### INTRODUCTION

#### 1.1 BACKGROUND

The concept of creating a web-based portfolio management system originates from the growing need for individuals to showcase their professional profiles dynamically. Traditional resume-building methods often lack flexibility and fail to leverage modern technology for user-friendly interfaces. Over time, advancements in web technologies and frameworks like Django have paved the way for highly customizable, scalable, and interactive platforms. The Public Portfolio Management System leverages Django (a Python-based web framework) to provide a comprehensive, open-source solution for individuals to create, update, and share their professional portfolios effortlessly. Unlike conventional methods, this system integrates modern design principles with features like ATS (Applicant Tracking System)-friendly resume templates and enhanced accessibility. It addresses the demands of a digital-first era by enabling public viewing and encouraging collaboration.

With the rise of digital employment platforms and job-hunting tools, this project focuses on unifying professional representation and job-seeking capabilities in one platform. The open-source nature ensures community-driven improvements, fostering innovation and inclusivity.

#### 1.2 OVERVIEW

The Public Portfolio Management System is an open-source, web-based application designed to facilitate the creation and sharing of professional profiles. This system allows users to:

- Add key information such as education, work experience, skills, and certifications.
- Generate ATS-friendly resume templates suitable for modern recruitment systems.
- Update their portfolios dynamically, ensuring relevance and accuracy.
- Enable public access to profiles, making it easier for potential employers and collaborators to explore them.

Built on Django, the system is robust, scalable, and secure. Users interact with a simple yet powerful interface that ensures smooth navigation and ease of use.

The table below outlines some of the primary features

Feature	Description	Purpose
Dynamic	Allows users to edit and update their profiles in	Keeps information up-to-
Portfolio	real-time.	date.
Updates		
ATS-friendly	Provides resume templates optimized for	Enhances job application
Templates	Applicant Tracking Systems.	success.
Public Profile	Offers public URLs for easy sharing of	Simplifies professional
Sharing	portfolios.	networking.
Django	Utilizes the Django framework for secure,	Ensures reliability and
Framework	scalable, and efficient development.	performance.

Table 1.1 Primary Features

#### 1.3 PROBLEM STATEMENT

The challenges faced by job seekers often stem from traditional methods of creating and managing resumes and portfolios. Key issues include:

- Lack of standardized and ATS-compatible resume formats, leading to rejection in digital recruitment processes.
- Limited accessibility to professional portfolio management systems for individuals without technical expertise.
- Absence of a centralized, public platform to showcase skills and qualifications effectively.

The Public Portfolio Management System addresses these issues by providing an open-source, user-friendly platform that bridges the gap between job seekers and recruiters.

### 1.4 OBJECTIVE

The primary objective of the project is to develop an innovative platform that simplifies the process of creating, managing, and sharing professional portfolios. Key goals include:

• Providing a unique platform for job seekers to enhance their visibility in the competitive job market.

- Offering ATS-friendly resume templates that align with modern recruitment standards.
- Encouraging collaboration and feedback by enabling public access to profiles.
- Leveraging the open-source community for continuous improvement and innovation.
- Minimizing costs by using open-source technologies and eliminating proprietary dependencies.

### 1.5 IMPLICATION

The implementation of the Public Portfolio Management System has far-reaching implications for job seekers and recruiters alike:

- 1. **Enhanced Accessibility:** Open-source nature ensures inclusivity for users across demographics.
- 2. **Efficiency in Recruitment:** ATS-friendly resumes streamline the hiring process for employers.
- 3. Global Reach: Publicly accessible profiles allow individuals to connect with opportunities worldwide.
- 4. Collaboration and Feedback: Public access encourages peer reviews and collaborative updates.
- 5. **Future-proof Design:** Scalable architecture ensures the platform evolves with technological advancements.

# **Example Use Case:**

A software developer creates a portfolio on the system, adding their skills, certifications, and project experience. Using the built-in tools, they generate an ATS-friendly resume to apply for jobs. Simultaneously, their public profile attracts recruiters, who can view their qualifications directly.

The table below illustrates the benefits for stakeholders:

Stakeholder	Benefit	
Job Seekers	Easy-to-use platform, ATS-friendly resumes, public visibility.	
Recruiters	Access to standardized, well-organized profiles.	
Open-source	Opportunity to contribute to the project, enhancing its functionality	
Community	and reach.	

Table 1.2 Benefits for Stakeholders

LITERATURE SURVEY

2.1 Job-Seeker Platforms with Open-Source Collaboration

**AUTHORS**: Lin, Chen, and Zhang

**YEAR**: 2023

This research focuses on creating platforms that empower job seekers through open-

source tools. The authors present a Django-based system for building portfolios and resumes,

emphasizing public accessibility and collaboration. The study introduces features such as job

application tracking, skill validation, and public portfolio sharing. The authors discuss the role

of the open-source community in enhancing platform capabilities. Challenges related to data

integrity and scalability are addressed by leveraging cloud-based storage and Django's ORM

(Object-Relational Mapping).

2.2 Dynamic Web-Based Portfolio System

AUTHORS: Sharma, Gupta, and Rao

**YEAR**: 2022

This paper emphasizes the need for dynamic web-based systems for managing and

showcasing professional portfolios. The authors propose a system that allows users to build

and customize their portfolios online. The study focuses on creating a modular, scalable

architecture using modern web technologies like Django. Key features include real-time

updates, public access to profiles, and integration with third-party APIs for skills verification.

The system enhances user experience by offering intuitive interfaces and streamlining portfolio

sharing. Challenges such as data security and user authentication are also discussed, with

proposed solutions leveraging Django's in-built security mechanisms.

