East West University

Department of Computer Science and Engineering (CSE)
Semester: (Fall, Year: 2025), B.Sc. in CS E

Preparing Dynamic Portfolio(Lab-02)

Course Code: CSE412
Course Title: Software Engineering
Section: 5

Submitted to:

Nishat Tasnim Niloy

Lecturer, Department of Computer Science and Engineering

Submitted By:

Abdul Wadud
ID: 2022-2-60-133

Submission Date: 22ndOctober, 2025

Website Link:

Source Codes:
HTML:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width,initial-scale=1" />
    <title>Dynamic Portfolio Generator</title>
    <link rel="stylesheet" href="style.css" />
    <script src="https://cdnjs.cloudflare.com/ajax/libs/html2pdf.js/0.9.3/html2pdf.bundle.min.js"></script>
  </head>

  <body>
    <header class="topbar">
      <h1>Welcome to Dynamic Portfolio Generator</h1>
      <p>Saves to your informations and creates PDF</p>
      <button id="logoutBtn">Logout</button>
    </header>

    <!-- 🔐 Simple Login Section -->
    <section id="loginSection" class="login-container">
      <h2>Login to Continue</h2>
      <input
        type="email"
        id="loginEmail"
        placeholder="Enter your email"
        required
      />
      <input
        type="password"
        id="loginPassword"
        placeholder="Enter your password"
        required
      />
```

```html
      <button id="loginBtn">Login</button>
  </section>

  <main class="container" id="mainContent" style="display: none">
    <section class="form-column">
      <form id="portfolioForm" autocomplete="off">
        <fieldset>
          <legend>Personal Information</legend>
          <label
            >Full name
            <input
              type="text"
              id="fullName"
              required
              maxlength="80"
              placeholder="Enter your full name"
            />
          </label>
          <label
            >Contact info (email / phone / website)
            <input
              type="text"
              id="contactInfo"
              required
              maxlength="120"
              placeholder="email, phone or website"
            />
          </label>
          <label
            >Photo (.jpg/.png)
            <input
              type="file"
              accept="image/png,image/jpeg"
              id="photoInput"
            />
          </label>
          <label
            >Short bio
            <textarea
              id="bio"
              rows="4"
              maxlength="600"
              placeholder="Write a short bio..."
```

```html
      ></textarea>
    </label>
  </fieldset>

  <fieldset>
    <legend>Skills</legend>
    <label
      >Soft skills
      <input
        type="text"
        id="softSkills"
        placeholder="e.g. communication, teamwork, leadership"
      />
    </label>
    <label
      >Technical skills
      <input
        type="text"
        id="techSkills"
        placeholder="e.g. JavaScript, React, CSS"
      />
    </label>
  </fieldset>

  <fieldset>
    <legend>Academic Background (optional)</legend>
    <select name="degree">
      <option>Choose One</option>
      <option>SSC</option>
      <option>HSC</option>
      <option>BSc</option>
      <option>MSc</option>
    </select>
    <div class="small-grid">
      <input type="text" id="institute" placeholder="Institute name" />
      <input type="text" id="grade" placeholder="Grade / CGPA" />

    </div>
    <div class="small-grid">
      <input type="text" id="year" placeholder="Year (e.g. 2024)" />

    </div>
    <br>
```

```html
<select name="degree">
   <option>Choose One</option>
   <option>SSC</option>
   <option>HSC</option>
   <option>BSc</option>
   <option>MSc</option>
</select>
<div class="small-grid">
  <input type="text" id="institute" placeholder="Institute name" />
  <input type="text" id="grade" placeholder="Grade / CGPA" />

</div>
<div class="small-grid">
  <input type="text" id="year" placeholder="Year (e.g. 2024)" />

</div>
<br>
<select name="degree">
   <option>Choose One</option>
   <option>SSC</option>
   <option>HSC</option>
   <option>BSc</option>
   <option>MSc</option>
</select>
<div class="small-grid">
  <input type="text" id="institute" placeholder="Institute name" />
  <input type="text" id="grade" placeholder="Grade / CGPA" />

</div>

<div class="small-grid">
  <input type="text" id="year" placeholder="Year (e.g. 2024)" />

