Resume Builder
Web Application

Version: 1.1.0

By

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Introduction

Purpose

The purpose of this document is to detail the requirements for a webbased Resume Builder tool. The tool will assist users in creating professional resumes by providing customizable templates, realtime editing, and export options. Additionally, it aims to enhance users' chances of passing initial screenings by ensuring ATS (Applicant Tracking System) compatibility.

Scope

The Resume Builder tool allows job seekers to create, edit, and save multiple versions of resumes and cover letters. Users will have access to various templates and customization options to tailor their resumes according to specific job requirements. The application will support a user dashboard for managing multiple resumes and offer a premium feature for additional template access via a payment gateway

Definitions, Acronyms, and Abbreviations

SRS Software Requirements Specification

ATS Applicant Tracking System

UI User Interface

UX User Experience

PDF Portable Document Format

Overall Description

1 Product Functions

Allows users to create a resume using various templates. Enables realtime editing and previewing of resumes.Supports multiple formats for exporting resumes.Provides ATSoptimized resume templates and content suggestions. Offers a cover letter builder with customizable templates.

2 User Classes and Characteristics

Job Seekers: Primary users who create and manage resumes and cover letters.

Administrators: Manage templates, system configurations, and monitor application usage.

Employers: May view resumes (in case of additional features enabling job listings).

3 Operating Environment

OS: Windows 10, macOS, Linux

Browser: Latest versions of Chrome, Firefox, Safari

Hardware Requirements: Minimum 4GB RAM, 100MB free disk space

4 Design and Implementation Constraints

Frontend: HTML, CSS, Tailwind for responsive design.

Backend: Python with Flask, SQLite for database management.

Web Server: Nginx or Apache for serving the application.

Deployment: Cloud hosting on Linuxbased servers.

5 Assumptions and Dependencies

Users are assumed to have basic computer literacy and familiarity with resume creation.

Application performance may depend on the speed and stability of the user's internet connection.

Specific Requirements

Functional Requirements

1. User Authentication

Users can register using email and password.

Users can log in with their credentials.

Users can reset passwords via an email recovery link.

2. Resume Builder

Users can select templates and add, edit, or delete sections.

Users can customize fonts, colors, and layout.

Content suggestions are provided for action verbs, phrases, and bullet points.

3. Preview and Export

Users can preview resumes in realtime.

Export options include PDF and Word formats.

Users can save and manage multiple resume versions.

4. User Dashboard

Displays all saved resumes for each user.

Allows users to edit, delete, or duplicate resumes.

5. Template Management

Admins can add, update, or delete resume templates.

Users can filter templates based on categories.

6. User Profile Management

Users can update their profile information.

Account settings, including password changes, are available.

7. Help and Support

Accessible help or FAQ section with user guidance.

Non-Functional Requirements

1. Performance

Application load time should be less than 2 seconds.

Realtime updates during resume preview.

2. Scalability

Support for increased users during peak times.

Optimized to handle high traffic.

3. Usability

Intuitive UI design to facilitate easy navigation.

Responsive design for multidevice compatibility.

4. Security

Data encryption for sensitive information.

Protection against common vulnerabilities (e.g., SQL injection).

5. Compatibility

Compatible with all major browsers and operating systems.

6. Accessibility

Compliance with WCAG 2.1 for accessibility.

Keyboard navigation and screen reader support.

7. Maintainability

Modular and documented codebase for easier updates.

Easy integration of new features.

8. Availability

Target uptime of 99.9% with regular backups.

DATAFLOW DIAGRAM

1 Level 0 DFD

Shows highlevel interactions among:

Users: Input personal and professional information to create resumes.

Resume Builder Website: Processes data to create resumes.

Employers (Optional): Access resumes if relevant.

Payment Gateway (Optional): Handles payments for premium features.

2 Level 1 DFD

User Registration and Login: Manages account creation and login.

Resume Creation: Facilitates user input for resume content.

Resume Management: Options to edit, delete, or view resumes.

Employer Access: Employers can browse resumes (if applicable).

Payment Gateway: Manages premium feature purchases.