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2.3 Human-Centric Portfolio Systems

**AUTHORS**: Ahmed and Khan

**YEAR**: 2021

This paper explores the development of portfolio management systems that prioritize

user needs. By conducting surveys and usability testing, the authors identify critical features

desired by job seekers, such as easy editing, multimedia integration, and public access. The

study introduces a system built on Django, which enables users to create personalized

portfolios with a focus on simplicity and accessibility. The system also includes modules for

exporting ATS-friendly resumes. The paper concludes with recommendations for making the

platform more inclusive, such as integrating language support and accessibility features for

individuals with disabilities.

2.4 Modern Approaches to Resume Building

**AUTHORS**: Davis and Lee

**YEAR: 2020** 

This paper discusses the evolution of resume-building tools, focusing on user-friendly

design and ATS compliance. The authors propose a system that automates the resume creation

process while maintaining a high degree of customization. The tool, built using Django, offers

pre-designed templates optimized for different industries. The study highlights the role of

community feedback in improving the platform's usability. Advanced features, such as

machine learning-based skill suggestions, are also explored.

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2.5 Open-Source ATS-Friendly Resume Generator

**AUTHORS**: Patel, Mehta, and Desai

**YEAR**: 2020

This study investigates the importance of ATS-friendly resume templates in modern

recruitment processes. The authors developed an open-source resume builder that supports

multiple ATS-optimized formats. The paper highlights the significance of creating resumes

that can bypass automated filters used by hiring systems. Using Python and Django, the

proposed tool ensures flexibility, scalability, and user-friendliness. The system offers pre-built

templates, allowing users to tailor their resumes to specific job roles. The research also analyzes

feedback from recruiters, underscoring the positive impact of ATS compliance on hiring

outcomes.

2.6 Collaborative Portfolio Platforms

**AUTHORS**: Wilson and Smith

**YEAR**: 2019

This research paper introduces a collaborative platform where professionals can build

and share portfolios. It addresses the challenge of portfolio customization by enabling real-time

collaboration between users and peers. Built using open-source frameworks, the platform

allows community-driven enhancements. The authors focus on the integration of public

visibility features, allowing users to share profiles with potential employers seamlessly.

Security concerns, such as unauthorized access and data breaches, are addressed using

encryption and access control policies. The findings reveal significant improvements in user

engagement and professional networking.

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### **SYSTEM ANALYSIS**

# 3.1 EXISTING SYSTEM

Several platforms currently exist for managing professional portfolios, each with unique features. However, they often have limitations, such as restricted access, paid services, or lack of ATS-friendly templates.

Below are some examples of existing solutions and their challenges:

<b>Existing Systems</b>	Features	Limitations
LinkedIn	Online professional	Limited resume
	networking with portfolio	customization and no ATS
	features.	optimization for downloaded
		resumes.
Canva	Design tool for creating	Requires paid subscription for
	portfolios and resumes.	advanced features; lacks
		public access and sharing
		options.
Wix Portfolio	Website builder with	Limited ATS compliance;
	customizable portfolio	requires technical skills for
	templates.	customization.
Novoresume	Offers ATS-friendly resume	Restricted to resumes only;
	templates.	no dynamic profile
		management or public
		viewing.
GitHub Pages	Hosting platform for	Tailored to developers; lacks
	developer portfolios.	features for other professions.

Table 3.1 Existing System

### 3.2 PROPOSED SYSTEM

The Public Portfolio Management System is designed as an open-source, web-based application to overcome the limitations of existing systems. This platform provides:

1. Dynamic Portfolio Management: Users can create, update, and manage their portfolios in

real time.

- 2. ATS-Friendly Resume Templates: Pre-designed templates optimized for Applicant Tracking Systems ensure higher compatibility with recruitment tools.
- 3. Public Profile Access: Users can share a public URL for easy access by recruiters or collaborators.
- 4. Customizability and Scalability: Built on Django, the system offers robust and scalable solutions.
- 5. Open-Source Collaboration: Encourages continuous improvement by allowing contribution developer community.

### 3.3 CLASS DIAGRAM OF PROPOSED SYSTEM

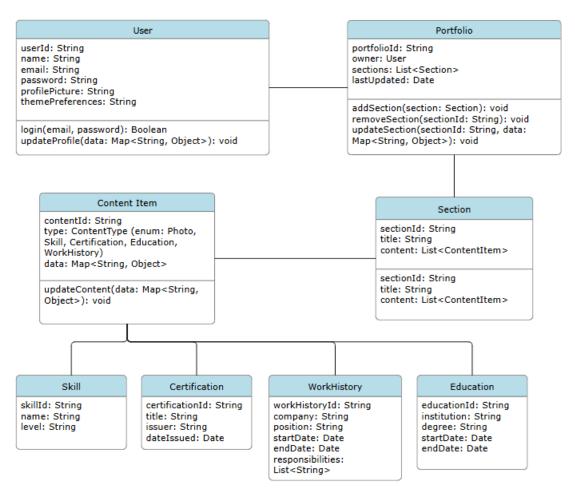


Figure 3.1 Class Diagram

### 3.4 FLOWCHART

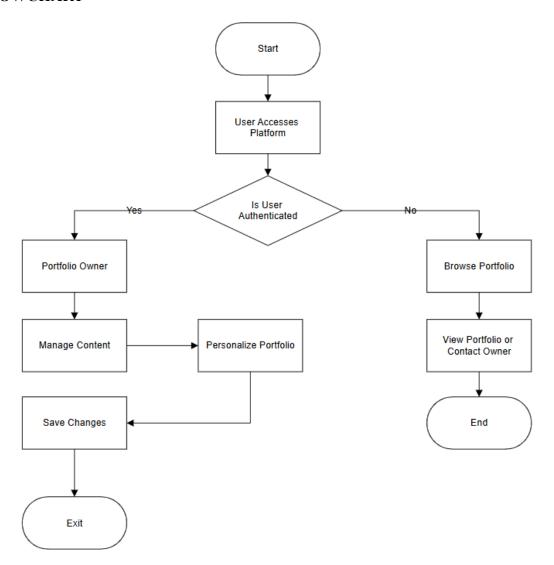


Figure 3.2 Flowchart Diagram

### 3.5 PROCESS CYCLE

- 1. User Registration/Login: The user registers or logs into the system.
- 2. Profile Creation: Users input personal details, skills, education, and work experience.
- 3. Resume Generation: ATS-friendly resumes are generated based on the input.
- 4. Profile Sharing: Public URLs are created for easy sharing.
- 5. Feedback and Updates: Users receive feedback from collaborators and update their profiles.

