

TEAM KODAK



SmarthirePRO

CS691 CRN21669



Agenda

Team Member Roles and Responsibilities

Project Description

Team working agreement

Personas

Technologies and Algorithms

Diagrams

Product Backlog

Sprint 2

Metrics

Retrospective

Sprint 3

Project Demo

Team Member Roles and Responsibilities



Seungah choi
Full Stack Developer



Yadu Vamsi U.
Full Stack Developer



Sreeja Karukonda
QA Analyst and DBA



Aashlesha Shirole
Front-End Developer

Team Member Roles and Responsibilities



Hrushikesh Joshi
Backend and Data
Engineer



Sujay Sail
DevOps Engineer



Ashish Sudam
Data Engineer



Yash Jani
Front-End
Developer(React)
Site Reliability Engineer

Improvements

Reduce the number of bullet points

Included algorithms

Included GitHub link to the presentation



Project Description

Project Name:	Smart Hire Pro
Team:	Kodak
Project Description:	<p>Our project aims to create a job recommendation system that provides the user with a targeted list of jobs based on the skills and experience in the resume of the user</p>
Benefit Outcomes:	<p>Users can monitor their skill gaps to enhance their future job search strategies.</p> <p>The idea suggests an improved approach to applying or searching for a job in the hopes of reducing failed job applications.</p>
Github Link:	https://github.com/htmw/2024S-Kodak/wiki



Team Working Agreement

Team Kodak

SmartHirePro

CS691 (21669) SPRING 2024

Team Agreement

Communication

- Team will communicate with each other through slack and WhatsApp.
- There are going to be weekly overall team meetings, where all the 8 members are required to join, on every Saturday at 4PM. Fail to join will affect on the team negatively and their participation in the team.
- Technical team meetings, where front-end and back-end developers have their weekly meetings, on every Tuesday at 9PM. Fail to join will affect on the team negatively and their participation in the team.
- AWS DB team meetings, where all the DB team members have their weekly meetings, on every Tuesday at 10AM. Fail to join will affect on the team negatively and their participation in the team.

1

- Team members are expected to update the team beforehand if they are going to be absent for the meetings and ask to be kept up with what happened in the meetings until the next one.
- Each team member should complete the work before the deadline. In case one was not able to do so, inform rest of the team members so that rest of them can divide the work accordingly.
-

Work division and Participation

- Google workspace, GitHub and slack will be used to track and divide all our work.
- Every Team member must update the team in once in 2 days through slack of their progress, so the team is in the same page.
- The entire project work should be divided into equal parts, and equal responsibilities should be given to all the team members.
- Each team member should complete their part of the work before the deadline. If one is failed to do so, immediately report to the rest of the team members, and ask for assistant.
- In case member is absent during meetings, member must support whichever decision was approved during the meeting.

2

Signatures

Team member	Email
Seunghah Choi	sc02316n@pace.edu
Yadu Vamsikrishna	vu49059n@pace.edu
Hrushikesh Joshi	hj85754n@pace.edu
Yash Kalpesh	yz16719n@pace.edu
Ashish sudam	as43084n@pace.edu
Aashlesha Shirole	as90561n@pace.edu
Sreeja Karukonda	sk20404n@pace.edu
Sujay Sail	ss36001n@pace.edu

3

Maria, the Ambitious Software Engineer



Demographics:

Age: 24

Location: Amsterdam, Netherlands

Education: Bachelor of Arts in Film and Screen studies

Experience: none

Skills and Qualifications:

Proficient in Python, Java, and JavaScript

Experience with web development and machine learning

Strong analytical and problem-solving skills

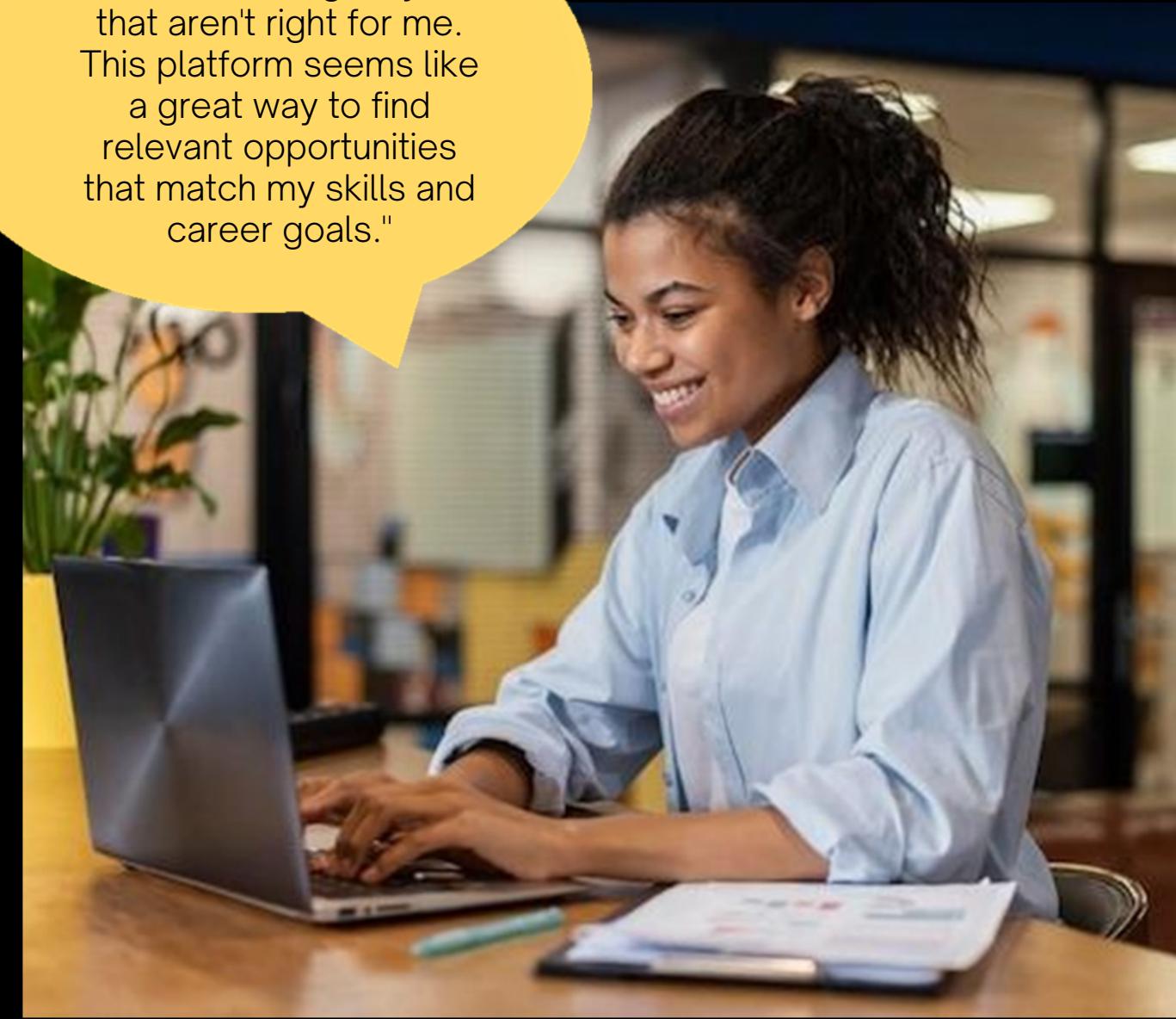
Excellent communication and teamwork abilities

Goals and Needs:

Looking for a challenging and rewarding software engineering role that utilizes her skills and experience.

Wants to find a job that aligns with her interests and career aspirations.

Struggles to stay up-to-date on the latest job openings and find relevant opportunities that match her profile.