</div>
<br>
<select name="degree">
   <option>Choose One</option>
   <option>SSC</option>
   <option>HSC</option>
   <option>BSc</option>
   <option>MSc</option>
</select>
<div class="small-grid">
```

```html
      <input type="text" id="institute" placeholder="Institute name" />
      <input type="text" id="grade" placeholder="Grade / CGPA" />

    </div>

    <div class="small-grid">
      <input type="text" id="year" placeholder="Year (e.g. 2024)" />

    </div>
  </fieldset>

  <fieldset>
    <legend>Work Experience</legend>
    <div class="exp-row">
      <input type="text" id="company" placeholder="Company name"
/>

      <input
        type="text"
        id="duration"
        placeholder="Duration (e.g. 2022 - 2024)"
      />
    </div>
    <label
      >Responsibilities (one per line)
      <textarea
        id="responsibilities"
        rows="4"
        placeholder="Responsibility 1&#10;Responsibility 2"
      ></textarea>
    </label>
  </fieldset>

  <fieldset>
    <legend>Projects / Publications (optional)</legend>
    <label>
      Add projects or publication titles and short descriptions (one per
      line)
      <textarea
        id="projects"
        rows="4"
        placeholder="Project A - Built X using Y"
      ></textarea>
    </label>
```

```html
          </fieldset>

          <div class="form-actions">
            <button type="button" id="saveBtn">Save Profile</button>
            <button type="button" id="generatePdfBtn">Generate
PDF</button>
            <button type="button" id="clearFormBtn" class="danger">
              Clear Form
            </button>
          </div>
        </form>

        <section class="saved-profiles">
          <h3>Saved Profiles</h3>
          <ul id="profilesList" class="profiles-list"></ul>
        </section>
      </section>

      <section class="preview-column">
        <h2>Live Preview</h2>
        <div id="preview" class="portfolio-card">
          <div class="card-header">
            <img id="previewPhoto" alt="Photo" src="" />
            <div class="header-text">
              <h3 id="previewName">Full Name</h3>
              <p id="previewContact">Contact information</p>
            </div>
          </div>

          <section class="card-section">
            <h4>About</h4>
            <p id="previewBio">Short bio appears here.</p>
          </section>

          <section class="card-section">
            <h4>Skills</h4>
            <p><strong>Soft:</strong> <span
id="previewSoft">—</span></p>
            <p><strong>Technical:</strong> <span
id="previewTech">—</span></p>
          </section>

          <section class="card-section" id="previewAcademicsSection">
```

```html
        <h4>Academics</h4>
        <p id="previewAcademics">Institute — Degree — Year —
Grade</p>
      </section>

      <section class="card-section">
        <h4>Work Experience</h4>
        <p id="previewCompany">Company (Duration)</p>
        <ul id="previewResponsibilities"></ul>
      </section>

      <section class="card-section" id="previewProjectsSection">
        <h4>Projects / Publications</h4>
        <ul id="previewProjects"></ul>
      </section>
    </div>
  </section>
</main>

<footer class="footer">
  <small>Developed by Abdul Wadud</small>
</footer>

<script src="./app.js"></script>
</body>
</html>
```

CSS:

```css
:root {
    --accent: #19945b;
    --tColor: #F9F7F7;
    --muted: #DBE2EF;
    --bg: red;
    --card:red;
    --danger: #ff0000a1;
    --form: red;
    --max-width: 1000px;
    font-family: 'Times New Roman', Times, serif;
}

* {
    box-sizing: border-box
}

body {
    margin: 0;
    background: linear-gradient(180deg, #112D4E 0%, var(--bg) 100%);
    color: #111827;
    min-height: 100vh;
    display: flex;
    flex-direction: column;
    align-items: center;
    padding: 18px;
}

.topbar {
    text-align: center;
    margin-bottom: 24px;
    margin-top: 6px;
}

.topbar h1 {
    margin: 0;
    font-size: 36px;
```

```css
    color: var(--tColor)
}

.topbar p {
    margin: 0;
    font-size: 20px;
    color: var(--muted)
}

.topbar .muted {
    margin: 4px 0 0;
    color: var(--muted);
    font-size: 13px
}

#logoutBtn {
    display: none;
    margin-top: 10px;
    background-color: green
}