# 3.6 ACTIVITY DIAGRAM

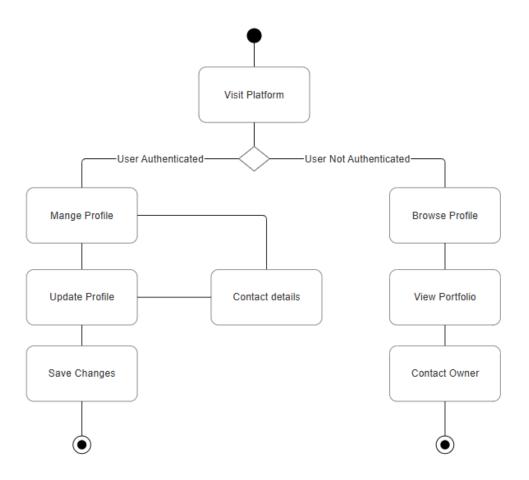


Figure 3.3 Activity Diagram

### **MODULES**

### 4.1 USER AUTHENTICATION MODULE

This module handles Login and Sign-Up functionalities for users. It ensures secure access to the platform through authentication mechanisms.

### **Features:**

### 1. User Registration:

New users can create an account by providing their email, username, and password.

Email verification is implemented to prevent unauthorized access.

# 2. Login:

Existing users can log in using their registered credentials.

Multi-factor authentication can be added for enhanced security.

### 3. Password Recovery:

Provides an option for users to reset their password through email in case of forgotten credentials.

### 4. Session Management:

Ensures active sessions are tracked and logged out automatically after inactivity.

### 5. Benefits:

Protects user data through encryption and secure protocols.

Simplifies account management with a user-friendly interface.

### **4.2 HOME PAGE MODULE**

The Home Page serves as the central hub for users, providing a comprehensive overview of their portfolio.

#### **Features:**

### 1. Profile Overview:

Displays personal details such as name, contact information, and profile picture.

### 2. Dynamic Sections:

Users can edit, update, and organize the following sections:

**Experience**: Work history with descriptions of roles and responsibilities.

**Education**: Academic background, degrees, and certifications.

Projects: Showcase of completed and ongoing projects.

**Skills**: Technical and soft skills with proficiency levels.

Languages Known: List of languages with proficiency levels.

**Certificates:** Uploaded certifications and achievements.

Benefits: Keeps all portfolio details centralized and easily accessible.

Allows real-time updates to maintain accuracy and relevance.

#### 4.3 PUBLIC PROFILE MODULE

#### Features:

### 1. Customizable URL:

Users can generate a unique and professional public link for their profile.

# 2. Privacy Settings:

Controls to manage which sections of the profile are visible to the public.

### 3. Responsive Design:

Ensures the public profile is viewable on various devices, including desktops, tablets, and smartphones.

### **Benefits:**

Enhances professional visibility and networking opportunities.

Simplifies the process of sharing resumes and portfolios with recruiters.

### 4.4 ATS-FRIENDLY RESUME GENERATOR MODULE

This module focuses on creating professional resumes that comply with Applicant Tracking Systems (ATS).

### **Features:**

### 1. Pre-designed Templates:

Offers multiple ATS-friendly templates tailored for different industries.

### 2. One-Click Export:

Generates resumes in PDF format, ready for applications.

### 3. Customization Options:

Users can rearrange sections and adjust formatting to fit specific job requirements.

#### **Benefits:**

Increases the chances of passing ATS scans during job applications.

Saves time and effort in creating professional resumes.

### 4.5 EDIT AND UPDATE MODULE

This module allows users to edit and update their profile information dynamically.

#### **Features:**

# 1. Inline Editing:

Users can edit information directly within the profile sections without navigating to separate pages.

### 2. Validation Checks:

Ensures that all entries are formatted correctly and meet predefined criteria.

#### 3. Version Control:

Tracks changes and provides an option to revert to previous versions of the profile.

#### **Benefits:**

Encourages continuous improvement and keeps profiles relevant.

Reduces the effort needed for major updates or corrections.

### **4.6 ADMINISTRATION MODULE**

This module is designed for system administrators to manage users and maintain the platform.

#### **Features:**

### 1. User Management:

View, modify, or deactivate user accounts as needed.

### 2. Content Moderation:

Monitor and approve public profiles to maintain platform quality.

### 3. Analytics and Reporting:

Provides insights into user activity, popular templates, and public profile traffic.

### **Benefits:**

Ensures the smooth operation of the platform.

Helps administrators make data-driven decisions for future updates.

# 4.7 FEEDBACK AND COLLABORATION MODULE

This module encourages user interaction and feedback, fostering collaboration and improvement.

### **Features:**

### 1. Feedback Forms:

Allows users to provide feedback on templates, features, and overall user experience.

### 2. Collaboration Tools:

Facilitates input from mentors, peers, and recruiters to improve profiles.

# 3. Community Contributions:

Open-source nature allows developers to suggest and implement new features.

### **Benefits:**

Enhances the platform's functionality based on real user input.

Creates a community-driven approach to portfolio management.

### SYSTEM SPECIFICATIONS

# 5.1 Hardware Requirements

# 5.1.1 Desktop/Laptop:

**Processor:** A dual-core CPU such as Intel Core i3 or an equivalent processor. This ensures the platform operates smoothly and efficiently for both developers and users.