Audrey, Film editor

Demographics:

Age: 24

Location: Amsterdam, Netherlands

Education: Bachelor of Arts in Film and Screen studies

Experience: none

Skills and Qualifications:

Proficient in adobe suites, and some Avid video editing

Experience with filming with a 16mm camera

Strong communication and problem-solving skills

Great teamwork abilities

Goals and Needs:

Searching for a full-time opportunity that uses her degree

To have a personal assistant-like tool that will suggest as many jobs as there are in the market



Daiman, Technical Support Assistant



Demographics:

Age: 27

Location: Birmingham, UK

Education: Bachelor's Degree in IT

Experience: 2 yrs

Skills and Qualifications:

Experience in Technical Support

Certified AWS CPP

100 hrs plus Data Science courses completed on Datacamp

Competed in multiple hackathons based on machine learning on HackerEarth

Goals and Needs:

Determine to change career paths from technical support to a career in Data science

After countless unfruitful applications, looking job recommendations that encapsulates all his recently





MVP

Core Functionality:

Resume Parsing:

Basic skill and experience extraction using pre-trained models or simple keyword matching.

No complex semantic analysis or advanced natural language processing (NLP) at this stage

Job Search:

Connect to the reed.co.uk Jobseeker API using basic search capabilities based on extracted keywords from the resume.

Initially, return a simple list of matching jobs without ranking or compatibility scoring.

User Interface:

Simple web interface:

Allow users to upload their resumes and receive a list of relevant job postings from reed.co.uk.

No fancy features or complex navigation at this stage.

Metrics and Feedback:

Track basic usage metrics like number of users, resumes uploaded, and job searches conducted.

Gather user feedback through surveys or interviews to understand their experience and pain points.

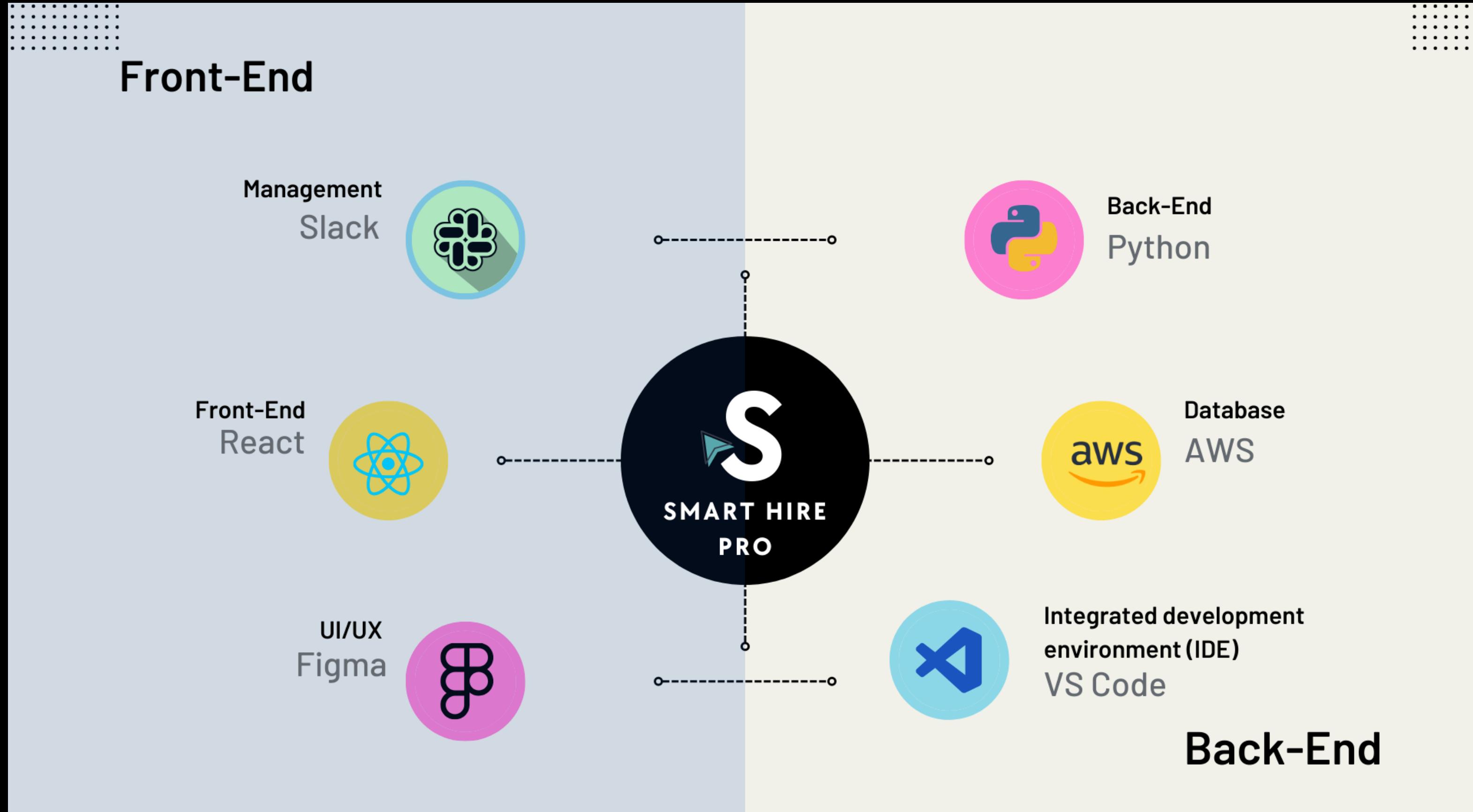
Key Learnings:

Validate the core concept of using AI to recommend jobs based on resumes.

Identify the most valuable features and functionalities to prioritize in future development.

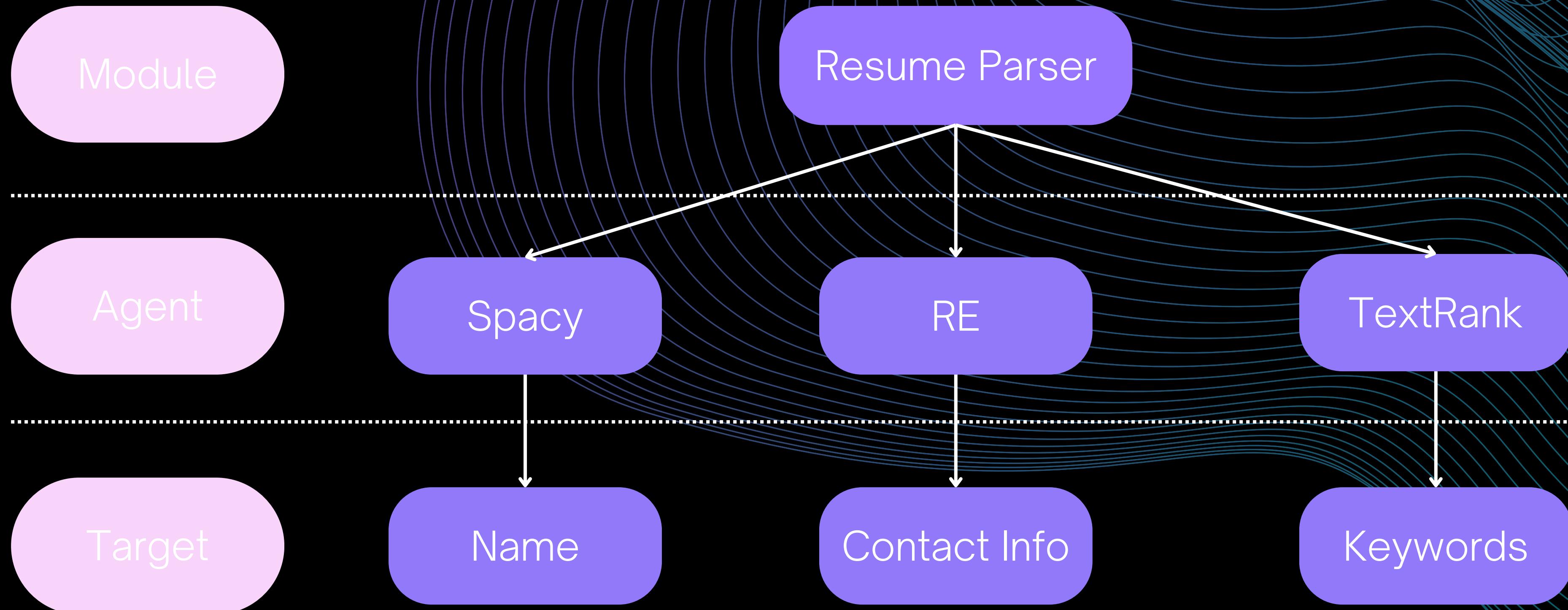
Gain insights into user behavior and preferences to refine the product roadmap.

