LLM-Powered Distributed Pipeline for Intelligent Job Matching

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TEAM INTRODUCTION

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JOB MARKET

1. The job market is more competitive than ever.

2. Building a personalized application for jobs that match helps, but takes time and effort.

3. Instead of spending time on a personalized application, applicants are busy decoding lengthy job descriptions to find out if they are even worth their time.

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Applicants for this job

2,018 Applicants
116 Applicants in the past day

Applicant seniority level

50% Senior level applicants

30% Entry level applicants

8% Director level applicants

7% Manager level applicants

Applicant education level

25% have a Master of Business Administration
19% have a Bachelor's Degree
17% have a Bachelor of Science
39% have other degrees

CHALLENGE 1 & SOLUTION

Challenge : Job filters rely on basic keyword matching, making search slow and inefficient.

Solution : Use LLMs for meaning-based job matching.

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CHALLENGE 2 & SOLUTION

Challenge : Information overload in job postings slows decision-making.

Solution : Use LLMs to create standardized job summaries and scores to filter out mismatches fast.

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DEMO VIDEO:

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TECHNICAL APPROACH - Overview

Web Application (Link)

Tech Stack:

- Svelte + Firebase
- OAuth2 Authentication

Core Features:

- Resume Management
- Assessment Analytics
- Admin Usage Tracking

Backend

Tech Stack:

- Firebase Cloud Functions
- Firestore Database
- LLM API Integration

Core Features:

- RAG Processing Pipeline
- PUB/SUB Distribution
- Firestore State Management

Chrome-Extension (Link)

Tech Stack:

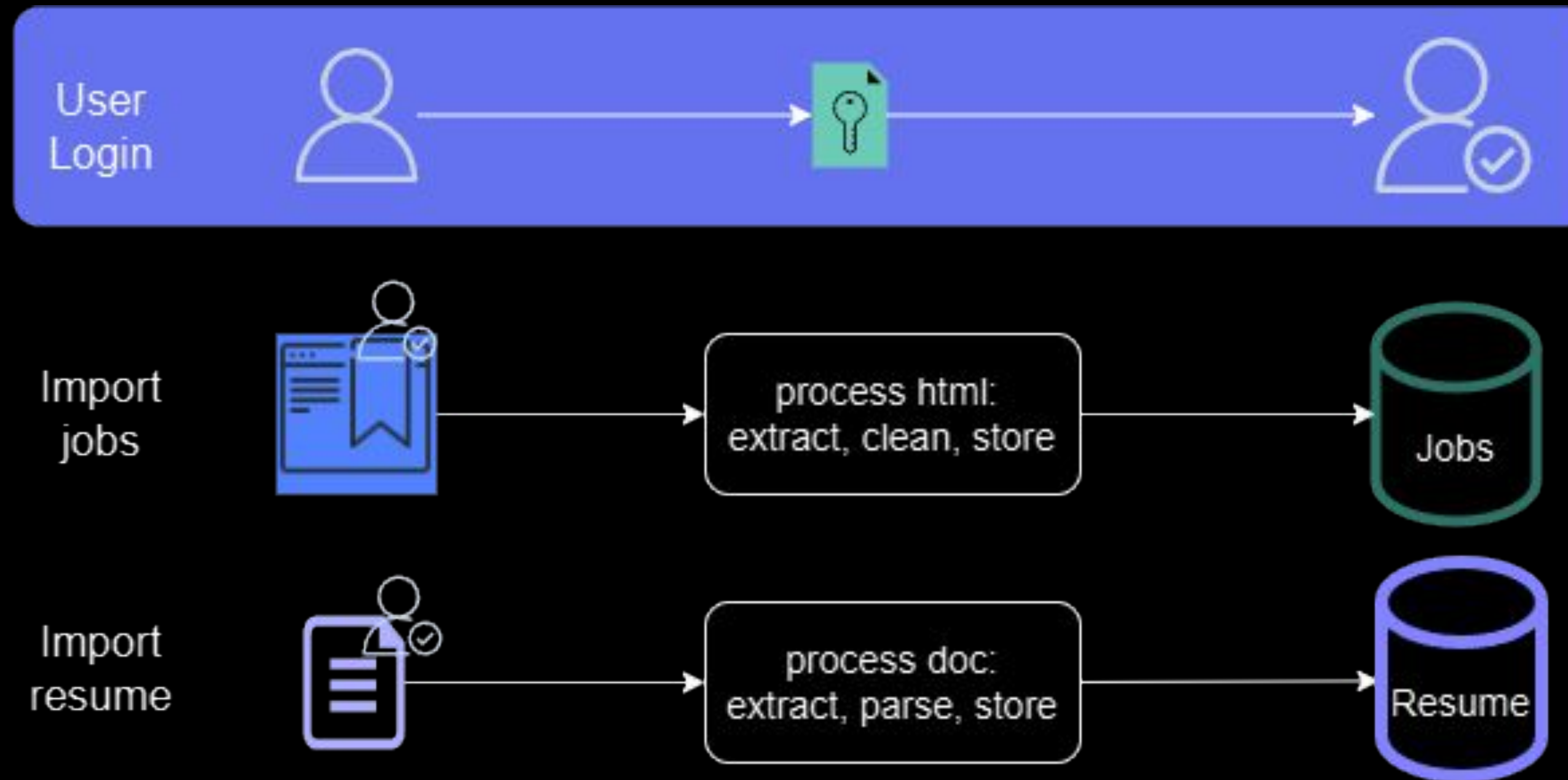- Vanilla JS + HTML
- OAuth2 Integration

Core Features:

- Job Description Scanner
- Web App Library Access

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TECHNICAL APPROACH - Onboarding

User Login

Import jobs → process html: extract, clean, store → Jobs

Import resume → process doc: extract, parse, store → Resume

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TECHNICAL APPROACH - Job match analysis
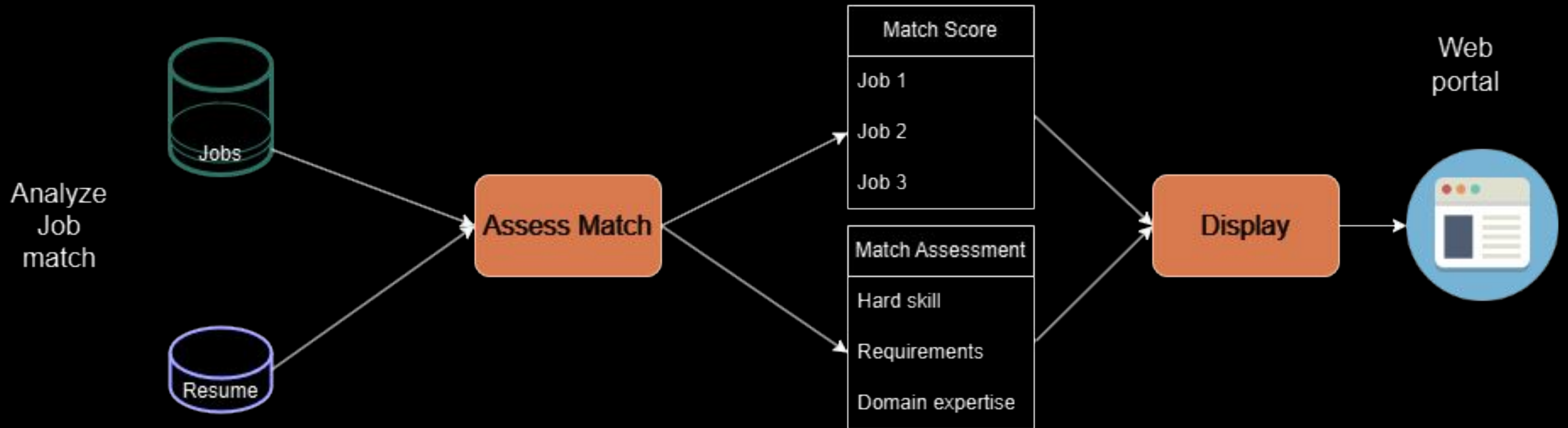
TECHNICAL APPROACH - Match Assessment Pipeline