**RAM:** A minimum of 4 GB is recommended to handle the Django-based web application, including multi-tasking for database queries, file uploads, and real-time interactions.

**Storage**: At least 50 GB of free disk space is required to store application files, user data, backups, and logs.

**Display:** The platform is designed to be visually optimized for displays with a resolution of 1280x800 pixels or higher, ensuring a seamless user interface experience.

### **5.1.2 Mobile Devices:**

**RAM:** Devices with a minimum of 2 GB RAM can easily access the application through web browsers, ensuring compatibility across low- to high-end devices.

**Operating System (OS):** The system supports the latest versions of iOS and Android, providing broad compatibility for users across different ecosystems.

**Display:** A 720p resolution ensures clear visualization of profiles, templates, and other graphical elements.

# **5.2 Software Requirements**

The system is browser-based, making it accessible across multiple platforms without needing additional installations. Supported browsers include:

Google Chrome: For its speed and compatibility with modern web technologies.

**Mozilla Firefox:** For its robust performance and enhanced privacy features.

**Microsoft Edge:** Ensures compatibility with Windows devices and integrates seamlessly with other Microsoft services.

Safari (Mac OS): Optimized for Mac OS users, ensuring fluid interactions.

#### **5.2.1 Internet Connection:**

A stable internet connection is mandatory for accessing, updating, and sharing portfolios. Features like real-time data synchronization and public access require uninterrupted connectivity.

### **5.2.2 Development Tools:**

**Code Editor:** Tools like Visual Studio Code, Sublime Text, or PyCharm are ideal for customizing the system's Django-Python codebase. They provide syntax highlighting, debugging features, and Git integration to streamline development.

**Django Framework:** The platform relies on Django's robust features for rapid development, scalability, and security.

**Database:** The system can integrate with databases like SQLite (for local testing) and PostgreSQL or MySQL (for deployment).

# **5.3 Additional Requirements**

#### **5.3.1 Backend Environment:**

Python 3.8 or higher is required to run Django and associated libraries efficiently.

Virtual environment tools like 'venv' or 'virtualenv' are used to manage dependencies and isolate the development environment.

### **5.3.2 Frontend Technologies:**

HTML5 and CSS3 for responsive design and smooth user interfaces.

JavaScript frameworks (e.g., jQuery or React) to enhance interactivity on profile pages.

### **5.3.3 Deployment Environment:**

A cloud hosting service like AWS, Heroku, or DigitalOcean for deploying the web application, ensuring high availability and scalability.

### **5.3.4 Security Measures:**

SSL certificates to encrypt data between the user and server.

Authentication modules provided by Django for secure logins and data access.

# **5.4 Benefits of the System Specifications**

- 1. Cross-Platform Accessibility: With the web-based approach, users can access their portfolios from any device, regardless of the operating system, as long as they meet the hardware and software requirements.
- **2. Cost-Effective:** By relying on open-source technologies like Django, Python, and SQLite, the system minimizes costs while maximizing performance and reliability.
- **3. Scalability:** The use of cloud hosting services and Django's modular architecture allows the platform to handle an increasing number of users without compromising performance.
- **4.** User-Friendly Interface: The high-resolution display and responsive design ensure that the application provides an intuitive experience for both creators and viewers.

### **METHODOLOGY**

# **6.1 Conceptual Framework**

The conceptual framework forms the backbone of the Public Portfolio Website, focusing on the alignment of user needs, system goals, and technical capabilities.

# **Purpose of the Platform**

- To provide a centralized space where individuals can showcase their skills, achievements, and work experience.
- To serve as a professional networking tool, enabling users to share their profiles easily with potential employers, clients, or collaborators.
- To empower individuals with limited technical expertise to create professional portfolios effortlessly.

### Scope of the Platform

- **1. Personal Portfolios:** Targeted at students, freelancers, and professionals looking to establish a digital presence.
- **2. Professional Growth:** Aids in career development by offering features like resume generation and analytics.
- **3. Global Accessibility**: Designed for a diverse user base, accommodating multiple languages and regional preferences.

### **Core Features Explained**

- 1. Customizable Profiles: Users can create profiles tailored to their personal or professional needs.
- **2. Public Profile Sharing**: Unique URLs allow users to showcase their profiles on social media, emails, and job platforms.
- **3. Interactive Dashboard:** Provides insights into profile performance, such as visitor statistics and engagement levels.

# **6.2 Technology Stack**

The technology stack is a carefully chosen blend of modern tools and frameworks that ensure performance, scalability, and user satisfaction.

# **Frontend Development**

**React.js:** Enables the creation of dynamic, component-based interfaces. Offers fast rendering and real-time updates.

**CSS Frameworks:** Tailwind CSS allows rapid styling, and Bootstrap ensures responsiveness across devices.

### **Backend Development**

**Django:** Provides a robust framework for implementing business logic. Handles user authentication, form validation, and data processing.

### **Database and Storage**

**SQLite:** A reliable, scalable database for storing user data.

# **Hosting and Deployment**

AWS: Provides scalability and reliability with services like EC2 and S3.

**CI/CD Pipelines:** Tools like GitHub Actions automate testing and deployment, ensuring seamless updates.

### 6.3 Data Flow and Architecture

### **User Interaction Layer**

**Data Input:** Users fill out forms for personal details, education, work experience, and portfolio projects. Real-time validation ensures error-free data submission.

**Dynamic Profile Rendering**: Profiles are generated dynamically, allowing for personalized layouts and styles.

### **Backend Processing**

**Data Handling:** The backend validates and processes data before storing it securely in the database. Role-based access control ensures only authorized users can make changes.