.container {
    width: 100%;
    max-width: var(--max-width);
    display: grid;
    grid-template-columns: 1fr 420px;
    gap: 20px;
    align-items: start;
}

.login-container {
    max-width: 600px;
    margin: 40px auto;
    text-align: center
}

.login-container input {
    width: 100%;
    padding: 10px;
    margin: 10px 0;
    border: 1px solid #ccc;
    border-radius: 5px;
}
```

```css
.login-container button {
    padding: 10px 20px;
    border: none;
    background-color: green;
    color: white;
    border-radius: 6px;
    cursor: pointer;
}

.login-container h2 {
    color: white;
}

/* Form column */
.form-column {
    background: var(--form);
    padding: 18px;
    border-radius: 12px;
    box-shadow: 0 6px 20px rgba(15, 23, 42, 0.06);
}

form fieldset {
    border: 1px solid var(--tColor);
    padding: 12px;
    margin-bottom: 12px;
    border-radius: 8px;
}

form legend {
    font-weight: 600;
    padding: 0 6px;
    color: var(--tColor);
}

label {
    display: block;
    margin-bottom: 10px;
    font-size: 14px;
    color: var(--muted);
}

input[type="text"],
```

```css
textarea,
input[type="file"] {
    width: 100%;
    padding: 8px 10px;
    border: 1px solid #d7dbe6;
    border-radius: 6px;
    margin-top: 6px;
    font-size: 14px;
}

.small-grid {
    display: grid;
    grid-template-columns: 1fr 1fr;
    gap: 8px
}

.exp-row {
    display: grid;
    grid-template-columns: 1fr 180px;
    gap: 8px
}

.form-actions {
    display: flex;
    gap: 8px;
    margin-top: 8px;
    align-items: center;
}

button {
    border: none;
    padding: 8px 12px;
    border-radius: 8px;
    cursor: pointer;
    font-weight: 600;
    color: #fff;
}

#saveBtn {
    background: magenta;
}

#generatePdfBtn {
```

```css
  background: green;
}

button.danger {
  background: blue;
}

button:active {
  transform: translateY(1px)
}

.saved-profiles {
  margin-top: 14px
}

.saved-profiles h3 {
  color: var(--tColor);
}

.profiles-list {
  list-style: none;
  padding: 0;
  margin: 6px 0 0;
  display: flex;
  flex-direction: column;
  gap: 8px
}

.profiles-list li {
  display: flex;
  align-items: center;
  justify-content: space-between;
  background: #fafafa;
  padding: 8px;
  border-radius: 8px;
  border: 1px solid #f0f0f0;
}

.profile-actions button {
  background: transparent;
  color: var(--accent);
  border: none;
  padding: 6px;
```

```css
    cursor: pointer
}

/* Preview column */
.preview-column {
    position: sticky;
    top: 20px;
    height: fit-content;
}

.preview-column h2 {
    color: var(--tColor);
}

.portfolio-card {
    width: 360px;
    background: var(--card);
    padding: 14px;
    border-radius: 10px;
    box-shadow: 0 8px 24px rgba(2, 6, 23, 0.06);
    border: 1px solid #eef2ff;
}

.card-header {
    display: flex;
    gap: 12px;
    align-items: center
}

.card-header img {
    width: 84px;
    height: 84px;
    border-radius: 8px;
    object-fit: cover;
    background: var(--tColor);
    border: 1px solid var(--tColor);
}

.header-text h3 {
    margin: 0;
    font-size: 18px;
    color: var(--tColor);
}
```

```css
#previewContact {
    color: var(--muted);
    font-size: 13px;
    margin-top: 6px
}

.card-section {
    border-top: 1px dashed #eef2ff;
    padding-top: 10px;
    margin-top: 10px
}

.card-section h4 {
    margin: 0 0 8px;
    font-size: 14px;
    color: var(--tColor)
}

.card-section p,
.card-section ul {
    margin: 0;
    font-size: 13px;
    color: var(--muted);
}

.card-section ul {
    margin-top: 6px;
    padding-left: 18px
}

.footer {
    margin-top: 12px;
    color: var(--muted);
    font-size: 13px
}

/* Responsive */
@media (max-width:980px) {
    .container {
        grid-template-columns: 1fr
    }
```