Technologies



Algorithms

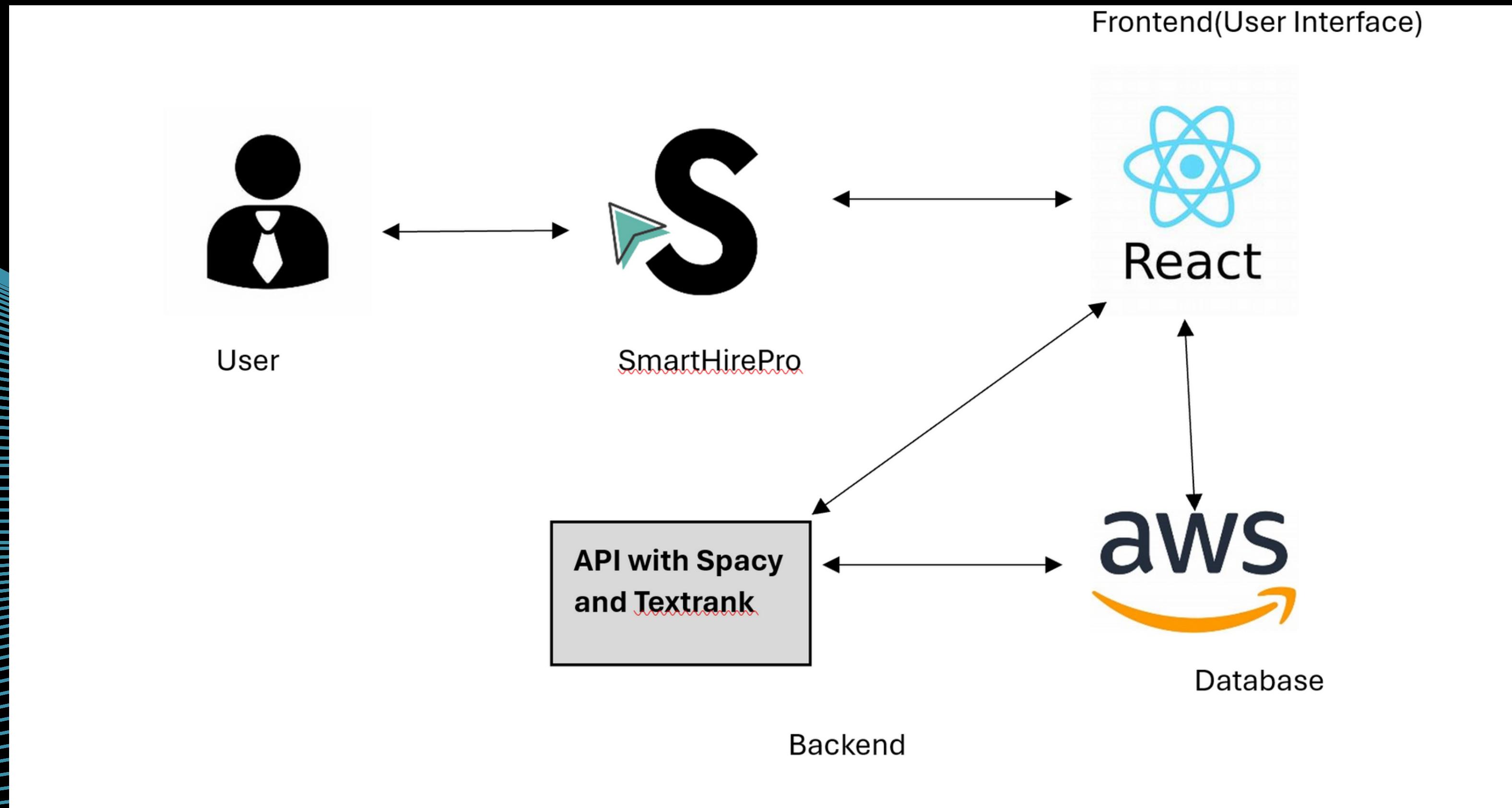
S



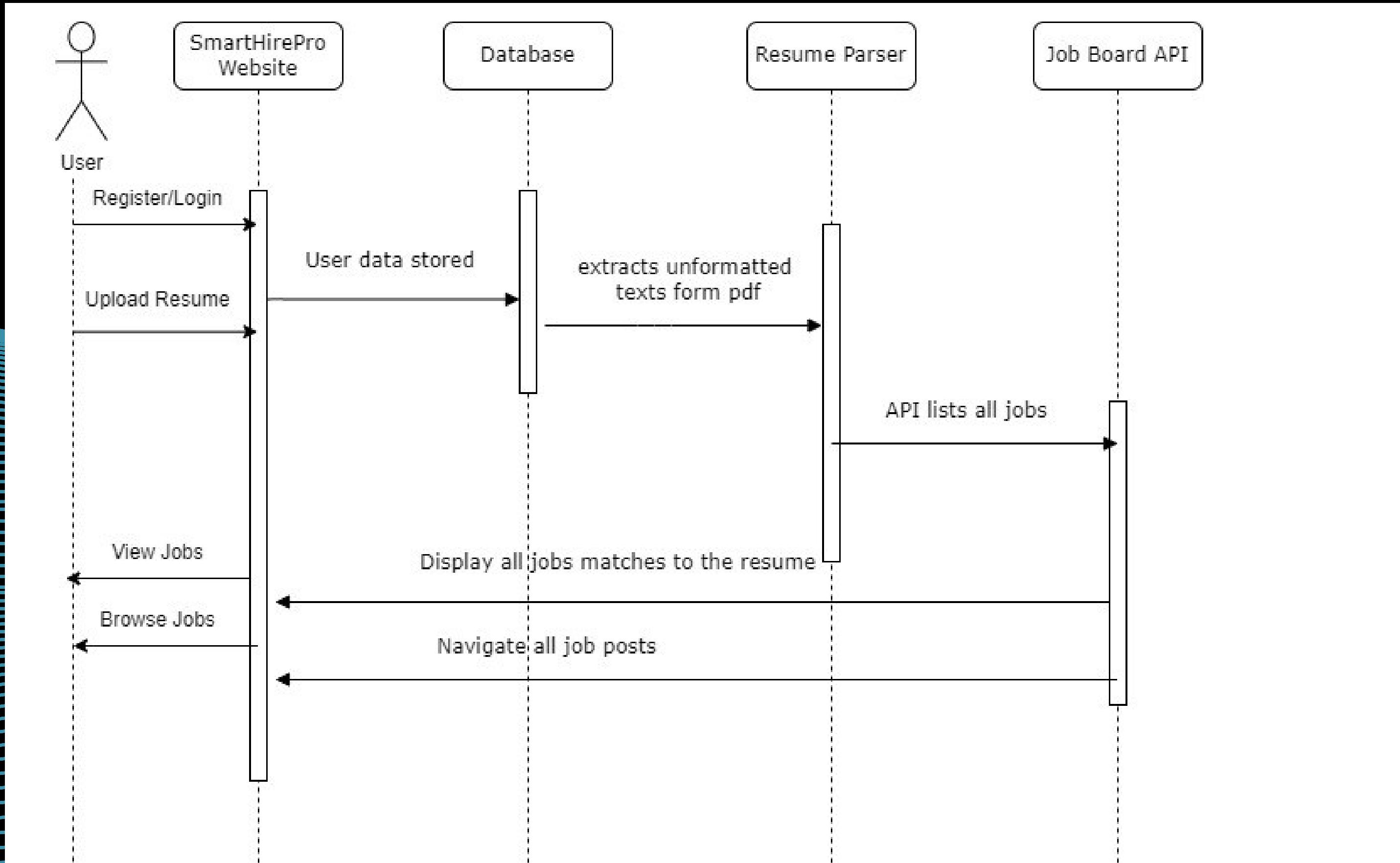
Diagrams

Architecture Diagram