**Resume Generation:** Uses templates to create professional resumes in real-time.

**Public Sharing and Privacy Controls** 

Unique URL Generation: Users receive a sharable link to their public profile.

**Privacy Management:** Profiles can be customized to control what information is visible to the public.

### 6.4 User Interface and Experience Design

The design principles prioritize simplicity, functionality, and inclusivity to create a superior user experience.

# **Design Principles**

**Simplicity:** Minimalist design to avoid overwhelming users. Clear navigation paths and logical organization of content.

**Consistency:** Uniform styles for buttons, fonts, and colors ensure a cohesive look.

**Inclusivity:** Features like screen readers, high-contrast themes, and keyboard navigation cater to all users.

### **Innovative Features**

**Real-Time Feedback:** Users receive instant notifications for incomplete fields or successful updates.

**Profile Customization:** Users can adjust colors, fonts, and layouts to reflect their personality.

# **Responsive Design**

**Mobile Optimization:** Ensures the platform is accessible on all devices, from desktops tosmartphones.

Adaptive Layouts: Media queries and flexible grids guarantee a seamless experience on different screen sizes.

# **6.5 Security and Privacy Measures**

### **Authentication and Access Control**

**Secure Login:** Supports multi-factor authentication (MFA) for added security.

**Role-Based Access Control (RBAC):** Admins manage data, while regular users control their profiles.

# **Data Encryption and Storage**

**Encryption:** Data is encrypted both in transit (using SSL/TLS) and at rest (using AES-256).

**Storage Compliance:** Adheres to GDPR and CCPA for global data privacy standards.

# **Regular Audits and Monitoring**

**Security Audits**: Regular testing to identify and mitigate vulnerabilities.

**Activity Logs:** Tracks changes and access for accountability.

# **6.6 Benefits and Unique Features**

The platform offers unparalleled advantages to its users.

### **Professional Growth**

**Resume Optimization**: ATS-friendly templates increase job application success rates. **Networking**: Public profiles make it easy to share professional details with potential employers.

Engagement Metrics: Users can view the number of profile visits and downloads. Insights for Improvement: Suggestions for profile enhancement based on visitor behaviour. Global Reach and Inclusivity

Accessibility Features: Tools for users with disabilities ensure inclusivity.

# **6.7 Testing and Deployment Strategy**

The system undergoes rigorous testing and a systematic deployment process to ensure reliability.

# **Testing Phases**

Unit Testing: Ensures individual components function as intended.

**Integration Testing**: Validates interaction between the frontend, backend, and database. User Acceptance Testing (UAT): Collects feedback from target users to refine the system.

# **Deployment Process**

Server Configuration: Deployed on cloud platforms with auto-scaling capabilities.

**Monitoring:** Tools like New Relic monitor performance and uptime.

### **Future Maintenance**

Feature Updates: Regularly introducing new features based on user feedback.

Bug Fixes: Prompt resolution of issues to maintain smooth operations.

### **CONCLUSION AND FUTURE ENHANCEMENTS**

#### 7.1 Conclusion

The development of the Public Portfolio Website marks a significant step toward empowering individuals with a professional online presence. The system successfully integrates essential features such as profile creation, resume generation, and public profile sharing, while prioritizing user experience and data security. Its intuitive design ensures accessibility for users of all technical backgrounds, making it a versatile tool for students, professionals, and freelancers alike. By adhering to modern web standards and leveraging robust technologies like Django and PostgreSQL, the platform delivers a seamless and efficient experience.

The Public Portfolio Website not only meets its core objectives but also demonstrates scalability and adaptability, making it suitable for future expansions. Its role in facilitating professional growth and networking underscores its value in today's competitive job market. With rigorous testing and security measures in place, the platform is poised to handle real-world demands while safeguarding user data. Overall, this project exemplifies the potential of technology in transforming traditional approaches to personal branding and career development.

# 7.2 Future Enhancements

While the Public Portfolio Website achieves its current goals, there are several avenues for future enhancements that can further elevate its impact:

- **1. AI-Driven Recommendations:** Implementing AI algorithms to provide personalized suggestions for improving user profiles based on industry trends and recruiter preferences.
- **2. Integration with Social Media Platforms:** Allowing users to link their portfolios with LinkedIn, GitHub, and other platforms to enhance their professional visibility.
- **3. Multilingual Support:** Expanding language options to cater to a global audience, making the platform accessible to non-English speakers.
- **4.** Advanced Analytics Dashboard: Offering detailed insights into profile performance, such as visitor demographics and engagement metrics.

- **5. Mobile Application Development:** Extending platform accessibility through dedicated Android and iOS applications, ensuring seamless user experience across devices.
- **6. Features:** Introducing badges and progress trackers to motivate users to complete and optimize their profiles.
- **7. Collaboration Tools:** Enabling team-based projects where users can collaborate, showcase group achievements, and share resources.

