Hirenest
SMART HIRING SIMPLIFIED

Bachelor of Computer Application

Submitted by

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About The Project

Maazster Tech Next –GentX private Limited

Has selected our team to develop **"Hirenest,"**
an advanced Talent Cloud Technology platform designed to transform how organizations discover, engage, and manage global tatalent
This innovative solution leverages cloud-native architecture to create a dynamic, scalable ecosystem that connects businesses with top professionals worldwide.

- **Our team is responsible for building the core cloud infrastructure, ensuring enterprise-grade security, and implementing the platform's smart matching capabilities. The solution will feature multi-cloud compatibility, enabling seamless deployment across various cloud providers while maintaining data sovereignty compliance.**

- **This project represents Maazster Tech's commitment to pioneering the future of talent acquisition through cutting-edge cloud technology. By creating a unified talent cloud, we aim to eliminate geographical barriers in hiring while providing organizations with instant access to verified, qualified professionals on demand.**
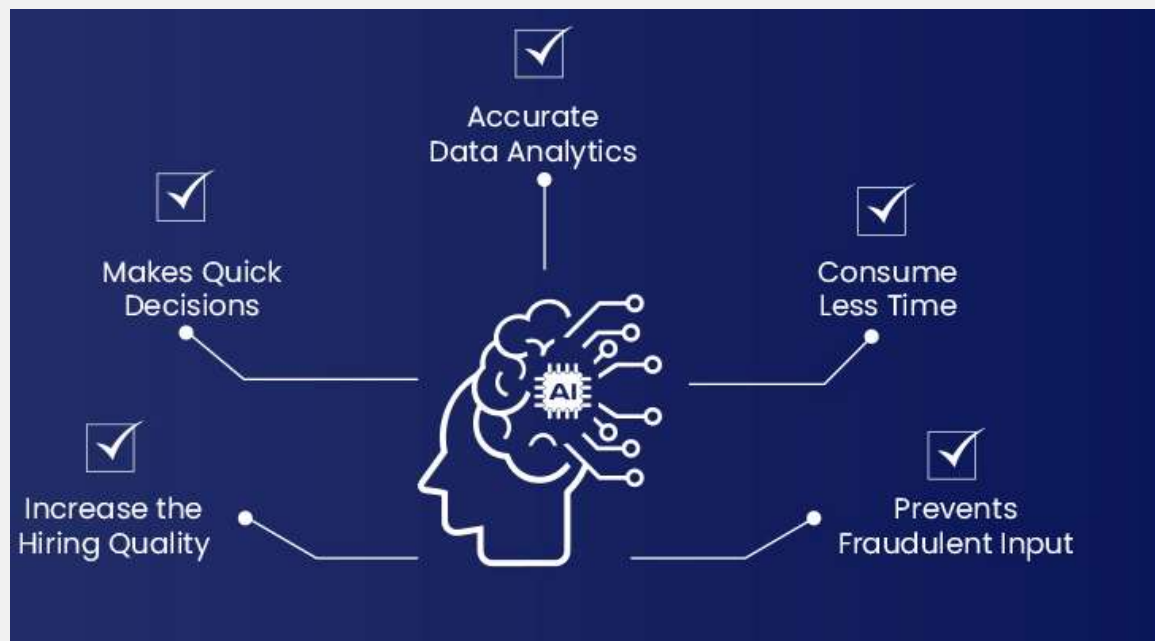
Project Overview

Hirenest

"Hire Smarter, Not Harder with AI-Driven Talent Cloud"

*"Hirenest by Maazster Tech is an **AI-powered Talent Cloud** that transforms hiring by automating 80% of manual tasks—from **smart resume screening** to **bias-free candidate matching**. Designed for agile teams, our platform slashes hiring time by 60% while connecting you with **pre-vetted, global talent** instantly.*

About The Talent Base Cloud Technology

Talent Base Cloud Technology refers to cloud-based platforms or solutions designed to manage, recruit, train, and optimize human talent using AI, data analytics, and automation. It streamlines HR processes by leveraging cloud infrastructure for scalability, accessibility, and real-time collaboration.
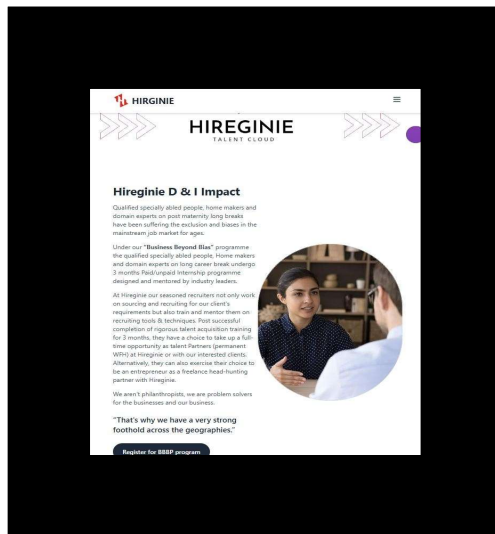
Objective