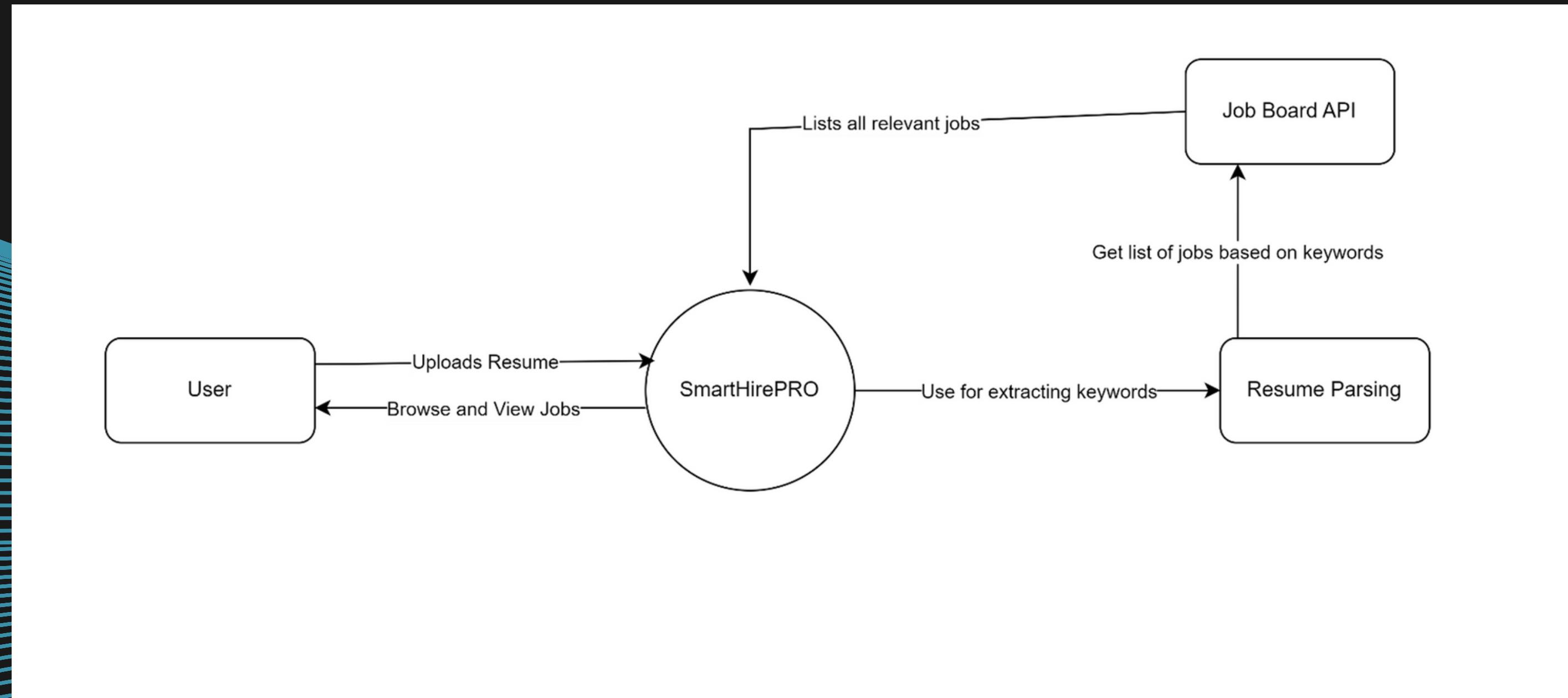
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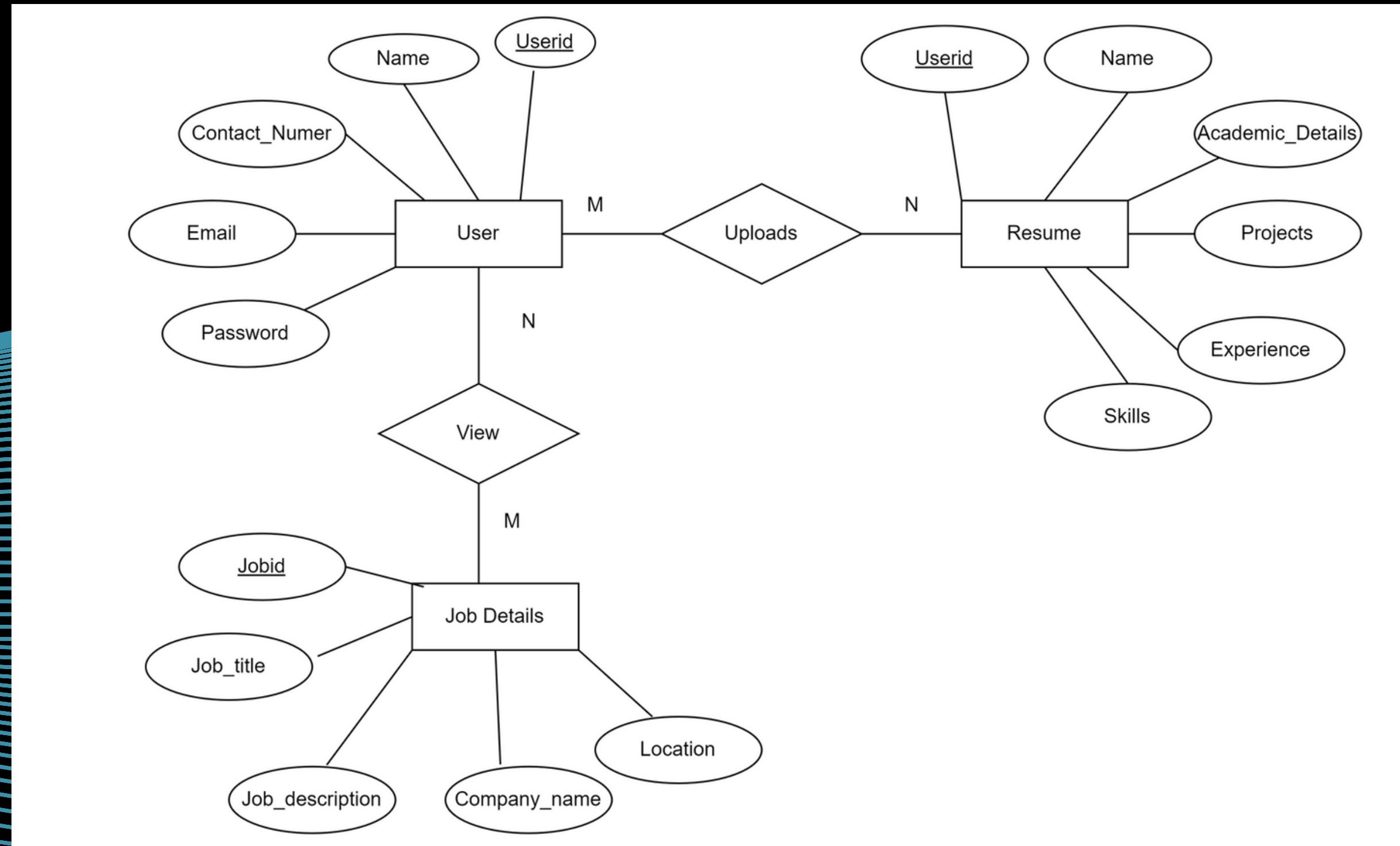
Sequence Diagram