### **APPENDIX - 1**

# **SOURCE CODE**

### profile.html

```
{% extends '../base/home.html' %}
{% load static %}
{% block stylesheet %}
<link rel="stylesheet" href="{% static 'css/profile.css' %}">
{% endblock %}
{% block main %}
<!-- Profile card -->
<div class="profile-header">
  <div class="profile-cnt">
     <div class="profile">
       <div class="profile-photo-cnt">
         <img src="{{ user profile.profile picture.url }}" alt="Profile Picture"</pre>
class="profile-photo">
       </div>
       {% if edit access %}
       <div class="edit-cnt">
         <button type="button" class="edit-btn"><i class="fa-solid fa-pen"></i></button>
       </div>
       {% endif %}
     </div>
     <div class="user-identity-cnt">
       <div class="name-cnt">
```

```
<h1 class="name">{{ user profile.name }} <span class="pronouns">({{
user profile.pronouns }})</span></h1>
         {% if edit access %}
         <button type="button" class="edit-btn"><i class="fa-solid fa-pen"></i></button>
         {% endif %}
      </div>
      <h3 class="uname"><i class="fa-regular fa-id-badge"></i> {{
user profile.user.username }}</h3>
      <i class="fa-solid fa-cake-candles"></i> {{ user profile.dob }}
      <div class="location">
         <i class="fa-solid fa-location-dot"></i> {{ user profile.district }}
      </div>
      <div class="btn-cnt">
         {% if user profile.open to work %}
         <span class="open-to-work"><i class="fa-solid fa-briefcase"></i> Open to
Work</span>
         {% endif %}
         <a href="{{ user profile.resume.url }}" download="Resume.pdf"><button
type="button" class="resume"><i class="fa-solid fa-file"></i> Resume</button></a>
      </div>
    </div>
  </div>
  <div class="share-cnt">
    <button type="button" class="share-btn">Share <i class="fa-solid fa-arrow-up-from-
bracket"></i></button>
  </div>
```

```
</div>
<!-- About -->
{% if user about %}
<div class="profile-about-cnt">
  <div class="profile-about-title-cnt">
    <h1 class="profile-about-title">{{ user_about.title }}</h1>
    {% if edit access %}
    <div class="edit-cnt">
       <br/>
<br/>
button type="button" class="edit-btn"><i class="fa-solid fa-pen"></i>
/button>
    </div>
    {% endif %}
  </div>
  <div class="profle-about-me-cnt">
    {{ user about.about me }}
    </div>
</div>
{% endif %}
<!-- Experience -->
{% if user experience %}
<div class="experiences-cnt">
  <div class="experiences-title-cnt">
    <h1 class="experiences-title">Experience <i class="fa-solid fa-briefcase"></i></h1>
```

```
{% if edit access %}
    <div class="add-btn">
      <i class="fa-regular fa-square-plus"></i>
    </div>
    {% endif %}
  </div>
  <div class="experiences-list">
    <!-->
    {% for experience in user_experience %}
    <div class="experience-detail-cnt">
      <div class="experience-detail">
         <div class="job-role-cnt">
           <h2 class="job-role">{{ experience.title }} | {{ experience.company }}</h2>
           {% if edit_access %}
           <div class="edit-cnt">
             <button type="button" class="edit-btn"><i class="fa-solid fa-
pen"></i></button>
           </div>
           {% endif %}
         </div>
         <div class="duration">{{ experience.start_date }} - {{ experience.end_date
}}</div>
         <div class="experience-description-cnt">
           {{ experience.description }}
         </div>
```

```
</div>
       {% if edit_access %}
       <form class="del form" action="{% url 'del user experienc' experience.id %}"</pre>
method="post">
          {% csrf_token %}
         <button type="submit" class="delete-btn">
            <i class="fa-regular fa-trash-can"></i>
         </button>
       </form>
       {% endif %}
     </div>
     {% endfor %}
     <!-->
  </div>
</div>
{% endif %}
<!-- Education -->
{% if user_educations %}
<div class="education-cnt">
  <div class="education-title-cnt">
    <h1 class="education-title">Education <i class="fa-solid fa-graduation-cap"></i></h1>
     {% if edit access %}
     <div class="add-btn">
       <i class="fa-regular fa-square-plus"></i>
     </div>
```

```
{% endif %}
  </div>
  <div class="education-list">
    <!-->
    {% for education in user_educations %}
    <div class="education-detail-cnt">
      <div class="education-detail">
        <div class="education-information-cnt">
           <div class="institution-name-cnt">
             <h2 class="institution-name">{{ education.school_name }}</h2>
             {% if edit access %}
             <div class="edit-cnt">
               <button type="button" class="edit-btn"><i class="fa-solid fa-
pen"></i></button>
             </div>
             {% endif %}
           </div>
           <h4 class="degree">{{ education.degree }} <span class="grade">Grade : {{
education.grade }}</span></h4>
          {{ education.course }}
          {{ education.start_date }} - {{ education.end_date }}
        </div>
      </div>
      {% if edit_access %}
```

```
<form class="del_form" action="{% url 'del_user_education' education.id %}"</pre>
method="post">
          {% csrf token %}
          <button type="submit" class="delete-btn">
            <i class="fa-regular fa-trash-can"></i>
          </button>
       </form>
       {% endif %}
     </div>
     {% endfor %}
  </div>
</div>
{% endif %}
<!-- Certificates -->
{% if user_certificates %}
<div class="certifications-cnt">
  <div class="certification-title-cnt">