3 Level 2 DFD

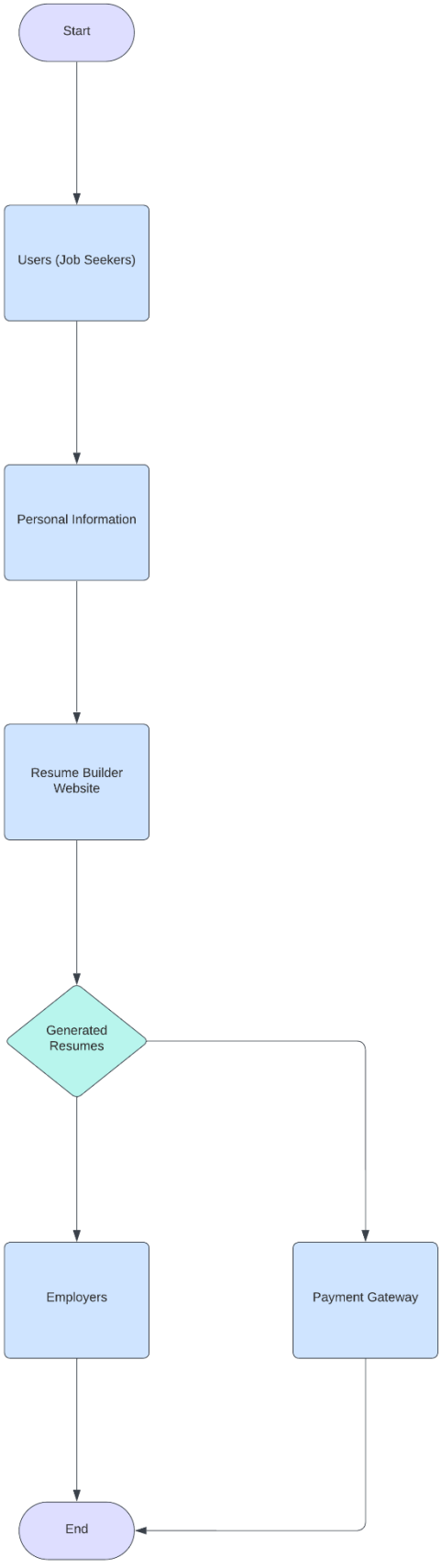
Focused on Resume Creation:

Input Personal Information: Users add name, contact, etc.

Input Work History, Education, Skills: Users enter job history, qualifications, and skill sets.

Generate Resume: The system compiles the data into a downloadable format.

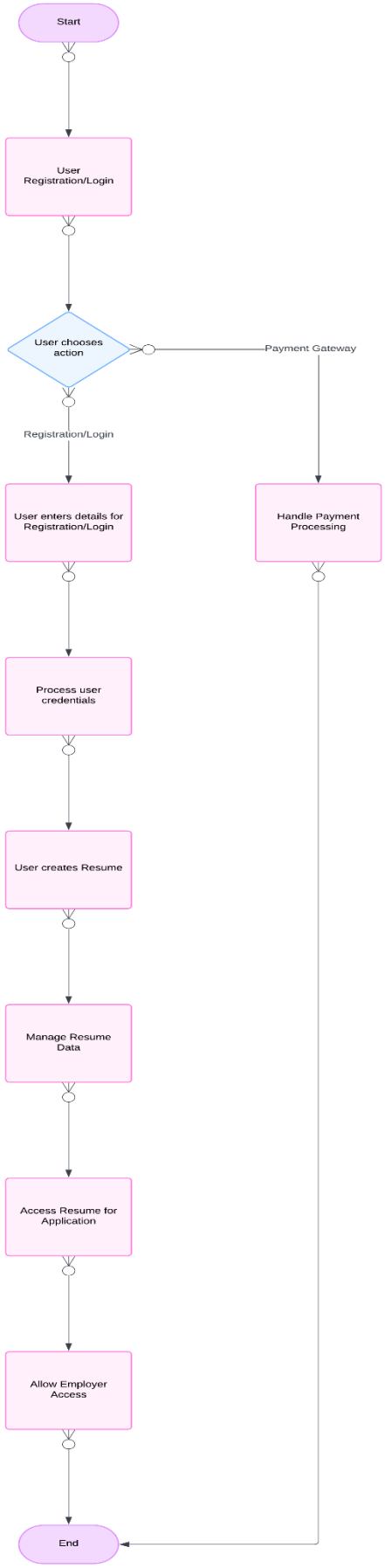
Level 0:DFD



Flow

- **Users:** Job seekers interact with the system by providing their personal information to create resumes.
- **Resume Builder Website:** This is the core system that processes the information from users and generates resumes.
- **Employers:** Employers can access resumes generated by users.
- **Payment Gateway(Optional):** If premium features are offered, users can make payments through this entity.

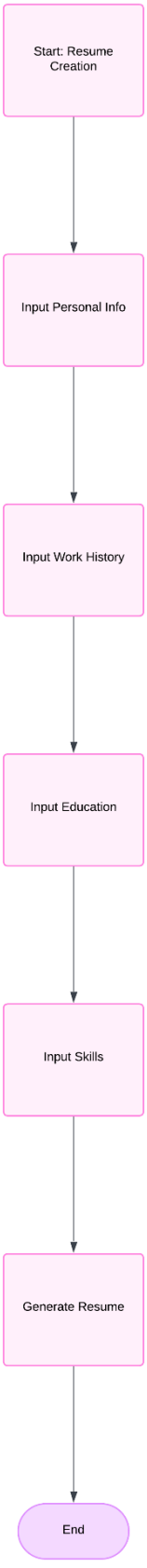
Level 1:DFD



Flow:

- **User Registration and Login:** This process handles user sign-ups and logins, ensuring that users can create an account or access their existing account.
- **Resume Creation:** After logging in, users can create resumes by inputting personal information, work history, education, and skills.
- **Resume Management:** Users can manage their resumes, which includes options to edit, delete, or view existing resumes.
- **Employer Access:** Employers can search for and access the resumes created by users, allowing them to find potential candidates.
- **Payment Gateway:** If users opt for premium features, this process manages payment transactions.