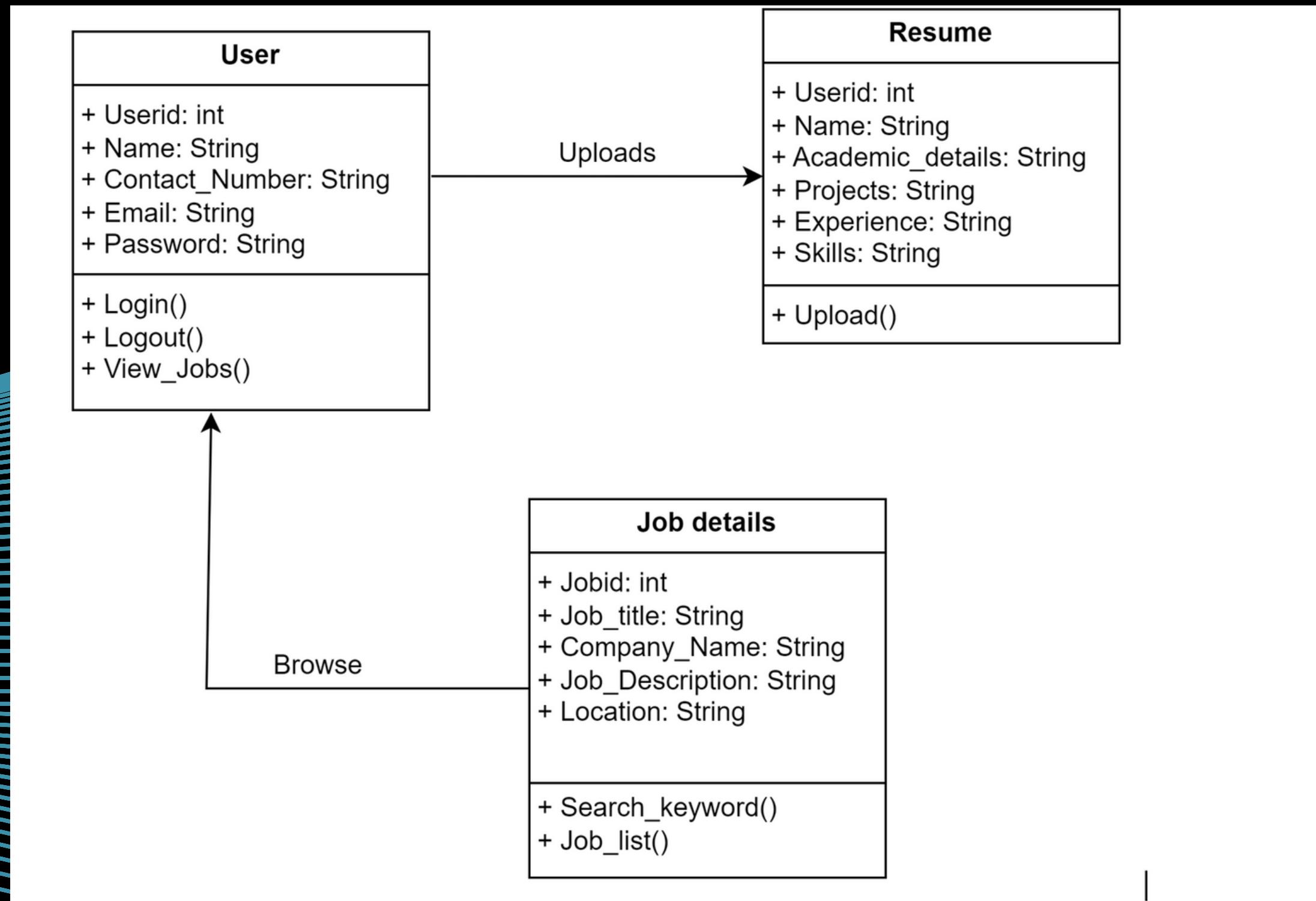
Context Diagram



ER Diagram



Class Diagram





Product Backlog

Type	Summary	Status	Due date	Start date	Assigned to	Completed Date
<input checked="" type="checkbox"/>	configure AWS RDS MySQL to connect with backend python utilities	TO DO ▾	Apr 10, 2024	Mar 14, 2024	Aashlesha Shirole, ... (2)	
<input checked="" type="checkbox"/>	configure EC2 instance to execute working environments for the app	TO DO ▾	Apr 10, 2024	Mar 14, 2024	Aashlesha Shirole, ... (2)	
<input checked="" type="checkbox"/>	design and create database tables	IN PROGRESS ▾	Mar 13, 2024	Feb 15, 2024	Ashish Sudam	
<input checked="" type="checkbox"/>	create AWS EC2 instance to run backend utilities	DONE ▾	Mar 13, 2024	Feb 15, 2024	Sujay Sail	Mar 6, 2024
<input checked="" type="checkbox"/>	create resume upload page where users can upload their resumes	DONE ▾	Mar 13, 2024	Feb 15, 2024	seung, Yash Jani	Feb 29, 2024
<input checked="" type="checkbox"/>	create AWS RDS DB instance and connect to local MySQL Server	DONE ▾	Mar 13, 2024	Feb 15, 2024	Sreeja Reddy Karukonda	Feb 17, 2024
<input checked="" type="checkbox"/>	create backend api interaction utility to collect data from job board api	DONE ▾	Mar 13, 2024	Feb 15, 2024	Hrushikesh Joshi	Feb 28, 2024
<input checked="" type="checkbox"/>	create backend utilities to extract critical information from a resume.	DONE ▾	Mar 13, 2024	Feb 15, 2024	Hrushikesh Joshi	Feb 24, 2024
<input checked="" type="checkbox"/>	create dashboard to view all available jobs along with some use tracking data	DONE ▾	Mar 13, 2024	Feb 15, 2024	Yash Jani	Mar 8, 2024
<input checked="" type="checkbox"/>	Deliverable#2 Retrospectives	DONE ▾	Mar 13, 2024	Feb 15, 2024	Aashlesha Shirole, ... (7)	Mar 12, 2024
<input checked="" type="checkbox"/>	Deliverable#1 recording	DONE ▾				



Product Backlog Cont.

Type	Summary	Status	Due date	Start date	Assigned to	Completed Date
✓	Deliverable 1 Retrospectives	DONE ▾				
✓	Identify team roles and responsibilities	DONE ▾				
✓	Set up GitHub Wiki page	DONE ▾				
✓	Get Approval	DONE ▾				
✓	Discussion of the project ideas	DONE ▾				
✓	Deliverable#1 PPT	DONE ▾				
✓	Deliverable#2 PPT	DONE ▾	Mar 13, 2024	Feb 14, 2024	Aashlesha Shirole, ... (7)	Mar 12, 2024
▣	create flexibility in resume input(docx ,pdf ,txt)	TO DO ▾	Apr 10, 2024	Mar 12, 2024		
▣	create a filter to search user-defined keywords(location, salary range, company size, or job type)	TO DO ▾	Mar 13, 2024	Feb 15, 2024		
▣	should implement job ranks based on keyword matching between resume and job descriptions	TO DO ▾	Apr 24, 2024	Mar 12, 2024		
✓	expand job search to include other job boards beyond Reed.co.uk	TO DO ▾				

Product Backlog Cont.



Type	Summary	Status	Due date	Start date	Assigned to	Completed Date
<input type="checkbox"/>	Integrate the app with a file system server	TO DO ▾	Apr 10, 2024	Mar 14, 2024		
<input checked="" type="checkbox"/>	create login page for the users to navigate through their account	IN PROGRESS ▾	Apr 10, 2024	Mar 14, 2024	seung, Yash Jani	
<input checked="" type="checkbox"/>	create sign up page where users can register on the SmartHirePro app	IN PROGRESS ▾	Apr 10, 2024	Mar 14, 2024	seung, Yash Jani	
<input type="checkbox"/>	create a config file to store configuration of the backend	TO DO ▾	Apr 10, 2024	Mar 15, 2024		
<input checked="" type="checkbox"/>	create backend utility to parse job data from the job board api	IN PROGRESS ▾	Apr 10, 2024	Mar 15, 2024	Hrushikesh Joshi	
<input checked="" type="checkbox"/>	create a model to compare similarity of a job description and user skills	TO DO ▾	Apr 10, 2024	Mar 14, 2024	Hrushikesh Joshi	
<input type="checkbox"/>	create backend utilities to upload user information to a database	TO DO ▾	Apr 10, 2024	Mar 14, 2024		