    <h1 class="certification-title">Certifications <i class="fa-solid fa-award"></i></h1>
     {% if edit access %}
     <div class="add-btn">
       <i class="fa-regular fa-square-plus"></i>
     </div>
     {% endif %}
  </div>
  <div class="certificate-list">
```

```
<!-->
     {% for certificate in user certificates %}
    <div class="certificate">
       <div class="certificate-provier-logo-cnt">
         <img src="{% static 'images/icons/certificateicon.png' %}" alt=""</pre>
class="certificate-provier-logo" width="100px">
       </div>
       <div class="certificate-details-cnt">
         <div class="certificate-details">
            <div class="certificate-name-cnt">
              <h2 class="certificate-name">{{ certificate.title }}</h2>
              {% if edit_access %}
              <div class="edit-cnt">
                <button type="button" class="edit-btn"><i class="fa-solid fa-
pen"></i></button>
              </div>
              {% endif %}
            </div>
            <div class="issued-details">
              <h4 class="issued-by">Issued By: {{ certificate.issued by }}</h4>
              Issued On: {{ certificate.issued_on }}
            </div>
            <a href="{{ certificate.certificate url }}"><button type="button" class="view-
certificate-btn"><i class="fa-solid fa-arrow-up-right-from-square"></i> View
Certificate</button></a>
```

```
</div>
          {% if edit_access %}
         <form class="del_form" action="{% url 'del_user_certificate' certificate.id %}"</pre>
method="post">
            {% csrf_token %}
            <button type="submit" class="delete-btn">
              <i class="fa-regular fa-trash-can"></i>
            </button>
         </form>
          {% endif %}
       </div>
     </div>
     {% endfor %}
     <!-->
  </div>
</div>
{% endif %}
<!-- Projects -->
{% if user_projects %}
<div class="project-cnt">
  <div class="project-title-cnt">
     <h1 class="project-title">Projects <i class="fa-solid fa-gear"></i></h1>
     {% if edit_access %}
     <div class="add-btn">
       <i class="fa-regular fa-square-plus"></i>
```

```
</div>
     {% endif %}
  </div>
  <div class="project-list">
     {% for project in user projects %}
    <div class="project">
       <div class="project-image-cnt">
         <img src="{% static 'images/icons/projecticon.png' %}" alt="" class="project-</pre>
provier-logo" width="100px">
       </div>
       <div class="project-details-cnt">
         <div class="project-details">
            <div class="project-name-cnt">
              <h2 class="project-name">{{ project.title }}</h2>
              {% if edit_access %}
              <div class="edit-cnt">
                <button type="button" class="edit-btn"><i class="fa-solid fa-
pen"></i>>/button>
              </div>
              {% endif %}
            </div>
            <div class="created-details">
              {{ project.start date }} - {{ project.end date }}
            </div>
            <div class="certificate-description-cnt">
```

```
{{ project.description }}
           </div>
           <a href="{{ project.project url }}"><button type="button" class="view-project-
btn"><i class="fa-solid fa-arrow-up-right-from-square"></i> View Project</button></a>
         </div>
         {% if edit access %}
         <form class="del form" action="{% url 'del user project' project.id %}"</pre>
method="post">
           {% csrf token %}
           <button type="submit" class="delete-btn">
             <i class="fa-regular fa-trash-can"></i>
           </button>
         </form>
         {% endif %}
       </div>
    </div>
    {% endfor %}
  </div>
</div>
{% endif %}
<!-- Skills -->
{% if user skills %}
<div class="profile-skills-cnt">
  <div class="profile-skills-title-cnt">
```

```
<h1 class="profile-skills-title">Skills <i class="fa-solid fa-person-
snowboarding"></i></h1>
     {% if edit access %}
    <div class="edit-cnt">
       <br/>
<br/>button type="button" class="edit-btn"><i class="fa-solid fa-pen"></i></button>
    </div>
     {% endif %}
  </div>
  <div class="profle-skills-list">
     {% for skill in user_skills %}
    <span class="skills {{ skill.proficiency.lower }}">{{ skill.skill }}</span>
     {% endfor %}
  </div>
  <div class="profeciancy-level-cnt">
    <div class="profeciancy-level">
       <div class="circle beginner-level"></div>
       Beginner
    </div>
    <div class="profeciancy-level">
       <div class="circle intermediate-level"></div>
       Intermediate
    </div>
    <div class="profeciancy-level">
       <div class="circle expert-level"></div>
       Expert
```

```
</div>
  </div>
</div>
{% endif %}
<!-- Languages Known -->
{% if user_languages %}
<div class="languages-known-cnt">
  <div class="languages-known-title-cnt">
    <h1 class="languages-known-title">Languages Known <i class="fa-solid fa-earth-
asia"></i></h1>
    {% if edit_access %}
    <div class="edit-cnt">
       <br/>
<br/>
button type="button" class="edit-btn"><i class="fa-solid fa-pen"></i>
/button>
    </div>
    {% endif %}
  </div>
  <div class="languages-known-list">
     {% for language in user_languages %}
    <span class="languages {{ language.proficiency.lower }}">{{ language.language
}}</span>
     {% endfor %}
  </div>
  <div class="profeciancy-level-cnt">
    <div class="profeciancy-level">
       <div class="circle beginner-level"></div>
```

