Resume Selector

Team Name: Ancient Debuggers.
Project Title: Resume Selector.
Instructor/Mentor: Dr. Charu Sharma, Radhika Rao.

Project Information:

Our project, Resume Selector, is targeted towards two types of users: Applicants seeking jobs and Recruiters who are looking for suitable candidates.

The user needs to sign-up and login, or can directly upload their resumes for a one-time search, and is directed towards their page. The applicant should upload their resume, which is essential. This is sent to all recruiters, who may accept the candidate if desired. Finally, a status table shows the candidate if they have been accepted, rejected, or status pending by the recruiter of choice.

At the recruiter's end a list of candidates and on searching for a particular skill, the candidates are filtered. The recruiter may choose to then see the applicant's resume and accept or reject accordingly. This parsing to extract skills is done from the resume details using python.

This gets reflected back on the applicant's status table. Thus, resume selection is implemented.

Github Link: https://github.com/debashish05/Resume-Selector

Video Link:
https://drive.google.com/file/d/1Z3MPaKYP9vIq1i-n2SPC1g7IYTkKsukI/view?usp=sharing

Requirements:

ID	Name	Description	Category	Notes	Owner
1.	Login Page	Recruiter login page and user login page. The username and password given are updated in the recruiter and user table in the database and on future logins, this username and password are checked.	Frontend		Admin
2	Publishing Job Description	Based on the job description, users can apply. Job ID will be a one-one mapping with the recruiter.	Frontend / Backend		Recruiter
3	Uploading Resume	Users can upload resumes in pdf format and update the database.	Frontend		Job applicant
4	Job Application	Job Application request based on the particular Job ID	Frontend		Job applicant
5	Extraction of text from resume	The pdf of the resumes added can be changed to text format using OCR(Optical Character Recognition).	Backend		Admin
6	Job Applicants Resume List	Recruiter panel to see the list of all resumes.	Frontend		Recruiter
7	Interface to query Job Applications	Search space where the recruiter will search resumes based on keywords entered.	Backend		Admin
8	Status bar for User	User Status Bar accepted or rejected or in review	Frontend		Admin
9	Display Search Results	Interface for displaying search results of queries made by the recruiter.	Frontend		Admin
10	Final Shortlisting	Accepted application interface and removes applicants if they are selected.	Frontend		Recruiter
11.	Contact us and Feedback	Interface to contact the admin of the website and provide feedback.	Frontend		Admin

Software Used:

MySQL, Xampp, and phpMyAdmin.

Technology Used:

- **Frontend:**

a. HTML 5, CSS 3, Bootstrap - HTML is used for frontend development. For our Project, it will be used to build the UI. CSS is used to beautify the webpage. Bootstrap is used to design some common components.

b. JavaScript: It is used to manipulate the frontend. It will help with dynamic manipulation of the front end based on the user actions.

- **Backend:**

a. PHP (Hypertext Preprocessor): It is an open-source scripting language. Mainly executed on the server-side. Using PHP we will manipulate the information stored in the database.

b. MySQL: It is a relational Database management system using which we will create a database where we will store all information.

c. Python: Used to convert resumes in pdf format to texts and extract useful information like College, Email, Mobile Numbers, Skills, Designations, Degree, Disciplines, and entire text format of PDF.
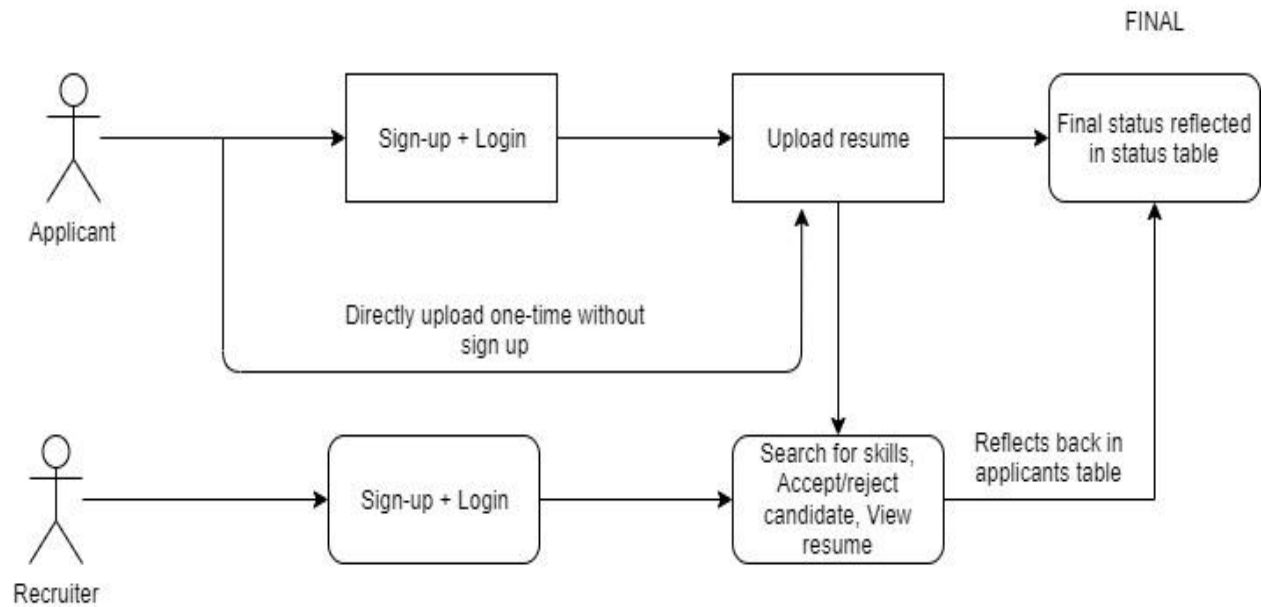
Working:

Figure 1.1 Diagram depicting the Workflow

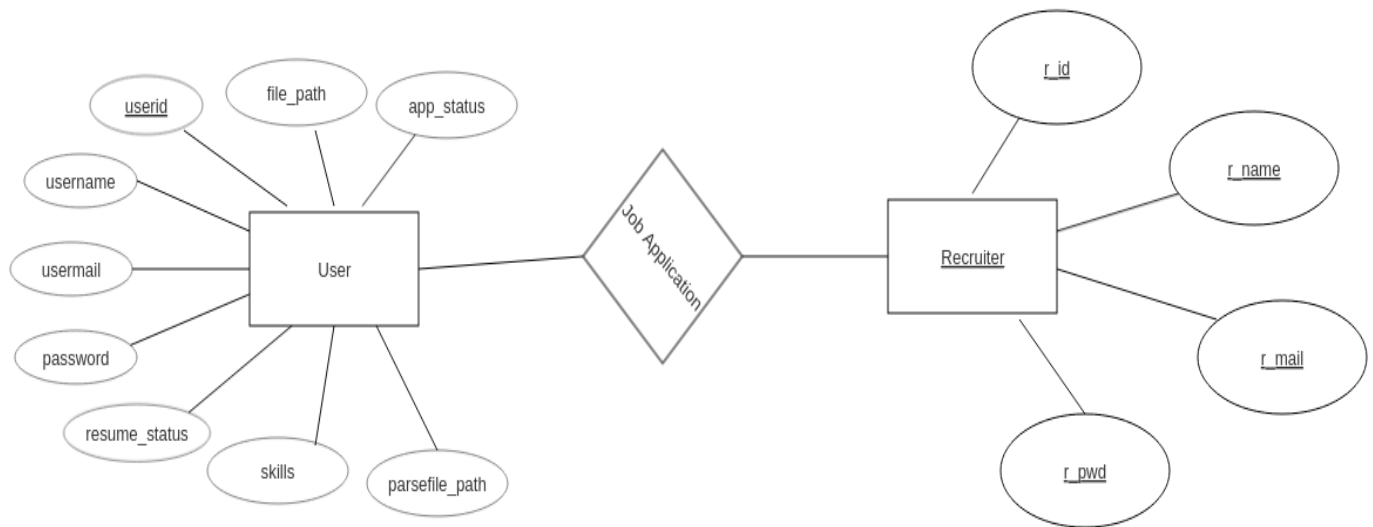Figure 1.2 ER Diagram of Database

The workflow is as follows:

1) Jobseeker will upload the resume in the portal. It is not necessary to log in to apply for a job. They can choose to sign up and log in or directly upload their resume in pdf format.
2) Similarly, the recruiter will create an account by signing up and logging in. Every new user's record will be stored in the database. It is mandatory for an applicant to upload their resume in order to find a job.
3) The resume parser will parse the pdf and extract useful information from the pdf.
4) Based on the applications, the recruiter can search for the candidates he/she requires by the keyword skills desired. This filters the candidates displayed to the recruiter.
5) The recruiter can accept or reject an application.
6) The status of the application is updated to the applicant's status table.

Contribution Details:

1) Annapoorani Anantharaman (2021201017) :
   Website design - Login, recruiter and applicant page design using HTML5, CSS, JS, Bootstrap (Front End).
2) Vishal Pawar (2021201025):
   Added functionality of Upload Files in the DB and save on local machine/server. Integrated modules from front end and back end.
3) Debashish Roy (2021201034):
   Established connection from PHP to Python. Parsed the pdf file and extract information like Skills, Mobile No., Email, College Name, Degree, Designations using Python. And propagated the extracted information to MySQL.
4) Jatin Gupta (2021201048):
   Helped in Front End
5) Subhra Chakravorty (2021201078):
   Connected the backend modules of applicant and recruiter.After the resume file was parsed, added the skills from the parsed pdf file in the database.