Sprint 2 Backlog

Type	Summary	Status	Due date	Start date	Assigned to	Completed Date
<input checked="" type="checkbox"/>	design and create database tables	IN PROGRESS ▾	Mar 13, 2024	Feb 15, 2024	Ashish Sudam	
<input checked="" type="checkbox"/>	create AWS EC2 instance to run backend utilities	DONE ▾	Mar 13, 2024	Feb 15, 2024	Sujay Sail	Mar 6, 2024
<input checked="" type="checkbox"/>	create resume upload page where users can upload their resumes	DONE ▾	Mar 13, 2024	Feb 15, 2024	seung, Yash Jani	Feb 29, 2024
<input checked="" type="checkbox"/>	create AWS RDS DB instance and connect to local MySQL Server	DONE ▾	Mar 13, 2024	Feb 15, 2024	Sreeja Reddy Karukonda	Feb 17, 2024
<input checked="" type="checkbox"/>	create backend api interaction utility to collect data from job board api	DONE ▾	Mar 13, 2024	Feb 15, 2024	Hrushikesh Joshi	Feb 28, 2024
<input checked="" type="checkbox"/>	create backend utilities to extract critical information from a resume.	DONE ▾	Mar 13, 2024	Feb 15, 2024	Hrushikesh Joshi	Feb 24, 2024
<input checked="" type="checkbox"/>	create dashboard to view all available jobs along with some use tracking data	DONE ▾	Mar 13, 2024	Feb 15, 2024	Yash Jani	Mar 8, 2024
<input checked="" type="checkbox"/>	Deliverable#2 Retrospectives	DONE ▾	Mar 13, 2024	Feb 15, 2024	Aashlesha Shirole, ... (7)	Mar 12, 2024
<input checked="" type="checkbox"/>	Deliverable#2 PPT	DONE ▾	Mar 13, 2024	Feb 14, 2024	Aashlesha Shirole, ... (7)	Mar 12, 2024

Test cases



Module resume_parser	Sub Module Personal data	Test Cases <ul style="list-style-type: none"> I want the resume parser module to extract all data from a resume in text format, So that I can obtain unformatted text from PDF resumes using the pdf miner agent. 	Acceptance Criteria /user stories <ul style="list-style-type: none"> The resume parser should successfully extract unformatted text from PDF resumes using the pdf miner agent. The test case status should be marked as "Pass." 	Agent in play pdf miner	Expected Result Unformatted text	Status Pass
Module resume_parser	Sub Module Personal data	Test Cases <ul style="list-style-type: none"> I want the resume parser module to extract the name of the user from unformatted text data of the resume, So that I can utilize a pre-trained language model for this extraction. 	Acceptance Criteria /user stories <ul style="list-style-type: none"> The resume parser should successfully extract the user's name using a pre-trained language model. The test case status should be marked as "Pass." 	Agent in play Pre-trained language model	Expected Result Name	Status Pass
Module resume_parser	Sub Module Personal data	Test Cases <ul style="list-style-type: none"> I want the resume parser module to extract the contact number of the user from unformatted text data of the resume, So that I can use a regular expression for this extraction. 	Acceptance Criteria /user stories <ul style="list-style-type: none"> The resume parser should successfully extract the user's contact number using a regular expression. The test case status should be marked as "Pass." 	Agent in play Regular Expression	Expected Result Contact Number	Status Pass
Module resume_parser	Sub Module Personal data	Test Cases <ul style="list-style-type: none"> I want the resume parser module to extract the email id of the user from unformatted text data of the resume, So that I can use a regular expression for this extraction. 	Acceptance Criteria /user stories <ul style="list-style-type: none"> The resume parser should successfully extract the user's email id using a regular expression. The test case status should be marked as "Pass." 	Agent in play Regular Expression	Expected Result email	Status Pass
Module resume_parser	Sub Module Personal data	Test Cases <ul style="list-style-type: none"> I want the resume parser module to extract keywords from unformatted text data of the resume, So that I can use TextRank for this extraction. 	Acceptance Criteria /user stories <ul style="list-style-type: none"> The resume parser should successfully extract keywords using TextRank. The test case status should be marked as "Pass." 	Agent in play TextRank	Expected Result keywords	Status Pass

Test cases cont.



Module	Sub Module	Test Cases	Acceptance Criteria /user stories	Agent in play	Expected Result	Status
Job Board API	Jobs List	<ul style="list-style-type: none"> I want the Job Board API to gather a list of jobs based on specified keywords, So that I can retrieve relevant job listings from the reed.uk API. 	<ul style="list-style-type: none"> The Job Board API should successfully gather a list of jobs from the reed.uk API based on provided keywords. The test case status should be marked as "Pass." 	reed.uk API	list of jobs	Pass
Job Board API	Job Details	<ul style="list-style-type: none"> I want the Job Board API to provide detailed information for a single job, So that I can view comprehensive details about a specific job from the reed.uk API. 	<ul style="list-style-type: none"> The Job Board API should successfully retrieve and display detailed job information from the reed.uk API for a specific job. The test case status should be marked as "Pass." 	reed.uk API	Job details	Pass
App	Resume Upload	<ul style="list-style-type: none"> I want the app to have a page where I can upload my resume, So that I can easily share my resume using a React-based upload link. 	<ul style="list-style-type: none"> The app should have a dedicated page with a React-based upload link for users to upload their resumes. The test case status should be marked as "Pass." 	react	Upload link	Pass
App	Dashboard	<ul style="list-style-type: none"> I want the app to include a dashboard page, So that I can easily navigate through the app and access various features. 	<ul style="list-style-type: none"> The app should have a dashboard page that allows users to navigate through different sections. The test case status should be marked as "Pass." 	react	Dashboard	Pass
App	Dashboard	<ul style="list-style-type: none"> I want the app's dashboard to include a page where I can browse through a list of jobs, So that I can explore available job opportunities. 	<ul style="list-style-type: none"> The app's dashboard should have a page displaying a list of jobs using React. The test case status should be marked as "Pass." 	react	List of jobs	Pass

Test cases cont.

Module	Sub Module	Test Cases	Acceptance Criteria /user stories	Agent in play	Expected Result	Status
App	Dashboard	<ul style="list-style-type: none">I want the app's dashboard to display a metric indicating the match score of a job to my resume,So that I can evaluate the compatibility of the job with my skills and experience.	<ul style="list-style-type: none">The app's dashboard should display a metric (score) representing the match between a job and the user's resume using React.The test case status should be marked as "Evaluating" until the metric display is implemented and verified.	react	Score	Evaluating

Acceptance Criteria



Id	User Story	Status	Place
1	<p>As a job seeker I want to be able to browse through jobs so that I can review jobs that I can apply to.</p> <p>Scenario: User is job hunting Given I'm a job seeker Then SmartHirePro should provide me with a list of jobs.</p>	To do	Dashboard
2	<p>As a job seeker I want to delve into demands of the industry so that I can update myself to the industry standard.</p> <p>Scenario: User wants to investigate jobs Given I'm a job seeker When I click on a job Then I can investigate the demands and rewards of a job.</p>	To do	Dashboard
3	<p>As a job seeker I want to delve into demands of the industry so that I can update myself to the industry standard.</p> <p>Scenario: User wants to investigate jobs Given I'm a job seeker When I click on a job Then I can investigate the demands and rewards of a job.</p>	To do	Job Details

Acceptance Criteria Cont.