Level 2:DFD



Flow:

- **Input Personal Information:** Users enter their basic information such as name, contact details, and other personal identifiers.
- **Input Work History:** Users provide details of their past job experiences, including job titles, responsibilities, and employment dates.
- **Input Education:** Users input their educational background, including degrees, institutions, and graduation dates.
- **Input Skills:** Users list their skills relevant to their desired job positions.
- **Generate Resume:** Once all the information is collected, the system compiles the data into a professional resume format, which can then be downloaded or printed.

Technology Stack

Frontend: HTML, CSS, Tailwind for responsive styling.

Backend: Python, Flask for serverside logic.

Database: SQLite for managing user and template data.

Web Server: Nginx or Apache for hosting.

Environment Variables: Set up for sensitive configurations, like `DATABASE_URL` and `SECRET_KEY`.

Source code Directory

Resume Builder flask app/

```
│
├── app.py                  Main application file
├── database.py             Database initialization and connection logic
├── requirements.txt        Python package dependencies
│
├── static/                 Static files (CSS, JS, images, uploads)
│   ├── uploads/            Uploaded files
│   └── pdfs/               Generated PDF files
│
├── templates/              HTML templates
│   ├── index.html          Main index page
│   ├── login.html          Login page
│   ├── register.html       Registration page
│   ├── create_resume.html  Resume creation page
│   ├── view_resumes.html   Resume viewing page
│   ├── template1.html      Default template (if needed)
│   ├── creative.html       Example of a resume template
│   ├── modern.html         Example of a resume template
│   ├── classic.html        Example of a resume template
│   ├── elegant.html        Example of a resume template
│   └── sleek.html          Example of a resume template
│
├── .gitignore              Git ignore file
└── README.md               Project documentation
```

Web Software Deployment Instructions

Project Name : Resume Builder Version: 1.1.0

Last Updated : November 3, 2024

1. Environment Setup

Ensure server prerequisites (e.g., Python 3.6+, Nginx, etc.).

Clone the project repository and set up a virtual environment.

Install dependencies using `requirements.txt`.

2. Web Server Configuration

Configure Nginx or Apache to route requests to the application.

Set up proxy settings and ensure HTTPS where applicable.

3. Application Launch

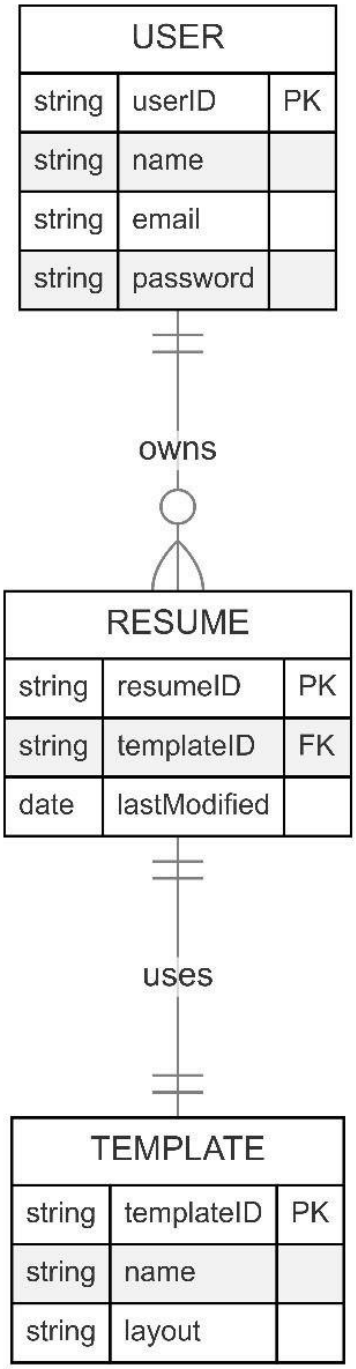
Use Gunicorn or Supervisor to manage application processes.

4. Database Setup

Apply any necessary database migrations.

7. Database Schema

Table	Fields	Description
User	user_id, email, password, name	Stores user credentials and profile information
Resume	resume_id, user_id, template, content	Stores the content and template details of resumes
Template	template_id, name, layout, svg_icon	Stores template data and SVG references


USER
string
userID
PK
string
name
string
email
string
password
owns
RESUME
string
resumeID
PK
string
templateID
FK
date
lastModified
uses
TEMPLATE
string
templateID
PK
string
name
string
layout

8. Testing and Rollback

1. Testing

Access routes to validate core functions, such as login, resume creation, and export options.

