Project: AI Resume Parser

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Phase 1 & Phase 2 Planning

**Purpose**: Implement phase I and phase II for the capstone project.

* Phase I: Identifying Problems, Opportunities, and Objectives
* Phase II: Determining Human Information Requirements

**Phase 1 Planning ( Week 1) & Phase 2 Planning (Week 1 - Week 2)**

P1 Dates: January 29 - February 5

P2 Dates: January 29 - February 12

1. Phase 1: Identifying Problems (Planning)
2. Phase 2: Determine Human Information Requirements (Planning)
3. DoneDetermine topic
4. DoneIdentify problem and objective
5. DoneDetermine how users will accomplish their work when interacting with our system and how to make our system more useful and usable.
6. DoneCreating our timeline

## **Determine topic:**

Our project aims to create a Resume Parser using AI to enhance the hiring process for job recruiters and simplify the job application process for applicants. The Resume Parser will scan resumes to assess whether an applicant's qualifications meet the job requirements and provide feedback to the applicant if their resume requires improvement.

## **Identify problem and Objective:**

**Topic:** AI Resume Parser

**Problems:**

Our problems are that current AI Resume Parsers are susceptible to bias and unfamiliar formats that act as a barrier for qualified applicants to proceed to the next hiring stage.

**Objective:**  
The primary objective of this project is to empower recruiters to efficiently identify and source talented applicants by eliminating the barrier caused by format issues and mitigating bias from AI that may prevent otherwise qualified candidates from passing through resume parsing systems. On the applicant side, the goal is to provide candidates with real-time feedback, specifically addressing any formality issues within their resumes. This approach aims to ensure a smoother and more inclusive application process, fostering better matches between talented individuals and prospective employers.

## **Determine how users will accomplish their work when interacting with our system and how to make our system more useful and usable.**

### **How do users accomplish their work when interacting with a computer?:**

**Applicant's side:**

Users (applicants) will pick a job that they are interested in.

1. Users will fill up some basic information like Name, Last name, Email, Phone number and upload their resumes to the User Interface after they pick a job.
2. The system will then scan the resumes to assess whether the qualifications meet the job requirements whether it is approved and passed the A.I resume parser checking or not.
3. If the resume gets accepted then the system will send the resume to the designated database and notify the user that it went through.
4. If the resume gets declined by the A.I resume parser, the system will provide real-time feedback to the applicant on any formality issues or improvement so that they can try to resubmit their resume.

**Recruiter's side:**

1. Recruiters need to click the post job.
2. Recruiters need to make an account first into our website before they can post the job.
3. Recruiters need to Fill out the information about the jobs they will be posting such as Job Name, About Job, Qualifications, Experience, Upload Job Logo, and customize Unique keywords for Resume A.I Parser.
4. Recruiters can review the resume that got accepted from Resume A.I Parser
5. Recruiters can update job information and close job.

### **How to make the new system more useful and usable?:**

We will gather a diverse range of jobs to match with a diverse range of resumes.

Categories of Jobs:

1. Tech/Computer Science
2. Marketing/Social Media
3. Healthcare
4. Finance/Business
5. Accounting
6. Psychology
7. Engineering

**Functional Usefulness and Usability:**

1. User-friendly interface: Design an intuitive interface that is easy for both applicants and recruiters to navigate.
2. Clear feedback: Ensure that the feedback provided to applicants is clear, actionable, and helps them improve their resumes.
3. Customization options: Provide options for recruiters to customize the parsing criteria based on their specific job requirements.
4. Data privacy and security: Implement robust data privacy and security measures to protect sensitive information in the resumes.
5. Continuous improvement: Regularly update and improve the AI algorithms based on feedback and new developments in resume parsing technology.

**Elaboration**

**Useful:** Users will be able to receive real-time feedback as opposed to waiting for weeks for a rejection letter/email without no feedback as to why they were denied/rejected.

The system will provide a platform for recruiters to post their job listings and customize their parsing criteria.

**Usable:** Users will be using a system prepared in matching a variety of job fields with resumes.

## **Creating our Timeline**

**Timeframe:**

Software Development Life Cycle(SDLC):

**Phase 1 Planning ( Week 1) & Phase 2 Planning (Week 1 - Week 2)**

P1 Dates: January 29 - February 5

P2 Dates: January 29 - February 12

1. Phase 1: Identifying Problems (Planning)
2. Phase 2: Determine Human Information Requirements (Planning)

**Phase 3 Analysis (Week 2 - Week 3)**

Dates: February 5 - February 12

1. Analyzing system needs (Analysis)

**Phase 4 Design (Week 3 - Week 4)**

Dates: February 12 - February 19

1. Designing recommended system (Design)

**Phase 5 Implementation (Week 4 - Week 10)**

Dates: February 19 - April 1

1. Developing and Documenting Software (Implementation)

**Phase 6 Testing & Integration (Week 10 - Week 13)**

Dates: April 1 - April 22

1. Testing and Maintaining the system (Testing & Integration)

**Phase 7 Maintenance (Week 13 - Week 15)**

Dates: April 22 - May 6

1. Implementing and Evaluating the system (Maintenance)

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