```css
  .preview-column {
      position: static
  }

  .portfolio-card {
      width: 100%
  }
}
```

JavaScript:

```javascript
// ========================= LOGIN & LOGOUT
===========================
const loginSection = document.getElementById("loginSection");
const mainContent = document.getElementById("mainContent");
const loginBtn = document.getElementById("loginBtn");
const logoutBtn = document.getElementById("logoutBtn");

// Login
loginBtn.addEventListener("click", () => {
  const email = document.getElementById("loginEmail").value.trim();
  const password =
document.getElementById("loginPassword").value.trim();

  if (!email || !password) {
    alert("Please enter both email and password.");
    return;
  }

  // Save user login
  localStorage.setItem("loggedInUser", email);
  loginSection.style.display = "none";
  mainContent.style.display = "flex";
  logoutBtn.style.display = "inline-block";
});

// Logout
logoutBtn.addEventListener("click", () => {
  localStorage.removeItem("loggedInUser");
  logoutBtn.style.display = "none";
  location.reload();
});

// Auto login check
```

```javascript
window.addEventListener("DOMContentLoaded", () => {
  const user = localStorage.getItem("loggedInUser");
  if (user) {
    loginSection.style.display = "none";
    mainContent.style.display = "flex";
    logoutBtn.style.display = "inline-block";
  }
});

// =========================== FORM & PREVIEW
============================
const form = document.getElementById("portfolioForm");

// Preview elements
const previewName = document.getElementById("previewName");
const previewContact = document.getElementById("previewContact");
const previewPhoto = document.getElementById("previewPhoto");
const previewBio = document.getElementById("previewBio");
const previewSoft = document.getElementById("previewSoft");
const previewTech = document.getElementById("previewTech");
const previewAcademics =
document.getElementById("previewAcademics");
const previewCompany =
document.getElementById("previewCompany");
const previewResponsibilities =
document.getElementById("previewResponsibilities");
const previewProjects = document.getElementById("previewProjects");

// Update preview in real-time
form.addEventListener("input", updatePreview);

function updatePreview() {
  previewName.textContent =
document.getElementById("fullName").value || "Full Name";
  previewContact.textContent =
document.getElementById("contactInfo").value || "Contact information";
  previewBio.textContent = document.getElementById("bio").value ||
"Short bio appears here.";
  previewSoft.textContent = document.getElementById("softSkills").value
|| "—";
  previewTech.textContent =
document.getElementById("techSkills").value || "—";
```

```javascript
  // Company & duration
  const company = document.getElementById("company").value;
  const duration = document.getElementById("duration").value;
  previewCompany.textContent = company && duration ? `${company}
(${duration})` : "Company (Duration)";

  // Responsibilities
  const respText =
document.getElementById("responsibilities").value.trim();
  previewResponsibilities.innerHTML = "";
  if (respText) {
    respText.split("\n").forEach(line => {
      if (line.trim()) {
        const li = document.createElement("li");
        li.textContent = line.trim();
        previewResponsibilities.appendChild(li);
      }
    });
  }

  // Projects
  const projectsText = document.getElementById("projects").value.trim();
  previewProjects.innerHTML = "";
  if (projectsText) {
    projectsText.split("\n").forEach(line => {
      if (line.trim()) {
        const li = document.createElement("li");
        li.textContent = line.trim();
        previewProjects.appendChild(li);
      }
    });
  }

  // Academics (combine all entries)
  const degrees =
Array.from(document.querySelectorAll("select[name='degree']")).map(sel
=> sel.value);
  const institutes =
Array.from(document.querySelectorAll("#institute")).map(inp =>
inp.value);
  const grades =
Array.from(document.querySelectorAll("#grade")).map(inp => inp.value);
  const years = Array.from(document.querySelectorAll("#year")).map(inp
```
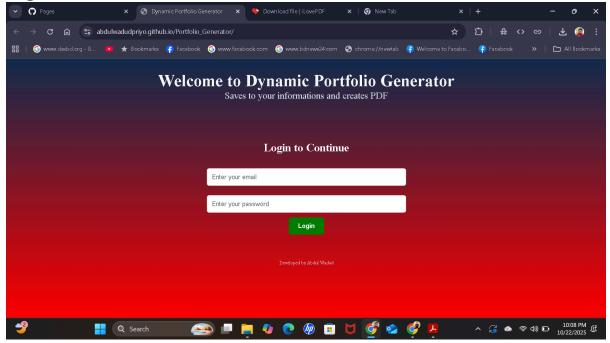
```javascript
=> inp.value);