# views.py

from django.shortcuts import render, redirect, get\_object\_or\_404
from django.contrib.auth import authenticate, login, logout
from django.contrib.auth.decorators import login\_required
from django.contrib.auth.models import User
from django.http.response import HttpResponse
from django.urls import reverse
from django.contrib import messages
from .models import \*

```
def user login(request):
  if (request.method == "POST"):
    uname or email = request.POST.get("uname or email")
    password = request.POST.get("password")
    error message = ""
    if ("@" in uname or email):
       user = authenticate(email = uname or email, password = password)
    else:
       user = authenticate(username = uname or email, password = password)
    # the user variable contains the user name of the user if avilable else it contains None
    if user is not None:
       # this login() function is from the contrib.auth whick logins to the user
       login(request, user)
       return redirect(reverse("user profile", kwargs={"uname" : user})) # keyword
argument is used to send data requeired for the url
    else:
       error message = "Invalid User name or Password"
       return render(request, "auth/login.html", context={"error" : error message})
  return render(request, "auth/login.html")
@login required(login url='user login')
def user logout(request):
  logout(request)
  return redirect(reverse("user login"))
def user signin(request):
  return render(request, "auth/signin.html")
```

```
def home(request):
  if request.user.is authenticated:
    logged user = get object or 404(UserProfile, user=request.user)
  else:
    logged user = None
  context = {
    'logged user': logged user
  }
  if(request.method == "POST"):
    search = request.POST.get("search")
    user = User.objects.filter(username = search).first()
    if (user is not None):
       return redirect(reverse("user profile", kwargs={"uname" : search}))
  return render(request, "base/home.html", context)
def user profile(request, uname):
  user = get object or 404(User, username=uname)
  user_profile = get_object_or_404(UserProfile, user=user)
  user about = user profile.about me
  user experience = user profile.experiences.all()
  user_educations = user_profile.educations.all()
  user certificates = user profile.certificates.all()
  user projects = user profile.projects.all()
  user skills = user profile.skills.all()
  user languages = user profile.languages.all()
```

```
if request.user.is authenticated:
  logged user = get object or 404(UserProfile, user=request.user)
else:
  logged user = None
edit access = uname == request.user.username
context = {
  'edit access': edit access,
  'uname': uname,
  'user_profile': user_profile,
  'user about': user about,
  'user experience': user experience,
  'user educations': user educations,
  'user_certificates': user_certificates,
  'user projects': user projects,
  'user skills': user skills,
  'user languages': user languages,
'logged user': logged user,
  }
if request.method == "POST":
  search = request.POST.get("search")
  searched user = User.objects.filter(username=search).first()
  if searched user:
     return redirect(reverse("user profile", kwargs={"uname": search}))
  else:
```

```
return HttpResponse("Profile Not Found!")
  return render(request, "user/profile.html", context)
def personal details form(request):
  return render(request, "forms/personal details form.html")
@login required(login url='user login')
def del user experienc(request,id):
  if request.method == "POST":
    experience = get object or 404(Experience, id = id)
    experience.delete()
  return redirect(reverse('user_profile', kwargs={"uname" : request.user.username}))
@login required(login url='user login')
def del user education(request,id):
  if request.method == "POST":
    education = get object or 404(Education, id = id)
    education.delete()
  return redirect(reverse('user profile', kwargs={"uname" : request.user.username}))
@login required(login url='user login')
def del user certificate(request,id):
  if request.method == "POST":
    certificate = get object or 404(Certificate, id = id)
    certificate.delete()
  return redirect(reverse('user profile', kwargs={"uname" : request.user.username}))
@login required(login url='user login')
def del user project(request,id):
```

```
if request.method == "POST":
     project = get object or 404(Project, id = id)
     project.delete()
  return redirect(reverse('user_profile', kwargs={"uname" : request.user.username}))
# Create your views here.
urls.py
from django.urls import path
from . import views
urlpatterns = [
  path(", views.home, name="home"),
  path('in/<str:uname>/', views.user profile, name="user profile"),
  path('login/', views.user login, name="user login"),
  path('logout/', views.user logout, name="user logout"),
  path('signin/', views.user signin, name="user signin"),
  path('personal details form/', views.personal details form,
name="personal details form"),
  path('del user experienc/<int:id>', views.del user experienc,
name="del user experienc"),
  path('del user education/<int:id>', views.del user education,
name="del user education"),
  path('del user certificate/<int:id>', views.del user certificate,
name="del user certificate"),
  path('del user project/<int:id>', views.del user project, name="del user project"),
]
```

# **APPENDIX - 2**

# **SCREENSHOTS**

# **SAMPLE OUTPUT**

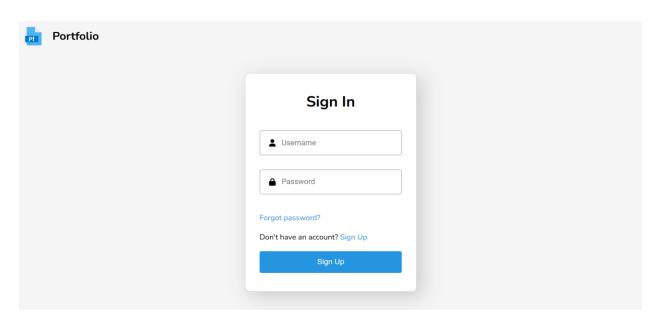


Figure A.2.1 Sign in Page

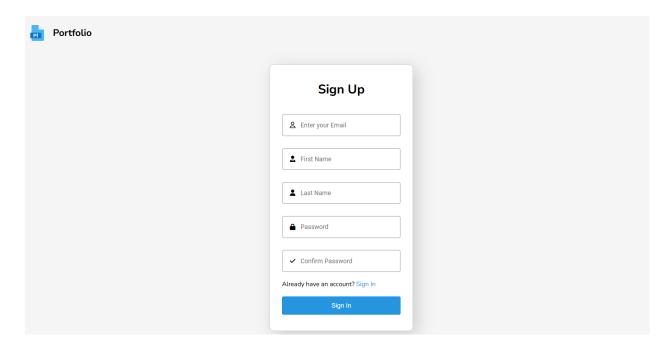


Figure A.2.2 Sign Up Page

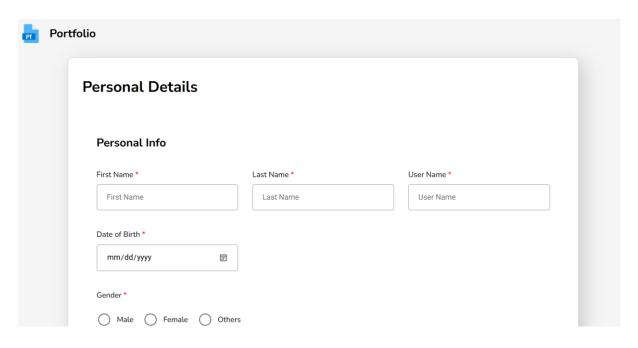


Figure A.2.3 Registration Form

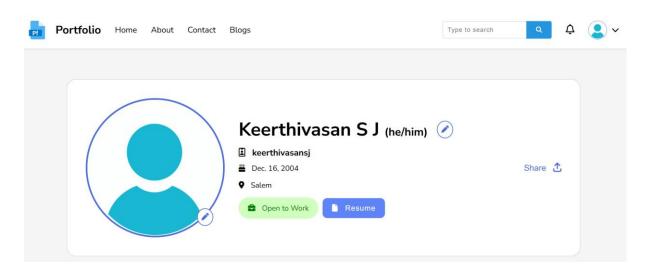


Figure A.2.4 Profile with Edit Option



Figure A.2.5 Viewing Other Users Profile

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