Id	User Story	Status	Place
4	<p>As a job seeker I want to devote my time applying to only those jobs that suit me so that I increase my chance of getting hired.</p> <p>Scenario: User is on a deadline for job hunting Given I'm a job seeker When I am hunting for jobs Then I only want to browse jobs that are suitable for me</p>	To do	Dashboard
5	<p>As a job seeker I want to discover values and specifics of the employer and position so that I can determine if my interests and skills are aligned.</p> <p>Scenario: User is seeking for a job that encompasses his skills and interests Given I'm a user When I review a job Then I should see exhaustive details of the job.</p>	To do	Job Details
6	<p>As a job seeker I want to know if a job matches my profile so that I know I am applying to a job that is right for me.</p> <p>Scenario: User is hunting for a job Given I'm a job seeker When I browse through a job Then SmartHirePro should reveal if the job is suitable for me.</p>	To do	Dashboard (Score)

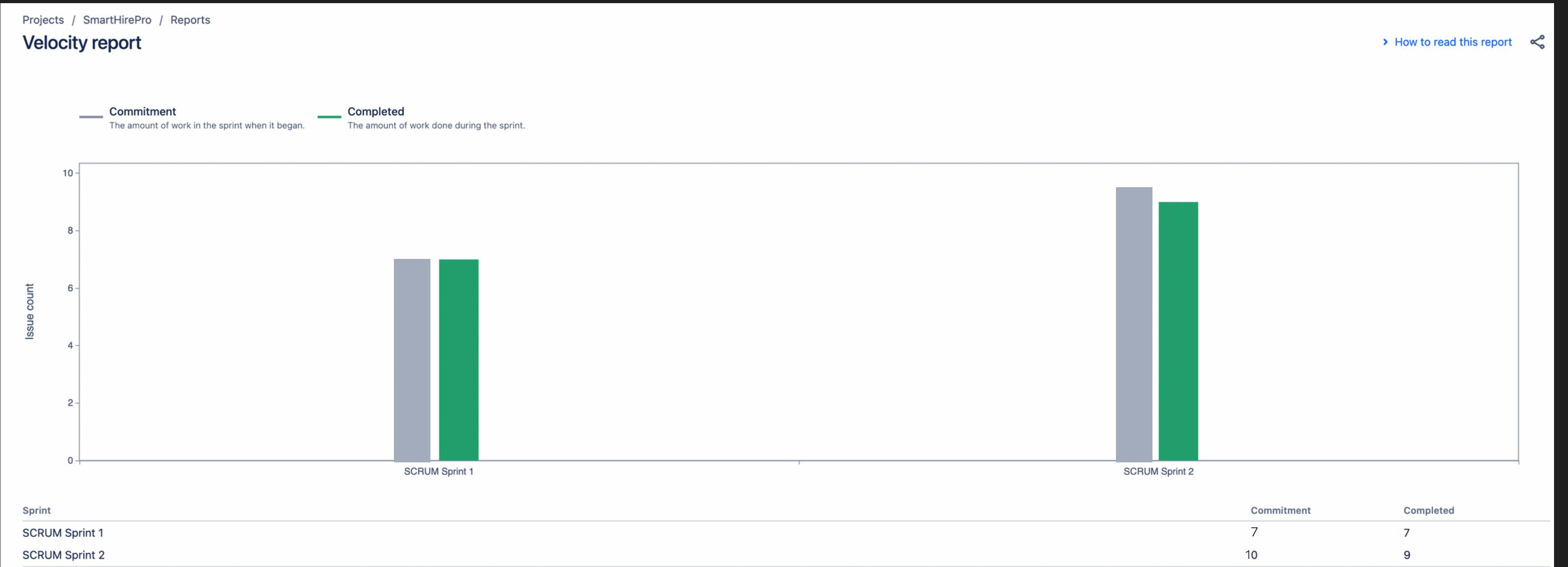
Acceptance Criteria Cont.



Id	User Story	Status	Place
7	<p>As a job seeker I want to quantify the match of my profile and a job so that I can put in extra efforts for an application and plan ahead.</p> <p>Scenario: User wants to reveal the suitability of job Given I'm a job seeker When I see a job that is a match for my profile Then I want a quantifiable score of the match.</p>	To do	Dashboard (Score)

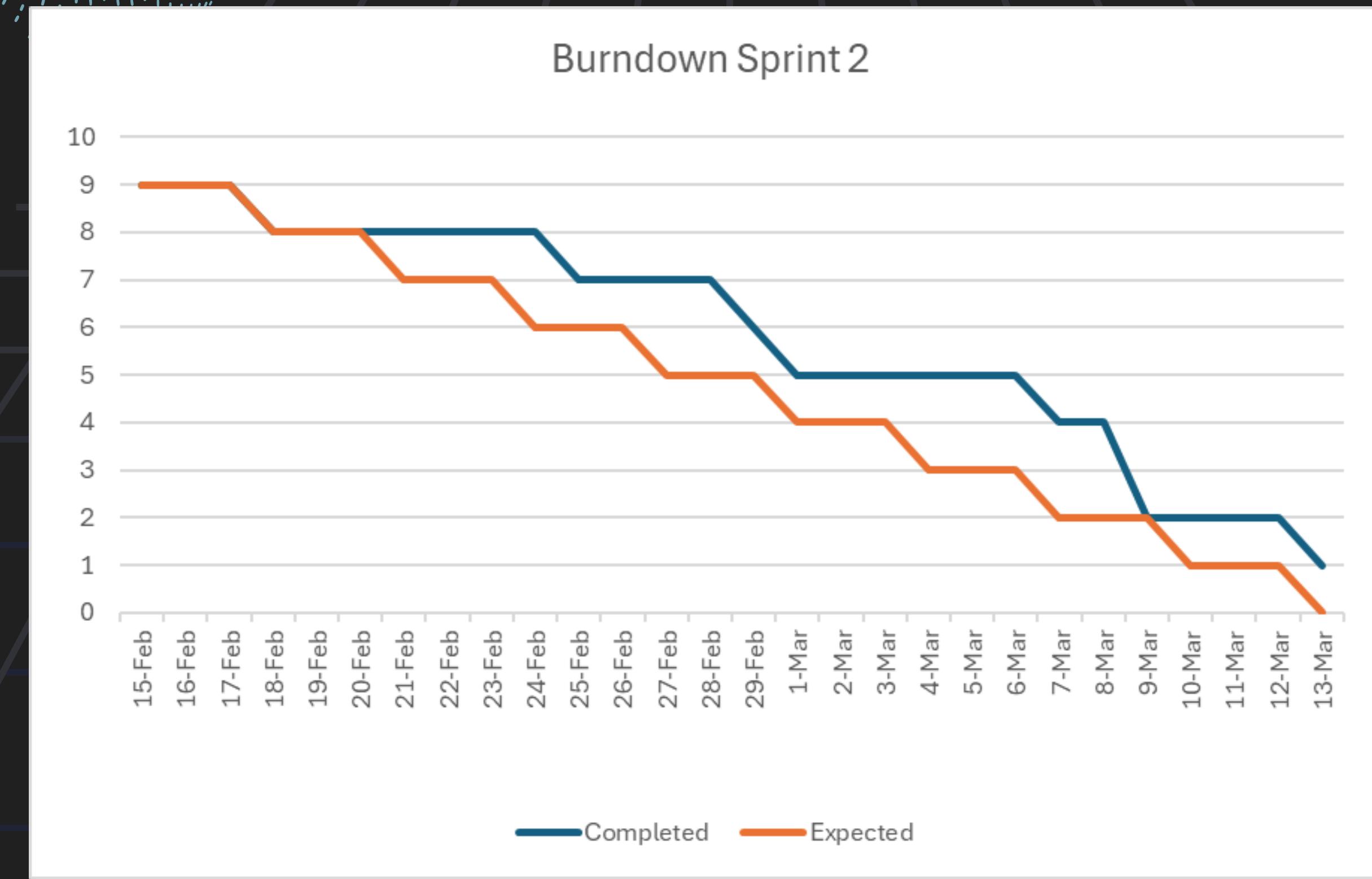


Team velocity





Burndown Charts





Completed/Committed Ratio

Type	Summary	Status	Due date	Start date	Assigned to	Completed Date
<input checked="" type="checkbox"/>	design and create database tables	IN PROGRESS ▾	Mar 13, 2024	Feb 15, 2024	Ashish Sudam	
<input checked="" type="checkbox"/>	create AWS EC2 instance to run backend utilities	DONE ▾	Mar 13, 2024	Feb 15, 2024	Sujay Sail	Mar 6, 2024
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<input checked="" type="checkbox"/>	create dashboard to view all available jobs along with some use tracking data	DONE ▾	Mar 13, 2024	Feb 15, 2024	Yash Jani	Mar 8, 2024
<input checked="" type="checkbox"/>	Deliverable#2 Retrospectives	DONE ▾	Mar 13, 2024	Feb 15, 2024	Aashlesha Shirole, ... (7)	Mar 12, 2024
<input checked="" type="checkbox"/>	Deliverable#2 PPT	DONE ▾	Mar 13, 2024	Feb 14, 2024	Aashlesha Shirole, ... (7)	Mar 12, 2024

