

Front-End UI/UX Development

Front-End UI/UX Development Mini Project

UI/UX DESIGN FUNDAMENTALS

Submitted by:

SR.NO	NAME	REGISTER NUMBER	COLLEGE EMAIL ID	CLASS
1.	SNEHA T	2462365	sneha.t@btech.christuniversity.in	3BTCS DS
2.	VIKASINI CHANDRAKUMAR	2462373	vikasini.chandrakumar@btech.christuniversit y.in	3BTCS DS
3.	RAKSHWANTH.K	2462352	rakshwanth.k@btech.christuniversity.in	3BTCS DS

Instructor Name: Ms. Nagaveena

Institution Name: Christ (Deemed to be University), Bangalore

Date of Submission:26/09/2025

ONLINE RESUME BUILDER

1. Abstract

The **Resume Builder** is a web-based application that allows users to create professional resumes quickly and efficiently. It provides a multi-step interface for inputting personal, educational, and professional details, including skills, campus involvement, and certificates. The resume is dynamically generated and can be downloaded as a PDF in A4 format. The system eliminates manual formatting and ensures a clean, professional design.

2. Objectives

- Develop an intuitive web application to create resumes without prior design knowledge.
- Facilitate quick and organized data entry.
- Generate resumes that are professional, customizable, and downloadable as PDF.
- Include sections for personal info, skills, work experience, campus activities, and certificates.

3. Scope of The Project

- Targeted for students, interns, and professionals.
- Provides a structured platform for building resumes.
- Supports multi-step forms for clear organization of input data.
- Enables PDF download for easy sharing with employers.
- Includes customization of sections such as skills, campus involvement, and certificates.

4. Tools & Technologies Used

Technology	Description
HTML5	Structure of multi-step form and resume layout
CSS3	Styling and responsive design for the application
JavaScript (ES6)	Dynamic form handling, data collection, and rendering resume
html2pdf.js	Convert HTML resume into downloadable PDF

FileReader API	Upload and preview profile images.
Google Fonts (Roboto)	Professional typography

5. HTML Structure Overview

- **Multi-step form:** 7 steps covering personal info, education, experience, skills, campus involvement, certificates, and summary.
- **Inputs:** Text fields for name, job title, address, email, phone; textareas for multiple-line inputs like responsibilities and skills; file input for profile photo.
- **Final Resume:** Two-column layout:
 - **Left Column:** Profile picture, name, job title, contact info, education, and skills.
 - **Right Column:** About Me, Work Experience, Campus Involvement, Certificates.
- **Buttons:** Navigation buttons (Next, Previous), Create Resume, Download PDF, Edit.

6. CSS Styling Strategy

- **Container:** Centered, with padding, rounded corners, and shadow.
- **Form Steps:** Hidden initially; displayed step-by-step.
- **Inputs/Textareas:** Full-width, padding, rounded corners, margin spacing.
- **Buttons:** Colored with hover effect, rounded corners, consistent size.
- **Resume Layout:** Flexbox for left-right column layout, spacing for readability.
- **Typography:** Roboto font for professional look.
- **Responsive Design:** Works on different screen sizes.

7. JavaScript Overview:

- **Step Navigation:** `nextStep()` and `prevStep()` functions control multi-step form.
- **Data Collection:** Gather data from input fields and textareas.
- **Dynamic Rendering:** Convert user input into formatted HTML for resume.
- **Profile Photo Handling:** FileReader API used to display uploaded image.

- **PDF Generation:** `html2pdf.js` exports the resume to A4 PDF.
- **Edit Option:** Allows user to go back and edit inputs.

8. Key Features

Feature	Description
Multi-step Form	Organized input of personal, educational, and professional details
Dynamic Resume Generation	Converts user input into structured HTML resume
Profile Picture Upload	Allows image preview and inclusion in resume
Skills & Certificates	Supports multiple entries, displayed as lists
Campus Involvement	Dedicated section for activities and achievements
PDF Download	Downloadable professional resume in A4 format
Edit Function	Modify information after generating resume

9. Challenges Faced & Solutions

Challenge	Solution
Profile image preview and inclusion in PDF	Used <code>FileReader</code> API to preview images before rendering resume
Managing multi-line or multiple entries (skills, responsibilities)	Split input by commas or new lines and render as list items
PDF formatting for two-column layout	Used <code>html2pdf.js</code> with proper configuration for A4 size
Smooth navigation between steps	Implemented <code>nextStep()</code> and <code>prevStep()</code> with display toggling

10. Outcome

- A fully functional Resume Builder that generates professional resumes.
- Users can preview and download resumes in PDF format.