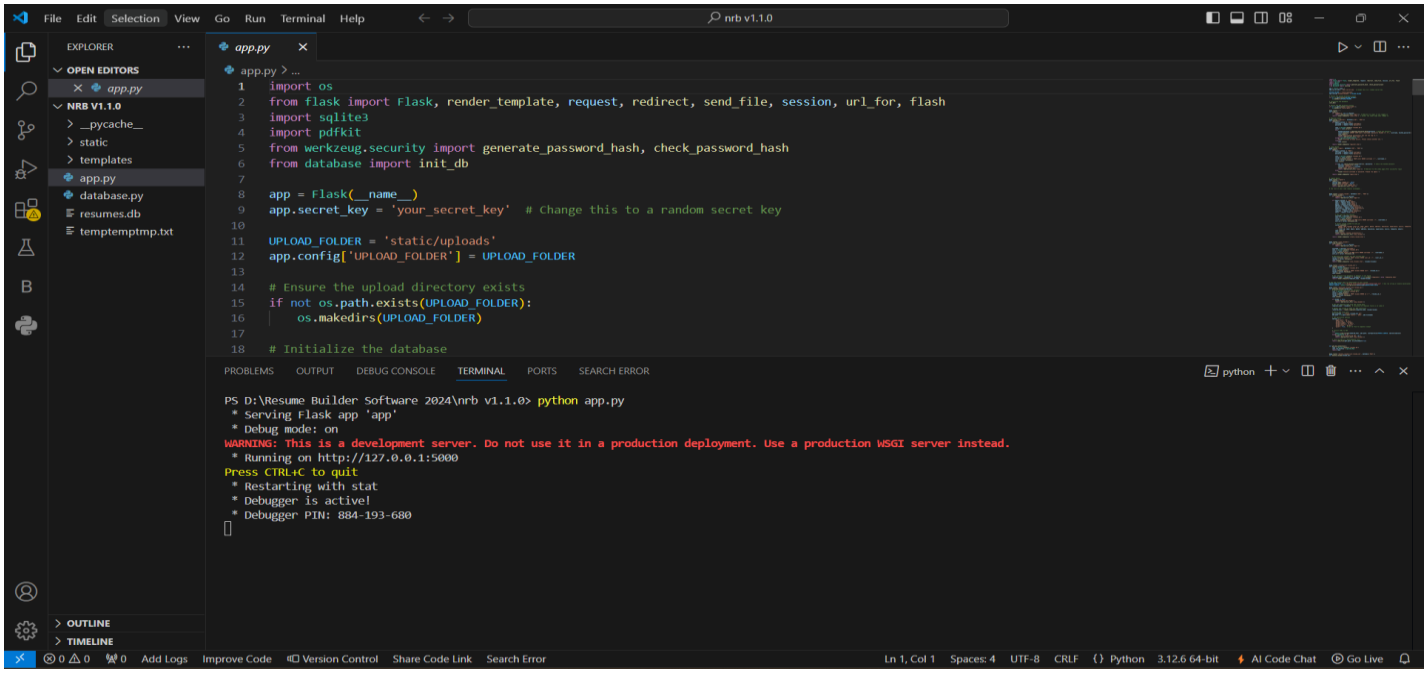
2. Troubleshooting

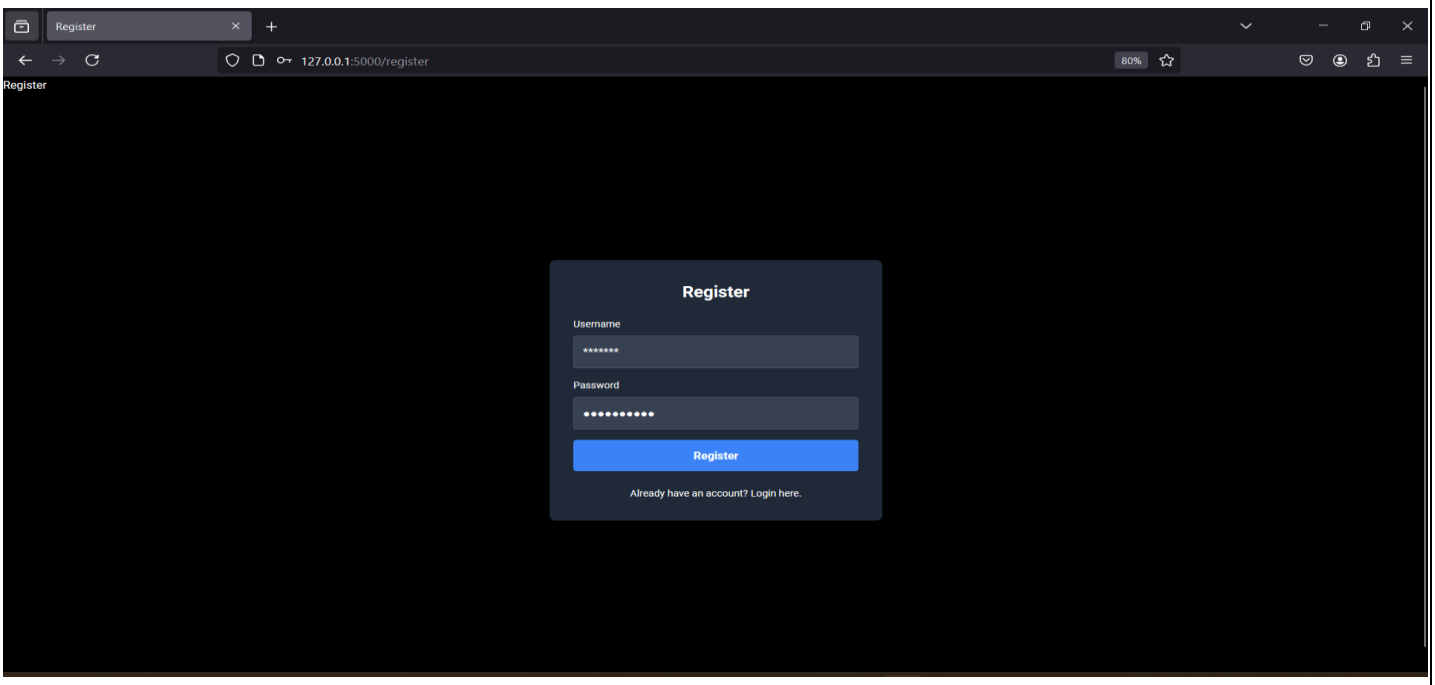
Review logs for errors using `nginx/error.log` and Supervisor logs for appspecific issues.