8/9 = 88%
Done 88% In progress 12% Not started 0%



Retrospectives

kodak

What went well

Creating ppt together + 4	The work is being done at an acceptable and steady pace so far. + 3
Quickly adapting to new obstacles and teammates' absence + 3	Everyone learned new skills by working on the project + 2
Everyone doing their parts + 0	

What can be improved

Some proactive participation to contribute towards tasks by individuals. + 4	Team communication should be standardized to slack, rather than having to switch back and forth between slack and whatsapp. + 4
If you've taken on a commitment, make sure to keep the team informed about its progress. Provide updates on what has been completed and what + 4	We can plan ahead of time. + 2
To undertake a task independently rather than seeking assignment from others or the team. + 2	Individuals should communicate not just among their teams but with other teams also to be in tune with the progress of the product + 2
Utilize Jira more + 2	Communication amongst each other about next task + 1
People actually coming in meet + 0	To edit PPT on our own times instead of meeting times + 0
Collaboration on creating user stories so everyone is on the same page. + 0	

Action Items

Follow the team agreement meeting times and modify with teams if needed. At the beginning of sprint 3 team will gather and review the team agreement and make sure we are on track with the goals set + 6	be proactive + 6
Set deadlines for each task or user story. (Utilizing Jira.) + 2	Cross-team meetings will be much needed from sprint 3 so make sure every members is communicating + 1
To increase the number of sticky notes detailing successes rather than focusing solely on areas for improvement. + 1	Journal that is shared with all team members where we can update on what they have done (https://teamkodak.atlassian.net/wiki/spaces/~7120203a3617cc53d9413bb8a9b862db5a360e/page/edit-v2/262216) + 1
team needs to communicate and follow up in the slack chats and Jira about the progress of the project + 1	



Sprint 3

Type	Summary	Status	Due date	Start date	Assigned to	Completed Date
✓	configure AWS RDS MySQL to connect with backend python utilities	TO DO	Mar 14, 2024	Apr 10, 2024	Aashlesha Shirole, ... (2)	
✓	configure EC2 instance to execute working environments for the app	TO DO	Apr 10, 2024	Mar 14, 2024	Aashlesha Shirole, ... (2)	
❑	create flexibility in resume input(docx ,pdf ,txt)	TO DO	Apr 10, 2024	Mar 12, 2024		
❑	should implement job ranks based on keyword matching between resume and job descriptions	TO DO	Apr 24, 2024	Mar 12, 2024		
✓	create login page for the users to navigate through their account	IN PROGRESS	Apr 10, 2024	Mar 14, 2024	seung, Yash Jani	
✓	create sign up page where users can register on the SmartHirePro app	IN PROGRESS	Apr 10, 2024	Mar 14, 2024	seung, Yash Jani	
❑	create a config file to store configuration of the backend	TO DO	Apr 10, 2024	Mar 15, 2024		
✓	create backend utility to parse job data from the job board api	IN PROGRESS	Mar 10, 2024	Mar 15, 2024	Hrushikesh Joshi	
✓	create a model to compare similarity of a job description and user skills	TO DO	Mar 10, 2024	Mar 14, 2024	Hrushikesh Joshi	
❑	create backend utilities to upload user information to a database	TO DO	Apr 10, 2024	Mar 14, 2024		



UI/UX - UPLOAD PAGE



**SMART HIRE
PRO**

Upload your Resume!

Choose File No file chosen

Upload



UI/UX -DASHBOARD



Software Developer

Exciting software development opportunity...

[View Details](#)

Match Score



Job Score



Skills Match



Software Developer

Exciting software development opportunity...

[View Details](#)

Match Score



Job Score



Skills Match



Home



Software Developer

Exciting software development opportunity...

[View Details](#)

Match Score



Job Score



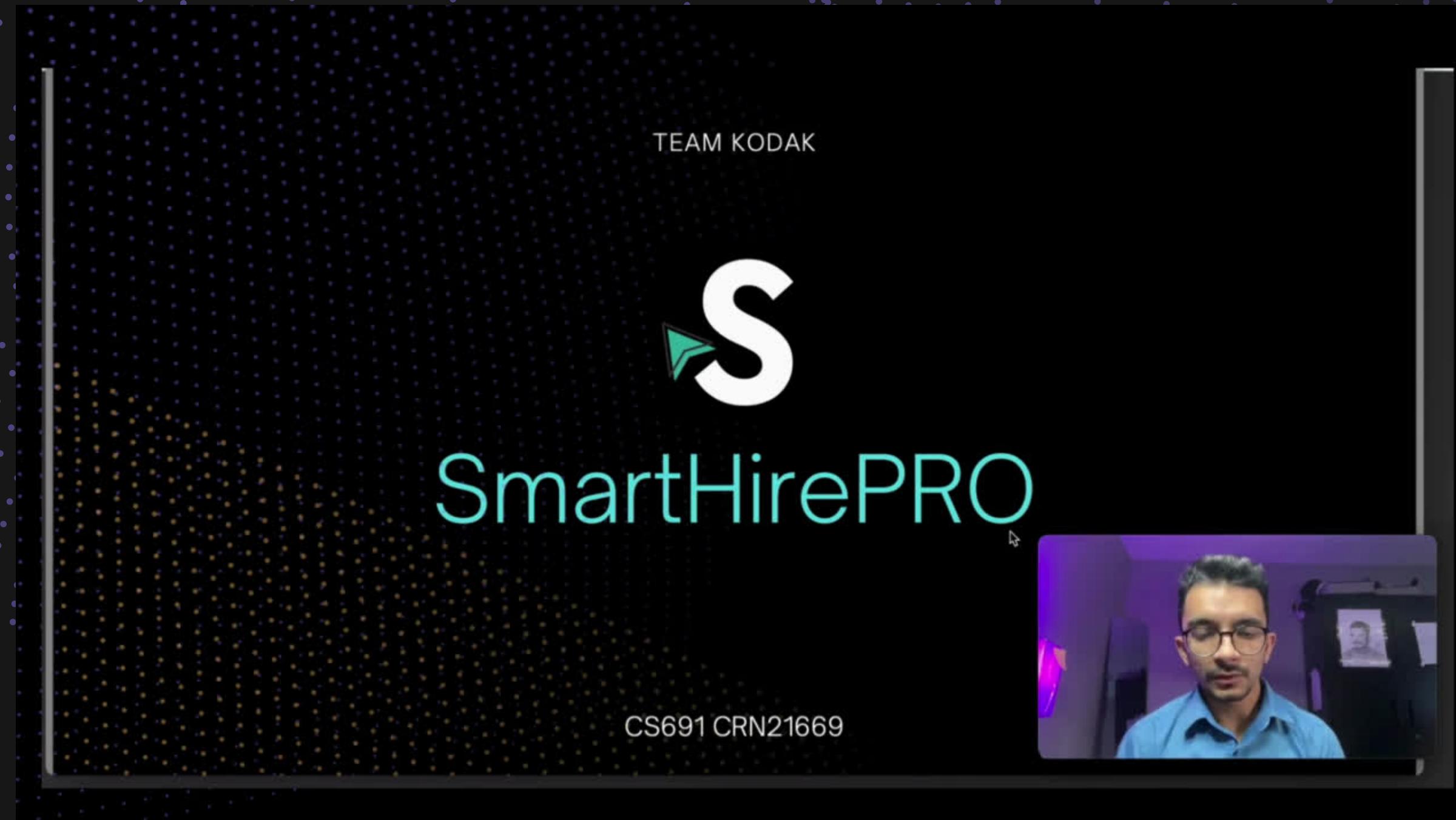
Skills Match



About

Contact

Live - DEMO

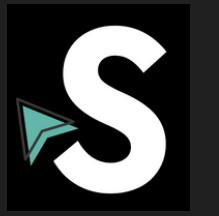


YOUTUBE LINK
<https://youtu.be/l9tx6Ql0OUA>



Github link

<https://github.com/htmw/2024S-Kodak>



Thank You!

Do you have any questions?