  const academicList = degrees.map((deg, i) => {
    if (deg !== "Choose One" && institutes[i]) {
      return `${institutes[i]} — ${deg} — ${years[i]} — ${grades[i]}`;
    }
    return null;
  }).filter(Boolean);

  previewAcademics.textContent = academicList.length
    ? academicList.join("\n")
    : "Institute — Degree — Year — Grade";
}

// ========================= PHOTO PREVIEW
=========================
document.getElementById("photoInput").addEventListener("change",
function (e) {
  const file = e.target.files[0];
  if (file) {
    const reader = new FileReader();
    reader.onload = function (event) {
      previewPhoto.src = event.target.result;
    };
    reader.readAsDataURL(file);
  }
});

// ========================= SAVE PROFILE
=========================
const saveBtn = document.getElementById("saveBtn");
const profilesList = document.getElementById("profilesList");

saveBtn.addEventListener("click", () => {
  const profile = {
    name: document.getElementById("fullName").value,
    contact: document.getElementById("contactInfo").value,
    bio: document.getElementById("bio").value,
    softSkills: document.getElementById("softSkills").value,
    techSkills: document.getElementById("techSkills").value,
    academics: previewAcademics.textContent,
    company: document.getElementById("company").value,
    duration: document.getElementById("duration").value,
```

```javascript
      responsibilities: document.getElementById("responsibilities").value,
      projects: document.getElementById("projects").value,
      photo: previewPhoto.src
    };

    if (!profile.name) {
      alert("Please enter your name before saving!");
      return;
    }

    let profiles = JSON.parse(localStorage.getItem("profiles")) || [];
    profiles.push(profile);
    localStorage.setItem("profiles", JSON.stringify(profiles));

    alert("Profile saved successfully!");
    loadProfiles();
  });

  // ========================== LOAD PROFILES
  ============================
  function loadProfiles() {
    profilesList.innerHTML = "";
    const profiles = JSON.parse(localStorage.getItem("profiles")) || [];
    profiles.forEach((p, index) => {
      const li = document.createElement("li");
      li.textContent = p.name;
      li.style.cursor = "pointer";
      li.addEventListener("click", () => loadProfile(index));
      profilesList.appendChild(li);
    });
  }

  function loadProfile(index) {
    const profiles = JSON.parse(localStorage.getItem("profiles")) || [];
    const p = profiles[index];
    if (!p) return;

    document.getElementById("fullName").value = p.name;
    document.getElementById("contactInfo").value = p.contact;
    document.getElementById("bio").value = p.bio;
    document.getElementById("softSkills").value = p.softSkills;
    document.getElementById("techSkills").value = p.techSkills;
    document.getElementById("company").value = p.company;
```
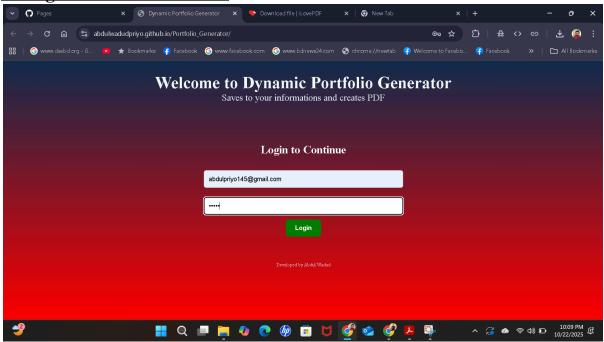
```javascript
    document.getElementById("duration").value = p.duration;
    document.getElementById("responsibilities").value = p.responsibilities;
    document.getElementById("projects").value = p.projects;
    previewPhoto.src = p.photo || "";

    updatePreview();
  }
  loadProfiles();