- Supports customization for skills, campus involvement, and certificates.
- Provides a clean, organized, and professional layout for all users.

11. Future Enhancements

- Support for multiple work experience and education entries.
- Multiple resume templates and color schemes.
- Drag-and-drop image upload and cropping.
- Cloud sharing or email resume feature.
- Skill ratings, progress bars, and interactive sections.
- Multi-language support.

12. Sample Code

Index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Resume Builder</title>
  <link rel="stylesheet" href="style.css">
  <link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500;700&dis
play=swap" rel="stylesheet">
</head>
<body>

<div class="container">

  <!-- Step 1 -->
  <div class="step" id="step1">
    <h2>Step 1: Personal Info</h2>
    <input type="text" id="name" placeholder="Full Name">
    <input type="text" id="job-title" placeholder="Job Title (e.g., Intern)">
    <input type="text" id="address" placeholder="Address">
    <input type="email" id="email" placeholder="Email">
    <input type="tel" id="phone" placeholder="Phone">
    <input type="file" id="photo" accept="image/*">
    <button onclick="nextStep(1)">Next</button>
  </div>

  <!-- Step 2 -->
```

```

<div class="step" id="step2">
  <h2>Step 2: Education</h2>
  <input type="text" id="degree" placeholder="Degree">
  <input type="text" id="college" placeholder="College/University">
  <input type="text" id="year" placeholder="Year of Passing">
  <button onclick="prevStep(2)">Previous</button>
  <button onclick="nextStep(2)">Next</button>
</div>

<!-- Step 3 -->
<div class="step" id="step3">
  <h2>Step 3: Experience</h2>
  <input type="text" id="company" placeholder="Company Name">
  <input type="text" id="role" placeholder="Role">
  <input type="text" id="duration" placeholder="Duration">
  <textarea id="responsibilities" placeholder="Key responsibilities (one per
line)"></textarea>
  <button onclick="prevStep(3)">Previous</button>
  <button onclick="nextStep(3)">Next</button>
</div>

<!-- Step 4 -->
<div class="step" id="step4">
  <h2>Step 4: Skills</h2>
  <textarea id="skills" placeholder="Skills (comma or new line
separated)"></textarea>
  <button onclick="prevStep(4)">Previous</button>
  <button onclick="nextStep(4)">Next</button>
</div>

<!-- Step 5 -->
<div class="step" id="step5">
  <h2>Step 5: Campus Involvement</h2>
  <textarea id="campus" placeholder="List campus activities (one per
line)"></textarea>
  <button onclick="prevStep(5)">Previous</button>
  <button onclick="nextStep(5)">Next</button>
</div>

<!-- Step 6 -->
<div class="step" id="step6">
  <h2>Step 6: Certificates</h2>
  <textarea id="certificates" placeholder="List certificates (one per
line)"></textarea>
  <button onclick="prevStep(6)">Previous</button>
  <button onclick="nextStep(6)">Next</button>
</div>

```

```

<!-- Step 7 -->
<div class="step" id="step7">
  <h2>Step 7: About Me</h2>
  <textarea id="summary" placeholder="Write a short summary about yourself"></textarea>
  <button onclick="prevStep(7)">Previous</button>
  <button onclick="generateResume()">Create Resume</button>
</div>

<!-- Final Resume -->
<div class="resume" id="finalResume">
  <div class="resume-wrapper" id="resumeContent"></div>
  <div class="button-container">
    <button onclick="downloadPDF()">Download PDF</button>
    <button onclick="editResume()">Edit</button>
  </div>
</div>

</div>

<script src="script.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/html2pdf.js/0.10.1/html2pdf.bundle.min.js"></script>
</body>
</html>

```

style.css:

```

body {
  font-family: 'Roboto', Arial, sans-serif;
  background: #f5f5f5;
  margin: 0;
  padding: 20px;
}

