-align: center;
label {
  display: block;
```

```
margin: 10px 0 5px;
   color: rgb(4, 0, 255);
input {
   width: 100%;
  padding: 8px;
  margin-bottom: 10px;
button {
   width: 100%;
  padding: 10px;
  background-color: #09ff00;
   color: rgb(255, 0, 0);
   border: none;
   cursor: pointer;
button:hover {
   background-color: #b30095;
```

4. Run the Application:

1. Save the files.

Start the server by running:

node app.js

- 1. Open your browser and navigate to http://localhost:3000. You will see a form with a background color applied from the external CSS.
- 2. Submit the form, and you should see a confirmation page displaying the form data.

OUTPUT:



Form Submitted

Name: Ali Hasan

Email: ah14hasan@gmail.com

Contact: 8125694823

Class: J

Branch: AIML

Semester: 7

Student Hallticket Number: 160121729020

Exam Date: 2024-10-26