  // =========================== CLEAR FORM
  ===========================
  document.getElementById("clearFormBtn").addEventListener("click", ()
  => {
    if (confirm("Clear all form data?")) {
      form.reset();
      previewPhoto.src = "";
      updatePreview();
    }
  });

  // =========================== GENERATE PDF
  ===========================
  document.getElementById("generatePdfBtn").addEventListener("click",
  () => {
    const element = document.getElementById("preview");
    const opt = {
      margin: 0.3,
      filename: `${document.getElementById("fullName").value ||
  "portfolio"}.pdf`,
      image: { type: "jpeg", quality: 0.98 },
      html2canvas: { scale: 2 },
      jsPDF: { unit: "in", format: "a4", orientation: "portrait" }
    };
    html2pdf().set(opt).from(element).save();
  });
```
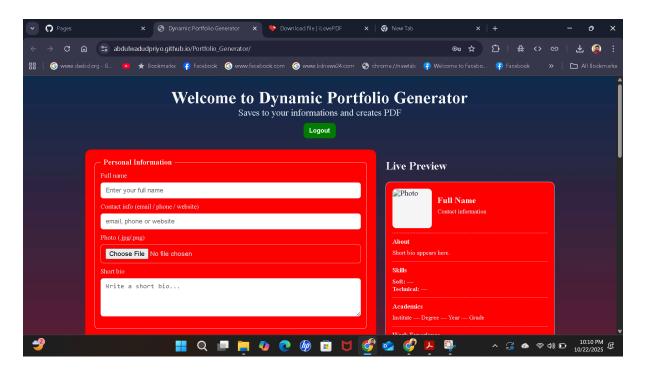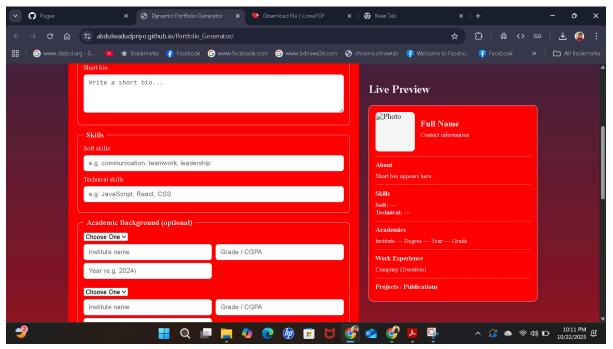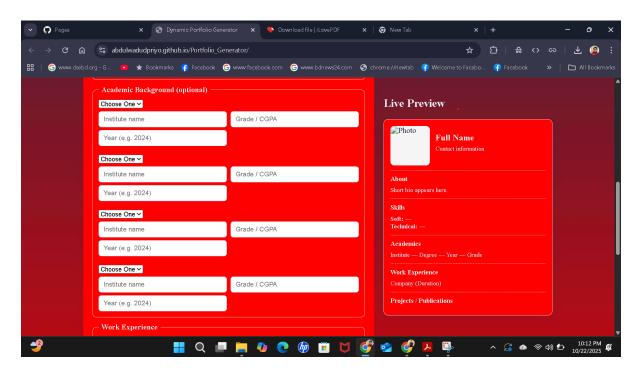
ScreenShots:
Login Section:

Giving Email and Password:

Homepage:

Pages | Dynamic Portfolio Generator | Download file | iLovePDF | New Tab

abdulwadudpriyo.github.io/Portfolio_Generator/

www.dsebd.org - G... | YouTube | Bookmarks | Facebook | www.facebook.com | www.bdnews24.com | chrome://newtab | Welcome to Facebo... | Facebook | All Bookmarks

Academic Background (optional)

Choose One ▾

| Institute name | Grade / CGPA |

Year (e.g. 2024)

Choose One ▾

| Institute name | Grade / CGPA |

Year (e.g. 2024)

Choose One ▾

| Institute name | Grade / CGPA |

Year (e.g. 2024)

Choose One ▾

| Institute name | Grade / CGPA |

Year (e.g. 2024)

Work Experience

Live Preview

Photo
Full Name
Contact information

About
Short bio appears here.

Skills
Soft: —
Technical: —

Academics
Institute — Degree — Year — Grade

Work Experience
Company (Duration)

Projects / Publications

10:12 PM
10/22/2025

Pages | Dynamic Portfolio Generator | Download file | iLovePDF | New Tab

abdulwadudpriyo.github.io/Portfolio_Generator/

www.dsebd.org - G... | YouTube | Bookmarks | Facebook | www.facebook.com | www.bdnews24.com | chrome://newtab | Welcome to Facebo... | Facebook | All Bookmarks

Work Experience

| Company name | Duration (e.g. 2022 - 202 |

Responsibilities (one per line)