.container {
  max-width: 800px;
  margin: auto;
  background: #fff;
  padding: 25px;
  border-radius: 10px;
  box-shadow: 0 0 15px rgba(0,0,0,0.1);
}

.step {

```



```
    display: none;
}

.step input, .step textarea {
    display: block;
    width: 100%;
    margin: 10px 0;
    padding: 10px;
    font-size: 16px;
    border-radius: 5px;
    border: 1px solid #ccc;
    box-sizing: border-box;
}

.step button {
    padding: 10px 20px;
    margin: 5px;
    font-size: 16px;
    cursor: pointer;
    border: none;
    background-color: #007bff;
    color: #fff;
    border-radius: 5px;
}

.step button:hover {
    background-color: #0056b3;
}

.resume {
    display: none;
    background: #fff;
    border-radius: 10px;
    box-shadow: 0 0 15px rgba(0,0,0,0.1);
    overflow: hidden;
}

.resume-wrapper {
    display: flex;
    flex-direction: row;
}

.left-column {
    background-color: #0056b3;
    color: #fff;
    padding: 30px;
    width: 35%;
    box-sizing: border-box;
}
```

```
}

.right-column {
  padding: 30px;
  width: 65%;
  box-sizing: border-box;
}

.profile-section {
  text-align: center;
  margin-bottom: 20px;
}

.profile-pic {
  width: 120px;
  height: 120px;
  object-fit: cover;
  border-radius: 50%;
  border: 3px solid #fff;
}

.name {
  font-size: 22px;
  font-weight: 700;
  margin-top: 10px;
}

.job-title {
  font-size: 16px;
  font-weight: 300;
  margin-top: 5px;
}

.contact-info p {
  margin: 5px 0;
  font-size: 14px;
}

.section {
  margin-bottom: 20px;
}

.section-title {
  font-size: 16px;
  font-weight: 500;
  color: #fff;
  border-bottom: 2px solid #fff;
  padding-bottom: 5px;
}
```

```

    margin-bottom: 10px;
}

.right-column .section-title {
    color: #0056b3;
    border-bottom: 2px solid #0056b3;
}

.section-content {
    font-size: 14px;
    line-height: 1.5;
}

.section-content h4 {
    margin: 0;
    font-weight: 500;
}

.section-content p {
    margin: 5px 0;
}

.skills-list {
    display: flex;
    flex-wrap: wrap;
}

.skills-list p {
    width: 100%;
    margin: 5px 0;
}

.button-container {
    text-align: center;
    padding: 20px;
}

.icon.education:before { content: ''; }
.icon.skills:before { content: ''; }
.icon.work:before { content: ''; }
.icon.summary:before { content: ''; }

```

script.js:

```

let currentStep = 1;
document.getElementById("step1").style.display = "block";

```

```

function nextStep(step) {
  document.getElementById("step" + step).style.display = "none";
  currentStep++;
  document.getElementById("step" + currentStep).style.display = "block";
}

function prevStep(step) {
  document.getElementById("step" + step).style.display = "none";
  currentStep--;
  document.getElementById("step" + currentStep).style.display = "block";
}

function generateResume() {
  const name = document.getElementById("name").value;
  const jobTitle = document.getElementById("job-title").value;
  const address = document.getElementById("address").value;
  const email = document.getElementById("email").value;
  const phone = document.getElementById("phone").value;
  const degree = document.getElementById("degree").value;
  const college = document.getElementById("college").value;
  const year = document.getElementById("year").value;
  const company = document.getElementById("company").value;
  const role = document.getElementById("role").value;
  const duration = document.getElementById("duration").value;
  const responsibilities = document.getElementById("responsibilities").value
    .split("\n").map(line => line.trim()).filter(line => line);
  const skills = document.getElementById("skills").value
    .split(/,|\n/).map(s => s.trim()).filter(s => s);

  const campus = document.getElementById("campus").value
    .split("\n").map(line => line.trim()).filter(line => line);

  const certificates = document.getElementById("certificates").value
    .split("\n").map(line => line.trim()).filter(line => line);

  const summary = document.getElementById("summary").value;

  const responsibilitiesHTML = responsibilities.map(resp =>
`<li>${resp}</li>`).join('');
  const skillsHTML = skills.map(skill => `<p>${skill}</p>`).join('');
  const campusHTML = campus.map(act => `<li>${act}</li>`).join('');
  const certificatesHTML = certificates.map(cert =>
`<li>${cert}</li>`).join('');

  const photoFile = document.getElementById("photo").files[0];
  let reader = new FileReader();

```

