

Resume Generator Web Application

Service Charter Documentation

1. Purpose

To provide users with an intuitive and efficient platform to create professional, visually appealing resumes tailored to various job roles, enhancing their chances of securing employment by simplifying the resume creation process.

2. Objective

- Fast and effortless
- Visually professional
- Customizable
- Exportable in multiple formats

3. Demand / Opportunity

Resume creation remains a time-consuming task for job seekers. This project aims to fill that gap, helping users build resumes that align with current hiring standards.

4. Business Requirements

User Login System: Users log in securely to access their saved resumes and preferences.

Resume Form Input: Users fill out personal details, education, experience, skills, etc.

Template Selection: Users choose from multiple layout templates to customize resume appearance.

Resume Export: Users export resumes in PDF format.

5.Techical Requirements

Login & Session: Implemented via Express Session with hashed passwords and secure sessions.

Resume Form Processing: Backend APIs handle data storage and processing with validation.

Template Rendering: Templates styled with CSS and selected dynamically through the UI.

Export Functionality: PDF export via the Browser Print Function

6.Technological Requirements

- Frontend: React, CSS
- Backend: Node.js + Express
- Database: MySQL
- Auth: Express Sessions
- Export Tools: Browser PDF
- Hosting: CPanel
- Dev Tools: GitHub, VS Code, Postman

7.Team Members

- Vaishnavi Kedar
- Utkarsh Shirbhate
- Sayuj Singh
- Tejashri Darade

8.Stakeholders

- Job Seekers / Candidates
- Application Owners / Product Owners
- Developers / Software Engineers

9.Resources Needed

- Technical documentation for frameworks and tools
- Cloud deployment access

- Testing utilities (Postman)
- Human resource availability as per RACI chart

10.Risk Analysis (PESTLE-based)

- Political: Cloud service access may be restricted in certain regions
- Technological: Export failures, integration bugs
- Legal: Data privacy concerns (GDPR compliance)
- Environmental: N/A

11.RACI Matrix

Task / Deliverable	Sayuj Singh	Vaishnavi Kedar	Utkarsh Shirbhate	Tejasri Darade
Project Planning & Coordination	A, R	R	C	C
Frontend UI Development	R	A, R	R, C	I
Backend API Development	R	A, R	R, C	I
Database Design & Integration	A, R	R	R, C	I
Resume Template Design	C	A, R	A,R, C	I
User Authentication System	A, R	R	C	I
Testing & Debugging	R	A, R	C	C,R
Deployment & Hosting	A, R	R	C	C
Documentation & Reporting	A, R	R	C	C
UI/UX Feedback and Improvements	C	A	C,R	A, R
UI/UX	C	A	C,R	A

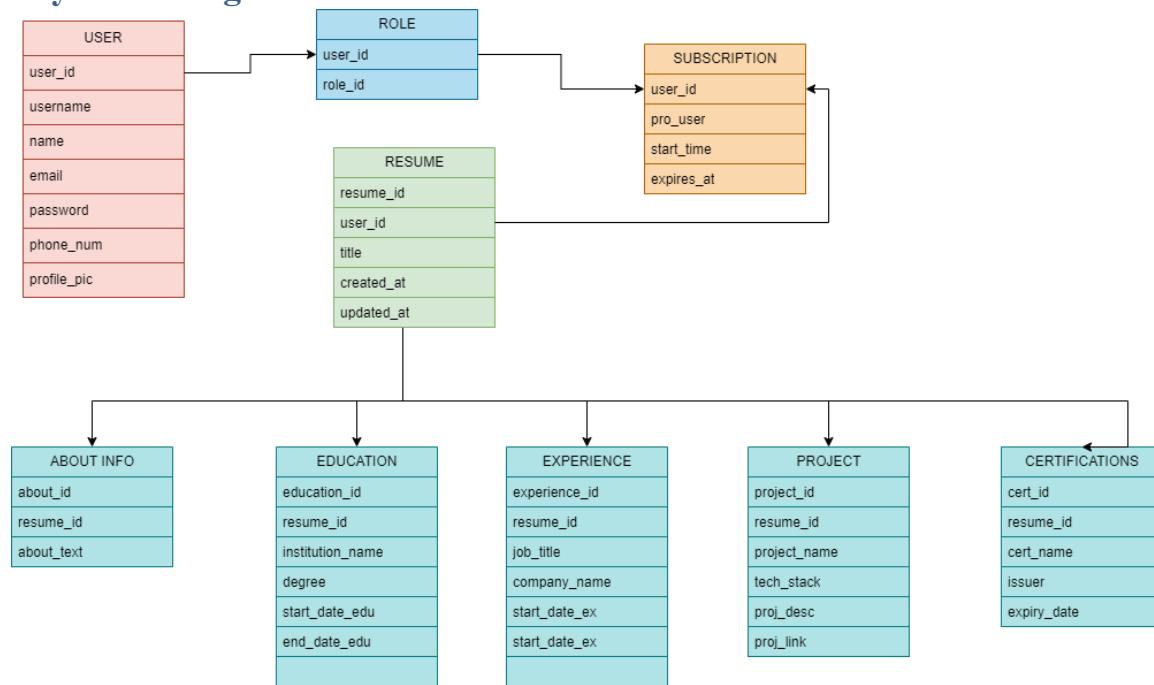
12.Timeline / Milestone

Milestone	Date
Requirement Analysis & Planning	01 June 2025
Frontend Development	08 June 2025
Backend Development	11 June 2025
Testing	15 June 2025
Deployment	18 June 2025

Project Completion

20 June 2025

13. System Design -ERD



14. Tech Stack And Architecture

◇ Frontend

- **Framework:** React
- **Styling:** CSS
- **Responsiveness:** Mobile-first design with flexible resume layouts

◇ Backend

- **Runtime:** Node.js
- **Framework:** Express.js
- **API Services:** RESTful APIs for resume handling, user management

◇ Database

- **Type:** MySQL
- **Entities:**
 - User
 - Resume
 - Template
 - ResumeSection
 - SectionItem
 - Feedback
 - ResumeExportLog
- **Relationships:** Implemented using foreign keys

Authentication (Auth)

- **Methods:** Express Session
- **Security Features:**
 - Password hashing with bcrypt
 - CSRF protection
 - Role-based access control (Admin/User)
 - Secure session/token management

Hosting

- Options:
 - **Frontend:** CPanel
 - **Backend:** CPanel
 - **Database:** MySQL
 - **Resume Export Service:** Browser PDF
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AI Features

- Resume content suggestions using NLP
- Auto-extraction of data from uploaded resumes (e.g., PDFs)
- Grammar and tone improvement
- Keyword optimization for job matching
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15. Testing And QA strategy

Unit Testing

- API endpoint testing (e.g., resume creation, export, feedback submission)
- Individual modules: template rendering, authentication

Integration Testing

- Full resume creation flow (user → form → export)
- Database integration and validation
- AI-feedback loop

⌚ Manual Testing

- End-to-end UI testing for layout responsiveness
- Usability testing (template selection, preview, export)
- Error handling and feedback clarity
- Tested against multiple browsers and devices