```
Responsibility 1
Responsibility 2
```

Projects / Publications (optional)

Add projects or publication titles and short descriptions (one per line)

```
Project A - Built X using Y
```

Save Profile **Generate PDF** **Clear Form**

Saved Profiles

Wadud

Live Preview

Photo
Full Name
Contact information

About
Short bio appears here.

Skills
Soft: —
Technical: —

Academics
Institute — Degree — Year — Grade

Work Experience
Company (Duration)

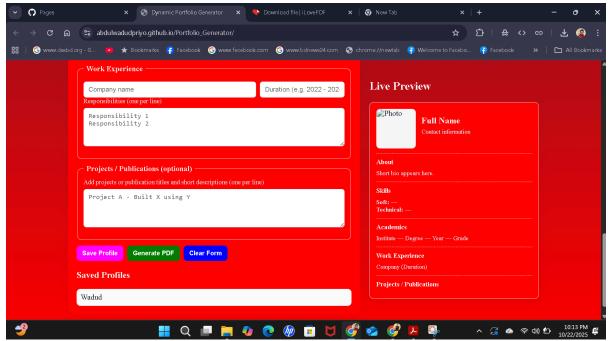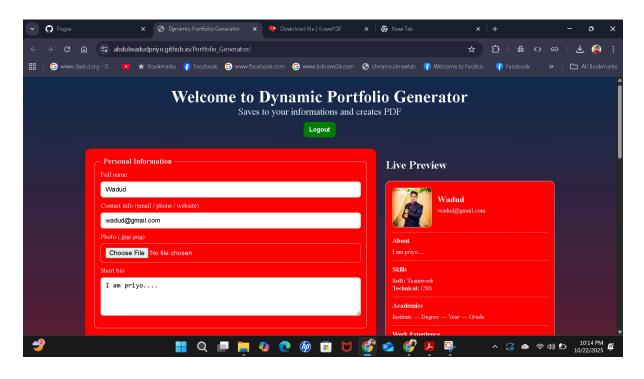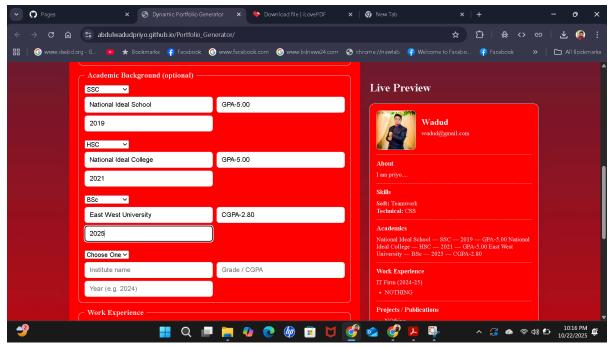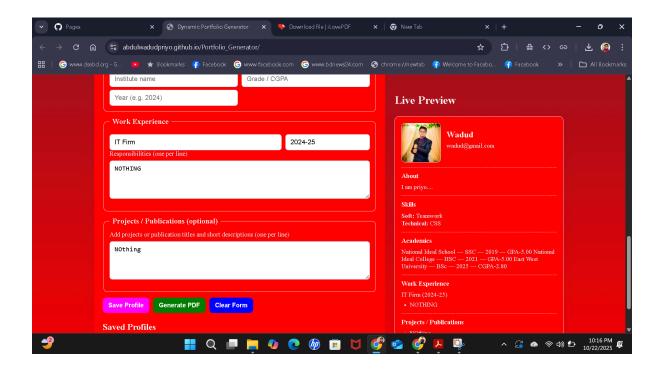Projects / Publications

10:13 PM
10/22/2025

After Filling All The Section:

After Generating PDF:

file:///C:/Users/abdul/OneDrive/Desktop/Wadud%20(1).pdf