```

reader.onload = function () {
  const photoSrc = reader.result;
  renderResume(photoSrc);
};

if (photoFile) {
  reader.readAsDataURL(photoFile);
} else {
  renderResume("placeholder.jpg"); // fallback image
}

function renderResume(photoSrc) {
  const resumeHTML = `
    <div class="left-column">
      <div class="profile-section">
        
        <h1 class="name">${name}</h1>
        <p class="job-title">${jobTitle}</p>
      </div>

      <div class="section contact-info">
        <p>${address}</p>
        <p>${email}</p>
        <p>${phone}</p>
      </div>

      <div class="section">
        <div class="section-title"><span class="icon
education"></span>Education</div>
        <div class="section-content">
          <h4>${degree}</h4>
          <p>${college}</p>
          <p>${year}</p>
        </div>
      </div>

      <div class="section">
        <div class="section-title"><span class="icon
skills"></span>Skills</div>
        <div class="skills-list">${skillsHTML}</div>
      </div>

      <div class="right-column">
        <div class="section">
          <div class="section-title"><span class="icon summary"></span>About
Me</div>
          <p class="section-content">${summary}</p>

```

```

    </div>

    <div class="section">
      <div class="section-title"><span class="icon work"></span>Work
Experience</div>
      <div class="section-content">
        <h4>${role}</h4>
        <p>${company}</p>
        <p>${duration}</p>
        <ul>${responsibilitiesHTML}</ul>
      </div>
    </div>

    <div class="section">
      <div class="section-title"><span class="icon work"></span>Campus
Involvement</div>
      <div class="section-content">
        <ul>${campusHTML}</ul>
      </div>
    </div>

    <div class="section">
      <div class="section-title"><span class="icon
work"></span>Certificates</div>
      <div class="section-content">
        <ul>${certificatesHTML}</ul>
      </div>
    </div>
  `;

  document.getElementById("resumeContent").innerHTML = resumeHTML;
  document.getElementById("finalResume").style.display = "block";
  document.querySelectorAll(".step").forEach(s => s.style.display = "none");
}
}

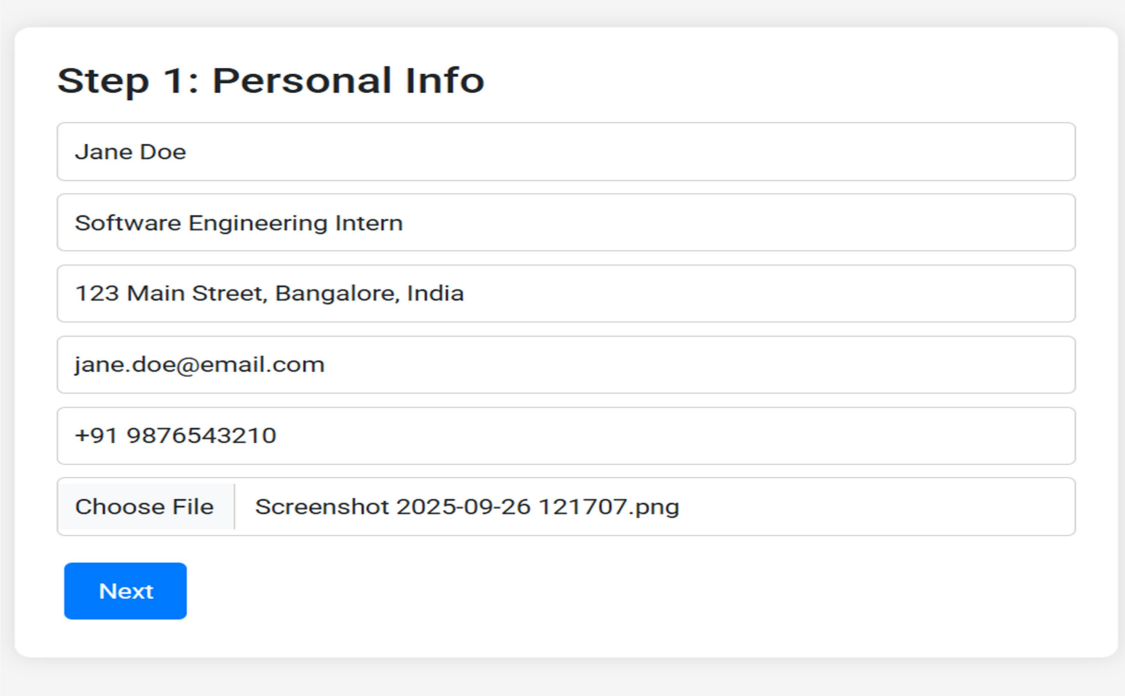
function downloadPDF() {
  const element = document.getElementById("resumeContent");
  const opt = {
    margin:      [10, 10, 10, 10], // top, left, bottom, right (in mm)
    filename:    'Resume.pdf',
    image:       { type: 'jpeg', quality: 0.98 },
    html2canvas: { scale: 2 },
    jsPDF:       { unit: 'mm', format: 'a4', orientation: 'portrait' }
  };
  html2pdf().set(opt).from(element).save();
}

```