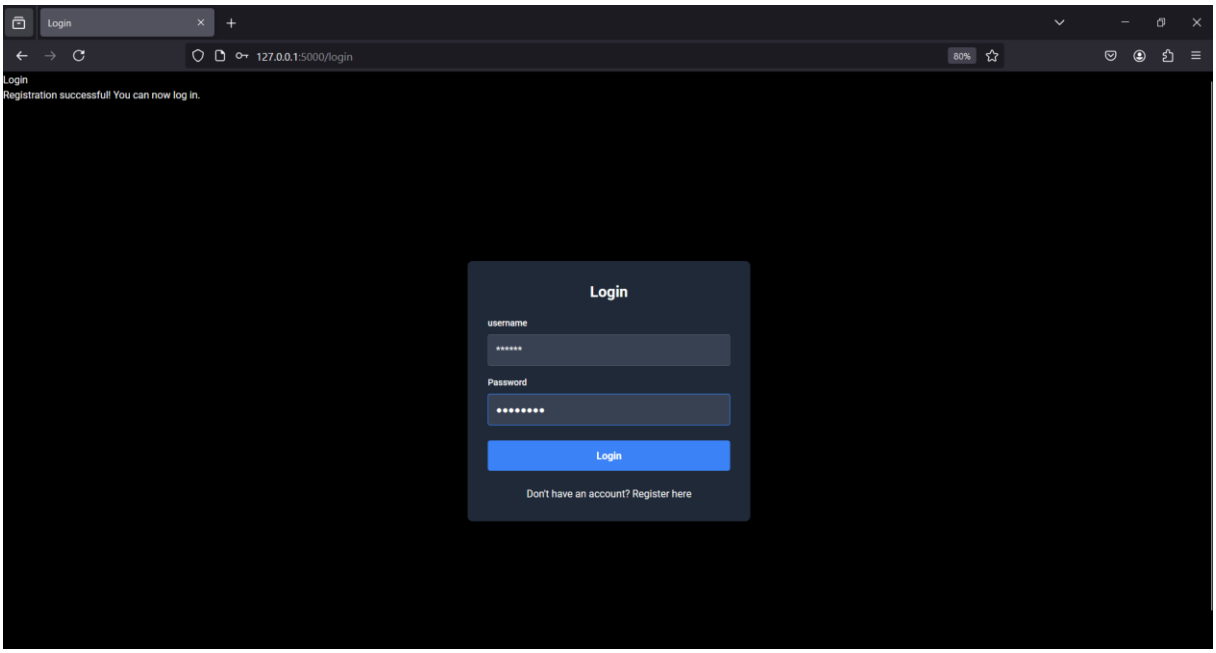
3. Rollback Procedures

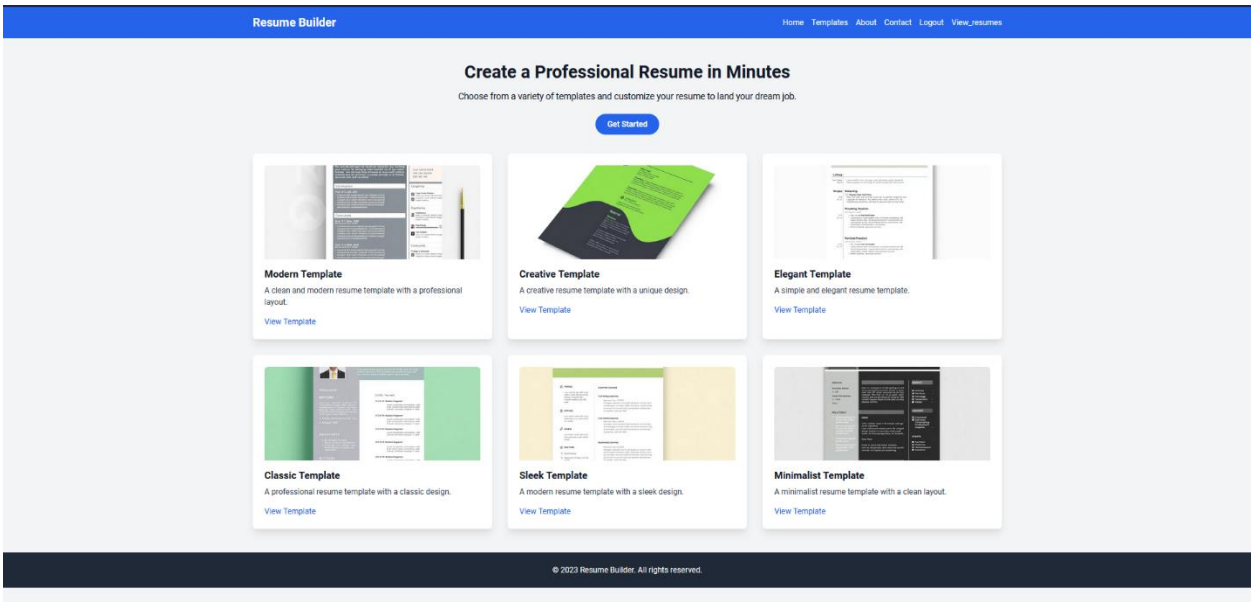
Stop current deployment, revert to the previous commit, and redeploy after testing.

Screenshots






Login
127.0.0.1:5000/login
80%
Login
Registration successful! You can now log in.
Login
username
Password
Login
Don't have an account? Register here


