Resume Parser Project - Detailed Functionality Documentation

Members:

Syed Areeb Hussain 22k-4042

Syed Huzaifa Ali 23k-0004

Haris Ahmed 23k-6005

Arbaz Hasan 22k-4031

# Login/Signup Page

* A user may either login or sign up
* Email and password are required to log in to the system
* If a user opts for signing up, they would have to enter their name, email, and password
* During signup, users have the option to register as either a Recruiter or a Candidate

# Candidate Panel

* Dashboard Overview:
  + Displays profile completion status
  + Shows job listings relevant to candidate skills
  + Lists applications submitted with their current status
  + Provides quick access to resume upload and job search
* Profile Management:
  + Candidates can view and edit their personal information
  + Upload and update resume (PDF, DOCX formats supported)
  + View AI-generated analysis of their resume
  + Track profile completion percentage
* Resume Management:
  + Upload resume documents in various formats
  + View parsed information extracted by AI
  + Edit parsed information if needed
  + Receive feedback on resume quality and suggestions for improvement
* Job Search:
  + Browse available job listings posted by recruiters
  + Filter jobs by title, location, skills required
  + View detailed job descriptions and requirements
  + See match percentage between resume and job requirements
* Application Management:
  + Apply to jobs with optional cover letter
  + Track status of all applications (Applied, Under Review, Shortlisted, Rejected)
  + View history of all applications submitted
  + Receive notifications about application status changes

# Recruiter Panel

* Dashboard Overview:
  + Displays number of active job listings
  + Shows total applications received
  + Provides quick access to resume parsing tools
  + Highlights recent applications
* Company Profile:
  + Manage company information and details
  + Update company logo and description
  + Edit contact information and location
* Job Management:
  + Create new job listings with detailed requirements
  + Specify job title, location, required skills, and description
  + Edit existing job postings
  + View all posted jobs with application statistics
  + Remove job listings when positions are filled
* Resume Parsing:
  + Upload and analyze candidate resumes using AI
  + Extract key information like skills, education, and experience
  + Match candidate profiles against job requirements
  + Generate match scores and candidate rankings
* Application Review:
  + View all applications received for each job posting
  + See candidate details and parsed resume information
  + Analyze resume match percentage with job requirements
  + Update application status (shortlist, reject, etc.)
  + Contact candidates directly through the platform
* Candidate Search:
  + Search for candidates based on skills, experience, or education
  + Filter candidates by match percentage
  + View detailed candidate profiles and parsed resume data
  + Compare multiple candidates for a position

# AI Analysis Features

* Resume Parsing:
  + Extract text from PDF and DOCX documents
  + Identify and categorize information into sections (education, experience, skills)
  + Recognize contact information and personal details
  + Handle various resume formats and structures
* Skill Extraction:
  + Identify technical skills, soft skills, and certifications
  + Match skills against industry-standard terminology
  + Categorize skills by relevance and proficiency level
  + Compare skills against job requirements
* Match Scoring:
  + Calculate match percentage between resumes and job requirements
  + Weight different factors (skills, education, experience) in the scoring algorithm
  + Provide detailed breakdown of match components
  + Suggest improvements to increase match percentage
* Resume Feedback:
  + Analyze resume quality and completeness
  + Suggest improvements for better readability
  + Identify missing key information
  + Recommend formatting and content changes

# General Features

* User Authentication:
  + Secure login with email and password
  + Role-based access control (Candidate/Recruiter)
  + Password reset functionality
  + Session management and token-based authentication
* Notifications:
  + Email notifications for important events
  + In-app notifications for application status changes
  + Alerts for new job postings matching candidate skills
  + Reminders for incomplete profiles or applications
* Navigation:
  + Intuitive menu system with role-specific options
  + Dashboard with quick access to common functions
  + Breadcrumb navigation for complex workflows
  + Mobile-responsive design for all pages
* Logout:
  + Users can securely log out from the system
  + Session termination and cleanup
  + Redirect to login page after logout