```
function editResume() {  
  document.getElementById("finalResume").style.display = "none";  
  currentStep = 1;  
  document.getElementById("step1").style.display = "block";  
}
```

13. Screenshots of Final Output:

Step1:



The screenshot shows a web form titled "Step 1: Personal Info". It contains several input fields with the following text: "Jane Doe", "Software Engineering Intern", "123 Main Street, Bangalore, India", "jane.doe@email.com", and "+91 9876543210". Below these is a file upload section with a "Choose File" button and a selected file named "Screenshot 2025-09-26 121707.png". At the bottom left is a blue "Next" button.

Step 1: Personal Info

Jane Doe

Software Engineering Intern

123 Main Street, Bangalore, India

jane.doe@email.com

+91 9876543210

Choose File Screenshot 2025-09-26 121707.png

Next

Step 2:

Step 2: Education

B.Tech in Computer Science

Christ University

May 2020

Previous

Next

Step 3:

Step 3: Experience

ABC Tech

Frontend Developer Intern

June 2024 - Aug 2024

Developed responsive web pages using HTML, CSS, and Bootstrap.
Implemented dynamic features using JavaScript and jQuery.

Previous

Next

Step 4:

Step 4: Skills

Python

JavaScript

HTML/CSS

Previous

Next

Step 5:

Step 5: Campus Involvement

Member of Coding Club

Organized Hackathons and workshops

Volunteer in community tech events

Previous

Next

Step 6:

Step 6: Certificates

Certified JavaScript Developer - XYZ Institute

Frontend Web Development - ABC Academy

Previous

Next

Step 7:

Step 7: About Me

Passionate software engineering student with hands-on experience in web development and a strong interest in front-end technologies.



Previous

Create Resume

Final report of resume

Note: This is just an example!!



Jane Doe

Software Engineering Intern

123 Main Street,
Bangalore, India
jane.doe@email.com
+91 9876543210

Education

B.Tech in Computer Science
Christ University
May 2025

Skills

Python
JavaScript
HTML/CSS
Bootstrap

About Me

Passionate software engineering student with hands-on experience in web development and a strong interest in front-end technologies.

Work Experience

Frontend Developer Intern

ABC Tech

June 2024 - Aug 2024

- Developed responsive web pages using HTML, CSS, and Bootstrap.
- Implemented dynamic features using JavaScript and jQuery.
- Collaborated with backend team to integrate APIs.

Campus Involvement

- Member of Coding Club
- Organized Hackathons and workshops
- Volunteer in community tech events

Certificates

- Certified JavaScript Developer - XYZ Institute
- Frontend Web Development - ABC Academy

Download PDF

Edit

14. Conclusion

The Resume Builder project provides a practical, easy-to-use solution for creating professional resumes. By combining HTML, CSS, and JavaScript with dynamic PDF generation, the application saves users time while ensuring a high-quality, structured output. Future improvements can enhance customization, usability, and sharing options, making it a comprehensive resume management tool.