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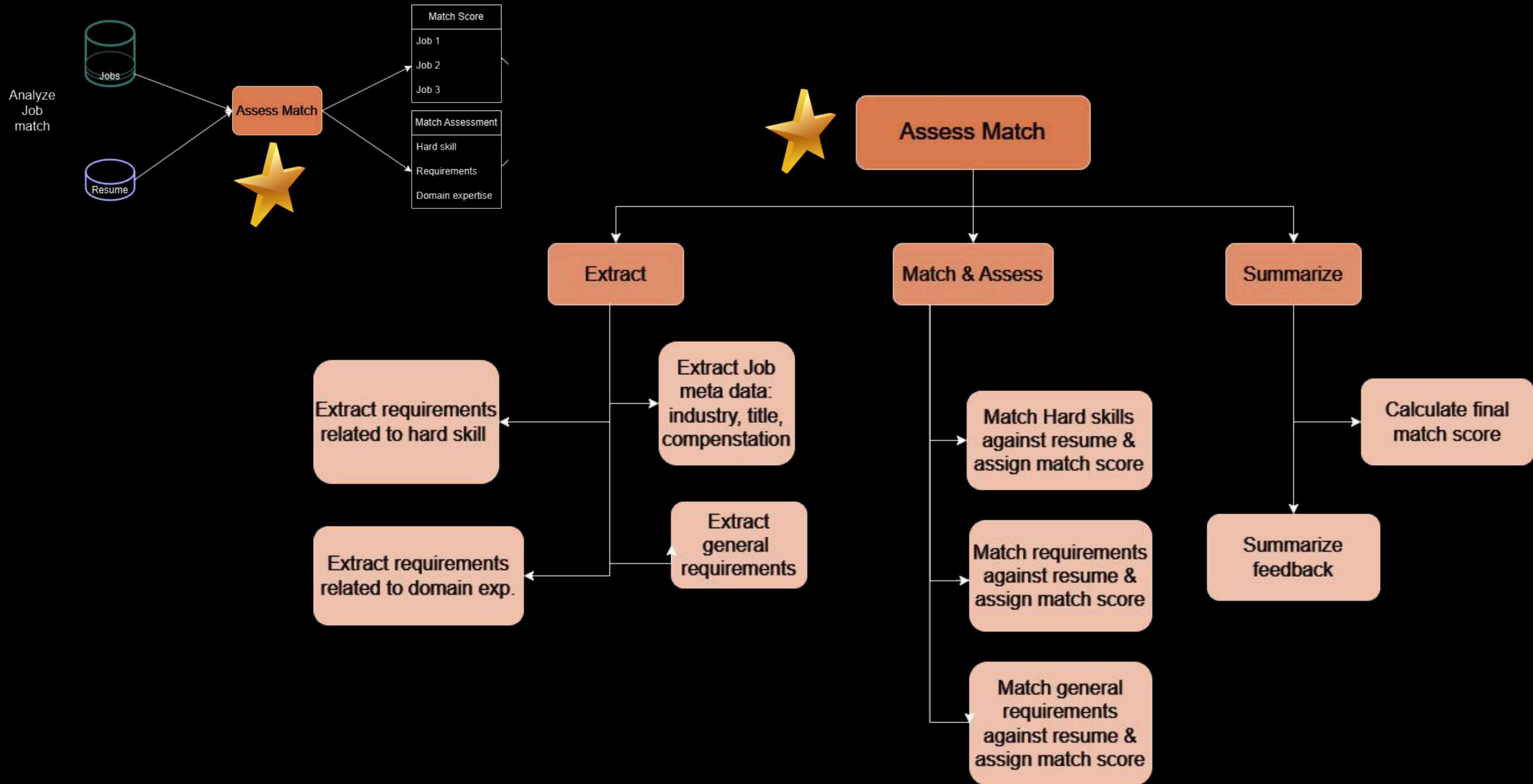
ROADMAP: Next sprints

Long term resume insights

1. Create meta-analysis based on multiple job matches
2. Find common weaknesses and strengths in resume
3. Suggest improvements and offer quantitative guidance

User request: ★ ★ ★ ★ ★

Automated job matching

- Fetch jobs through APIs directly, instead of manually through Chrome-Extension
- Summarize best-finds in a daily personalized message in your inbox.

User request: ★ ★ ★ ★ ★

Add "soft matching"

- Add customizable and highly flexible preferences of applicants.
- Match based on company culture, work ethics, or anything else.

User request: ★ ★ ★

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THANK YOU!

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