Resume Builder
Home Templates About Contact Logout View_resumes
Create a Professional Resume in Minutes
Choose from a variety of templates and customize your resume to land your dream job.
Get Started
Modern Template
A clean and modern resume template with a professional layout.
View Template
Creative Template
A creative resume template with a unique design.
View Template
Elegant Template
A simple and elegant resume template.
View Template
Classic Template
A professional resume template with a classic design.
View Template
Sleek Template
A modern resume template with a sleek design.
View Template
Minimalist Template
A minimalist resume template with a clean layout.
View Template
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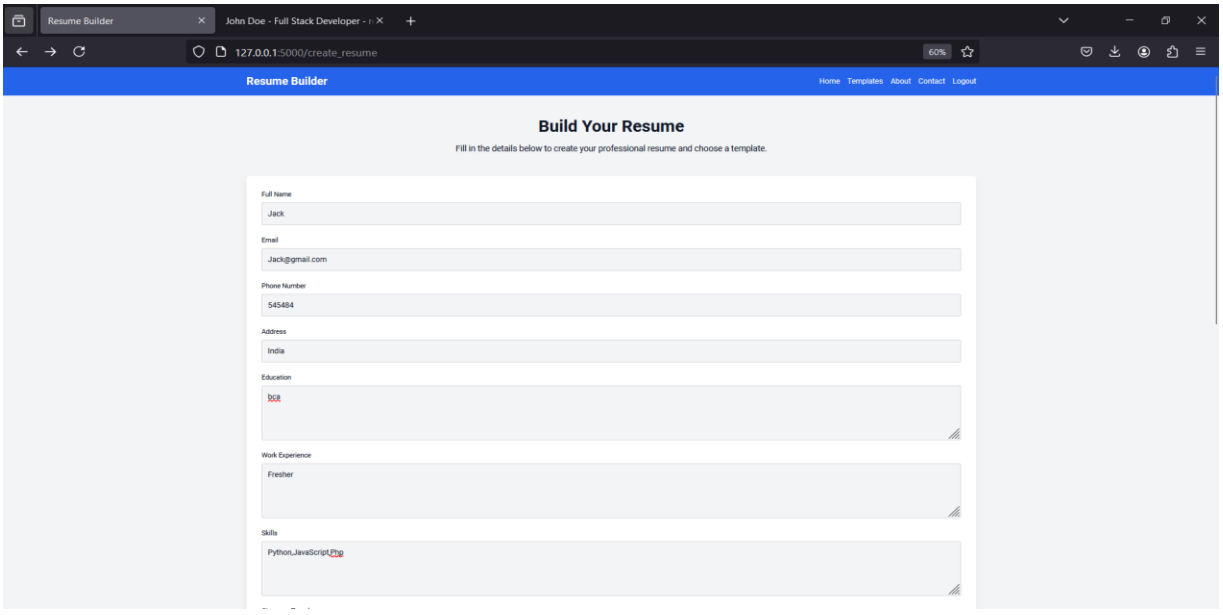
Resume Builder
John Doe - Full Stack Developer -
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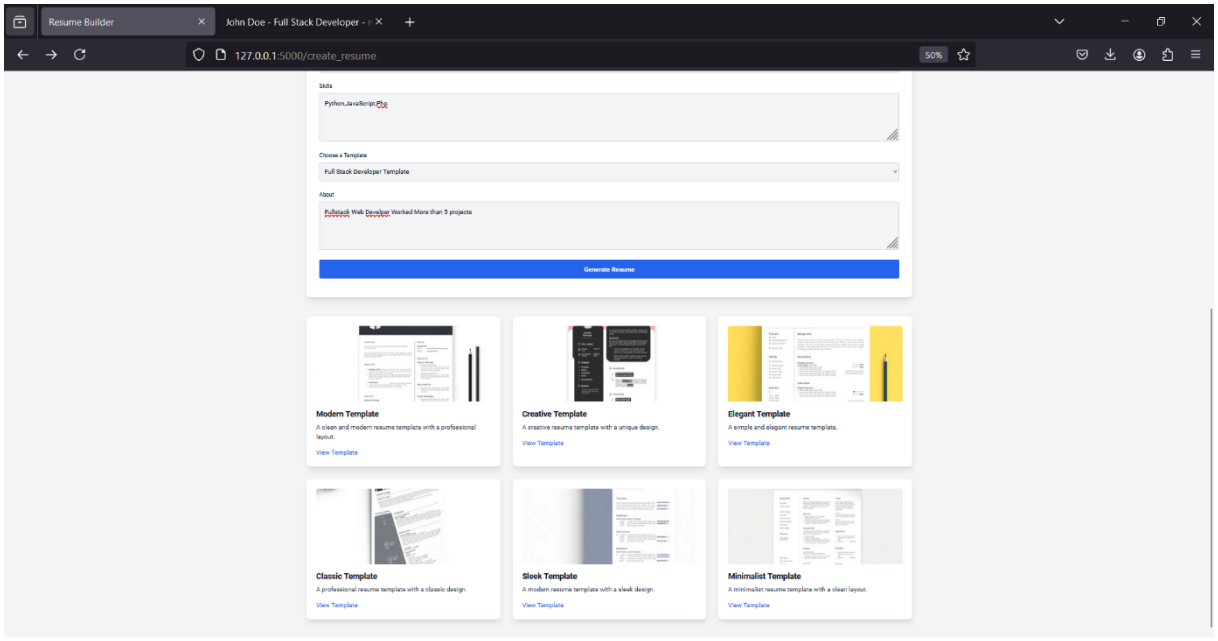
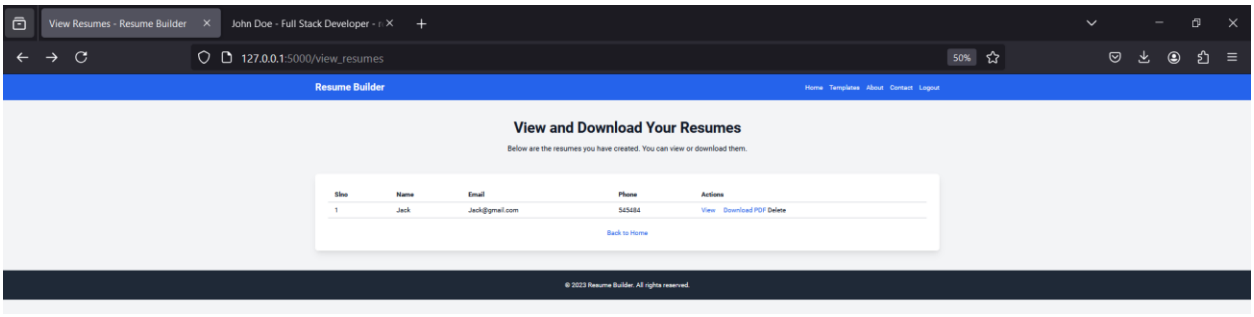
Resume Builder
Home Templates About Contact Logout
Build Your Resume
Fill in the details below to create your professional resume and choose a template.
Full Name
Jack
Email
Jack@gmail.com
Phone Number
545484
Address
India
Education
DCB
Work Experience
Fresher
Skills
Python,JavaScript,Php


Resume Builder
John Doe - Full Stack Developer
127.0.0.1:5000/create_resume
50%
Skills
Python,JavaScript,Php
Choose a Template
Full Stack Developer Template
About
Fullstack Web Developer Worked More than 5 projects
Generate Resume
Modern Template
A clean and modern resume template with a professional layout.
View Template
Creative Template
A creative resume template with a unique design.
View Template
Elegant Template
A simple and elegant resume template.
View Template
Classic Template
A professional resume template with a classic design.
View Template
Sleek Template
A modern resume template with a sleek design.
View Template
Minimalist Template
A minimalist resume template with a clean layout.
View Template


