INTRODUCTION

This project is a dynamically complete and customizable portfolio website creator developed using Node.js, Express.js, and the EJS templating engine. It's created as an easy-to-use tool wherein users can input their personal, academic, and professional information through a web form. Once submitted, the application creates a contemporary portfolio webpage with dark theme styling and additional smooth scrolling animations.

Major features are:

Uploading a profile picture

About Me, Skills, Experience, Projects, and Contact sections

Dynamic input of various projects in JSON formatting

Elegant, responsive navigation bar

Scroll-activated animations for a new UI feel

A contact page with a custom message, email, phone, and social links

The project showcases a full-stack web application pipeline, where the user input is gathered on the frontend, processed by the server via Node.js, and dynamically rendered into a styled EJS template. It is thus best suited for students and professionals looking for a quick and powerful tool to display their portfolios without requiring any coding beyond setup.

CODE:

//portfolio.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title><%= name %>'s Portfolio</title>
 <link rel="stylesheet" href="/style.css">
 <script defer src="/script.js"></script>
</head>
<body class="dark">

 <nav class="navbar">
  <h2 class="navbar-title"><%= name %></h2>
  <br>
  <ul class="navbar-links">
   <li><a href="#about" class="scroll-link">About</a></li>
   <li><a href="#skills" class="scroll-link">Skills</a></li>
   <li><a href="#experience" class="scroll-link">Experience</a></li>
   <li><a href="#projects" class="scroll-link">Projects</a></li>
   <li><a href="#contact" class="scroll-link">Contact</a></li>
  </ul>
 </nav>

 <main class="main-container">

  <section id="header" class="header">
   <div class="profile-wrapper">
    <img src="<%= profilePic %>" alt="Profile Picture" class="profile-pic">
    <div class="header-info">
```

```html
    <h1 class="name"><%= name %></h1>
    <p class="education"><%= education %></p>
    <p class="contact-info"><%= email %> | <%= phone %></p>
    <div class="social-links">
      <a href="<%= linkedin %>" target="_blank">LinkedIn</a>
      <a href="<%= github %>" target="_blank">GitHub</a>
    </div>
   </div>
  </div>
</section>


<section id="about" class="section about animate-on-scroll">
  <h2>About Me</h2>
  <p><%= about %></p>
</section>


<section id="skills" class="section skills animate-on-scroll">
  <h2>Skills</h2>
  <div class="skill-badge-wrapper">
    <% skills.split(',').forEach(skill => { %>
      <span class="badge"><%= skill.trim() %></span>
    <% }) %>
  </div>
</section>


<section id="experience" class="section experience animate-on-scroll">
  <h2>Experience</h2>
  <p>
    <strong><%= experience.role %></strong> at <%= experience.company %><br>
    <em>(<%= experience.duration %>)</em>
  </p>
```

```html
    </section>

    <section id="projects" class="section projects animate-on-scroll">
      <h2>Projects</h2>
      <% projects.forEach(project => { %>
        <div class="project">
          <h3><%= project.title %></h3>
          <p><%= project.description %></p>
        </div>
      <% }) %>
    </section>

    <section id="contact" class="section contact animate-on-scroll">
      <h2>Contact Me</h2>
      <p><%= contactMessage %></p>

      <ul class="contact-details">
        <li><strong>Email:</strong> <%= email %></li>
        <li><strong>Phone:</strong> <%= phone %></li>
        <li><strong>LinkedIn:</strong> <a href="<%= linkedin %>" target="_blank"><%= linkedin %></a></li>
        <li><strong>GitHub:</strong> <a href="<%= github %>" target="_blank"><%= github %></a></li>
      </ul>
    </section>

  </main>

</body>
</html>


//form.ejs
<!DOCTYPE html>
<html lang="en">
```

```html
<head>
  <meta charset="UTF-8">
  <title>Create Your Portfolio</title>
  <link rel="stylesheet" href="/style.css">
</head>
<body class="dark">

  <h1>Create Your Portfolio</h1>

  <form action="/generate" method="POST" enctype="multipart/form-data">
    <label for="name">Full Name:</label>
    <input type="text" name="name" value="<%= defaultName %>" required><br>

    <label for="email">Email:</label>
    <input type="email" name="email" value="<%= defaultEmail %>" required><br>

    <label for="phone">Phone:</label>
    <input type="text" name="phone" value="<%= defaultPhone %>" required><br>

    <label for="linkedin">LinkedIn:</label>
    <input type="url" name="linkedin" value="<%= defaultLinkedin %>" required><br>

    <label for="github">GitHub:</label>
    <input type="url" name="github" value="<%= defaultGithub %>" required><br>

    <label for="education">Education:</label>
    <input type="text" name="education" value="<%= defaultEducation %>" required><br>

    <label for="about">About Me:</label>
    <textarea name="about" required><%= defaultAbout %></textarea><br>

    <label for="skills">Skills (comma separated):</label>
```

```html
<input type="text" name="skills" value="<%= defaultSkills %>" required><br>

<label for="expCompany">Experience Company:</label>
<input type="text" name="expCompany" value="<%= defaultExpCompany %>"><br>

<label for="expRole">Experience Role:</label>
<input type="text" name="expRole" value="<%= defaultExpRole %>"><br>

<label for="expDuration">Experience Duration:</label>
<input type="text" name="expDuration" value="<%= defaultExpDuration %>"><br>

<label for="projectTitle1">Project 1 Title:</label>
<input type="text" name="projectTitle1" value="<%= defaultProjectTitle1 %>"><br>

<label for="projectDesc1">Project 1 Description:</label>
<textarea name="projectDesc1"><%= defaultProjectDesc1 %></textarea><br>