View Resumes - Resume Builder
John Doe - Full Stack Developer
127.0.0.1:5000/view_resumes
50%
Resume Builder
Home Templates About Contact Logout
View and Download Your Resumes
Below are the resumes you have created. You can view or download them.
Slno
Name
Email
Phone
Actions
1
Jack
Jack@gmail.com
545484
View Download PDF Delete
Back to Home
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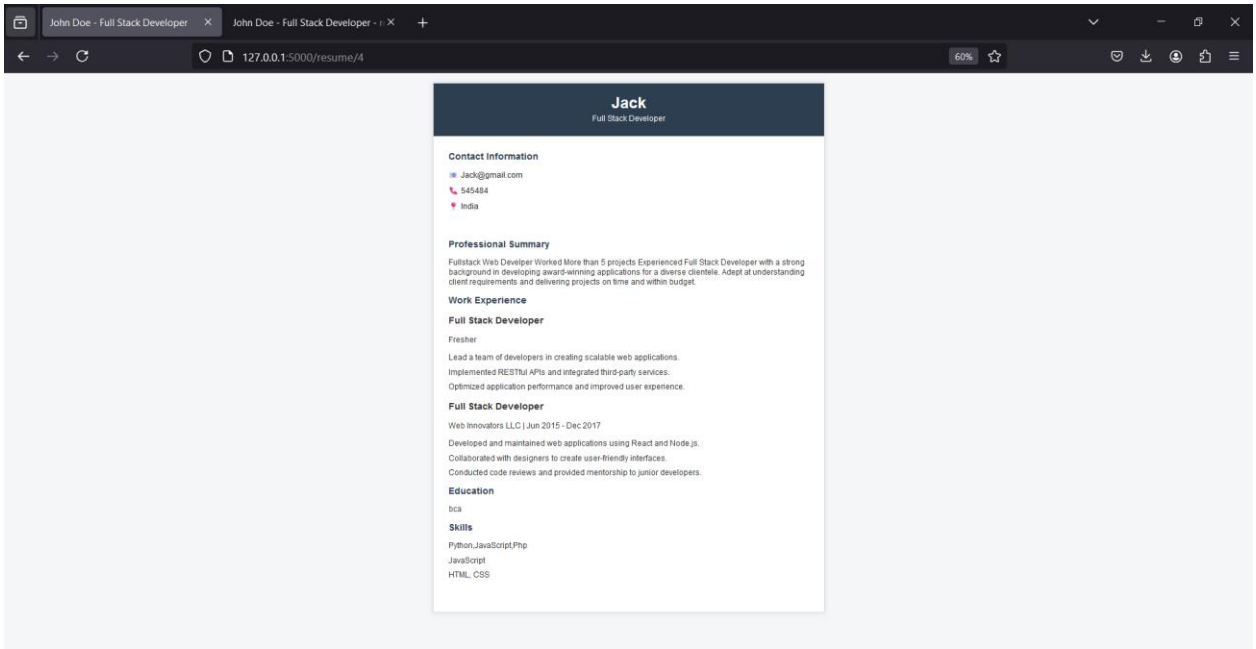
John Doe - Full Stack Developer
John Doe - Full Stack Developer
127.0.0.1:5000/resume/4
60%
Jack
Full Stack Developer
Contact Information
Jack@gmail.com
545484
India
Professional Summary
Fullstack Web Developer Worked More than 5 projects Experienced Full Stack Developer with a strong background in developing award-winning applications for a diverse clientele. Adept at understanding client requirements and delivering projects on time and within budget.
Work Experience
Full Stack Developer
Fresher
Lead a team of developers in creating scalable web applications.
Implemented RESTful APIs and integrated third-party services.
Optimized application performance and improved user experience.
Full Stack Developer
Web Innovators LLC | Jun 2015 - Dec 2017
Developed and maintained web applications using React and Node.js.
Collaborated with designers to create user-friendly interfaces.
Conducted code reviews and provided mentorship to junior developers.
Education
bca
Skills
Python,JavaScript,Php
JavaScript
HTML, CSS

Conclusion

In conclusion, this documentation has outlined the features, functionalities, and deployment procedures of the Web Resume Builder software. Designed to simplify the resume creation process, our application offers users a user-friendly interface and customizable templates, ensuring they can create professional and personalized resumes effortlessly.

We have provided detailed instructions on how to register, log in, create and manage resumes, and download them in various formats. The application is built with security and user experience in mind, enabling users to store their information safely while providing easy access whenever needed.

As we move forward, we remain committed to enhancing the software based on user feedback and evolving industry standards. We encourage users to share their experiences and suggestions to help us improve our platform continuously.

Thank you for choosing our Web Resume Builder. We hope this tool empowers you to present your skills and experiences effectively in your job applications. Happy building!