<label for="projectTitle2">Project 2 Title:</label>
<input type="text" name="projectTitle2" value="<%= defaultProjectTitle2 %>"><br>

<label for="projectDesc2">Project 2 Description:</label>
<textarea name="projectDesc2"><%= defaultProjectDesc2 %></textarea><br>

<label for="contactMessage">Contact Message:</label>
<textarea name="contactMessage"><%= defaultContactMessage %></textarea><br>

<label for="profilePic">Profile Picture:</label>
<input type="file" name="profilePic" accept="image/*" required><br>

<button type="submit">Generate Portfolio</button>
</form>
```

```
</body>
</html>
```

//app.js

```
const express = require('express');

const bodyParser = require('body-parser');

const multer = require('multer');

const path = require('path');

const fs = require('fs');


const app = express();

const port = 3000;


const storage = multer.diskStorage({

  destination: function (req, file, cb) {

    cb(null, 'public/uploads/');

  },

  filename: function (req, file, cb) {

    cb(null, Date.now() + path.extname(file.originalname));

  }

});


const upload = multer({ storage: storage });


app.use(bodyParser.urlencoded({ extended: true }));

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

app.set('view engine', 'ejs');


if (!fs.existsSync('public/uploads')) {

  fs.mkdirSync('public/uploads');

}
```

```javascript
app.get('/', (req, res) => {
  res.render('form', {
    defaultName: "John Doe",

    defaultEmail: "johndoe@example.com",

    defaultPhone: "+1234567890",

    defaultLinkedin: "https://linkedin.com/in/johndoe",

    defaultGithub: "https://github.com/johndoe",

    defaultEducation: "BSc in Computer Science",

    defaultAbout: "I am passionate about coding and technology.",

    defaultSkills: "JavaScript, Node.js, React, CSS",

    defaultExpCompany: "TechCorp",

    defaultExpRole: "Software Developer",

    defaultExpDuration: "2 years",

    defaultProjectTitle1: "Project One",

    defaultProjectDesc1: "Description of Project One.",

    defaultProjectTitle2: "Project Two",

    defaultProjectDesc2: "Description of Project Two.",

    defaultContactMessage: "Feel free to contact me for collaboration."
  });
});


app.post('/generate', upload.single('profilePic'), (req, res) => {
  const {
    name, email, phone, linkedin, github, education, about, skills,

    expCompany, expRole, expDuration, projectTitle1, projectDesc1,

    projectTitle2, projectDesc2, contactMessage
  } = req.body;


  const profilePic = req.file ? '/uploads/' + req.file.filename : '/uploads/default.jpg';


  res.render('portfolio', {
    name, email, phone, linkedin, github, education, about, skills,
```

```javascript
      experience: { company: expCompany, role: expRole, duration: expDuration },

      projects: [

        { title: projectTitle1, description: projectDesc1 },

        { title: projectTitle2, description: projectDesc2 }

      ],

      contactMessage,

      profilePic

    });

  });


app.listen(port, () => {

  console.log(`Server running at http://localhost:${port}`);

});
```

//script.js

```javascript
window.addEventListener("scroll", () => {

  const elements = document.querySelectorAll(".animate-on-scroll");

  elements.forEach(element => {

    const rect = element.getBoundingClientRect();

    if (rect.top >= 0 && rect.bottom <= window.innerHeight) {

      element.classList.add("in-view");

    }

  });

});
```

OUTPUT:

Create Your Portfolio

Full Name:

John Doe

Email:

johndoe@example.com

Phone:

+1234567890

LinkedIn:

https://linkedin.com/in/johndoe

GitHub:

https://github.com/johndoe

Education:

BSc in Computer Science

About Me:

I am passionate about coding and technology.

Skills (comma separated):

JavaScript, Node.js, React, CSS

Experience Role:

Software Developer

Experience Duration:

2 years

Project 1 Title:

Project One

Project 1 Description:

Description of Project One.

Project 2 Title:

Project Two

Project 2 Description:

Description of Project Two.

Contact Message:

Feel free to contact me for collaboration.

Profile Picture:

Choose File   No file chosen

Generate Portfolio

Ranjan Bej

About   Skills   Experience   Projects   Contact

Ranjan Bej

Btech CSIT

ranjan.288.bej@gmail.com | 9125315629

LinkedIn   GitHub

About Me

I am passionate about coding and technology.

Skills

JavaScript   Node.js   React   CSS

Experience

Software Developer at Tata Technologies

Ranjan Bej

Projects

Chat App

💬 Real-Time Messaging: Instantly send and receive messages between users using WebSockets or Firebase. 🔐 User Authentication: Secure login/signup using email/password, Google, or other providers. ▦ Responsive Design: Fully mobile-friendly interface for seamless use on all devices. 📁 Chat Rooms/Groups: Create and join multiple chat rooms or private groups.

Ecommerce Website

🖥️ Product Listings: Browse a wide range of products with categories, filters, and search options. 📦 Product Details: Individual product pages with images, descriptions, prices, reviews, and stock info. 🛒 Shopping Cart: Add, remove, or update items with real-time total calculations. 💳 Secure Checkout: Multiple payment options (credit/debit cards, PayPal, etc.) with encryption.

Ranjan Bej

Ecommerce Website

🖥️ Product Listings: Browse a wide range of products with categories, filters, and search options. 📦 Product Details: Individual product pages with images, descriptions, prices, reviews, and stock info. 🛒 Shopping Cart: Add, remove, or update items with real-time total calculations. 💳 Secure Checkout: Multiple payment options (credit/debit cards, PayPal, etc.) with encryption.

Contact Me

Feel free to contact me for collaboration.

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