The objective of this project is to develop a digital services platform that provides a wide range of online services, including e-governance, digital payments, cloud storage, and customer support solutions. The project aims to bridge the digital divide by offering seamless, secure, and user-friendly digital solutions to individuals and businesses

Purpose of Research and Objectives (possibly in bullet points)

The scope of the project extends to ensuring high levels of cybersecurity, incorporating AI driven automation for improved efficiency, and integrating cloud-based solutions for enhanced scalability. The platform will also include multilingual support to cater to diverse user groups, ensuring inclusivity and accessibility for all

Project Schedule Plan

1. **Requirement Analysis (Week 1) – Gathering business and technical requirements, conducting feasibility studies, and identifying user needs.**

2. **System Design & Planning (Week 2-3) – Creating wireframes, system architecture, and workflow designs, selecting appropriate technologies.**

3. **Development Phase (Week 4-6) – Coding, integrating third-party services, and implementing core functionalities.**

4. **Testing & Debugging (Week 7-9) – Conducting unit testing, security audits, and performance optimization.**

5. **Deployment & Implementation (Week 10-12) – Launching the platform, setting up servers, and configuring database management**

Hireginie
Gantt Chart

PROCESS	QUARTER 1				QUARTER 2				QUARTER 3			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Planning and Requirement Analysis	▆											
Defining Requirements		▆										
Designing Architecture		▆										
Front-end development		▆	▆	▆								
Back-end development		▆	▆	▆	▆							
Deployment					▆							

System Architecture

Resources (Hardware & Software) to be Used

Hardware

Servers, networking devices, cloud storage systems, high-performance computing hardware, firewalls, biometric authentication devices.

Software

React.js, Tailwind CSS, React modules, Git, GitHub, version control systems, Node.js, database systems (MySQL, PostgreSQL).

Testing

Jest, React Testing Library, Selenium, Chrome DevTools, React Developer Tools.

Deployment

Vercel, Netlify, GitHub Pages, AWS, Google Cloud, Azure, CI/CD pipelines

Key Features

AI-Powered Talent Matching

1

•**Smart Candidate-Job Alignment**: Uses ML algorithms to match skills, experience, and cultural fit.

•**Predictive Hiring**: Recommends top candidates based on historical hiring success data.
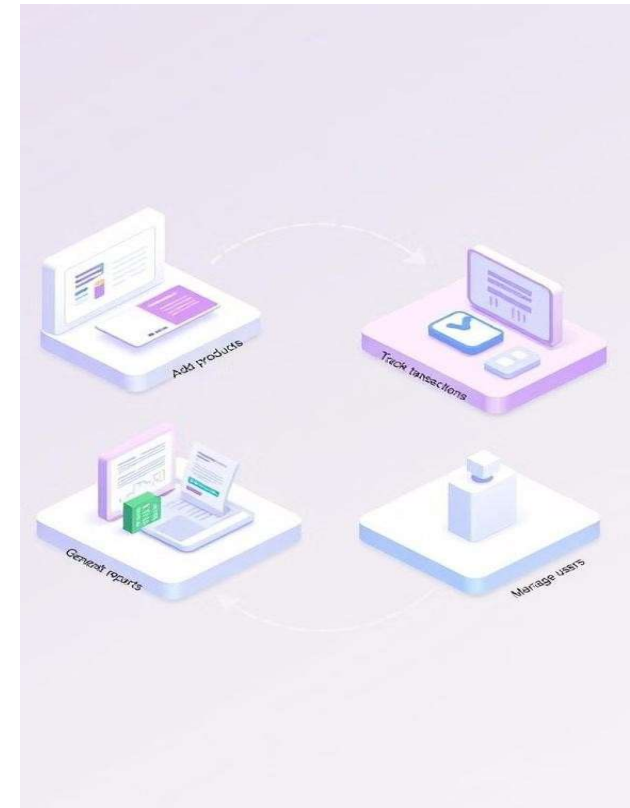
Global Talent Pooling

2

•**Unified Talent Cloud**: Aggregates profiles from LinkedIn, GitHub, portfolios, and other platforms.

•**Real-Time Availability Tracking**: Shows which candidates are actively seeking opportunities.

Automated Workflows

3

•**One-Click Sourcing**: Auto-generates candidate shortlists for open roles.

•**Interview Scheduling**: Syncs with calendars (Google, Outlook) to automate interview coordination.
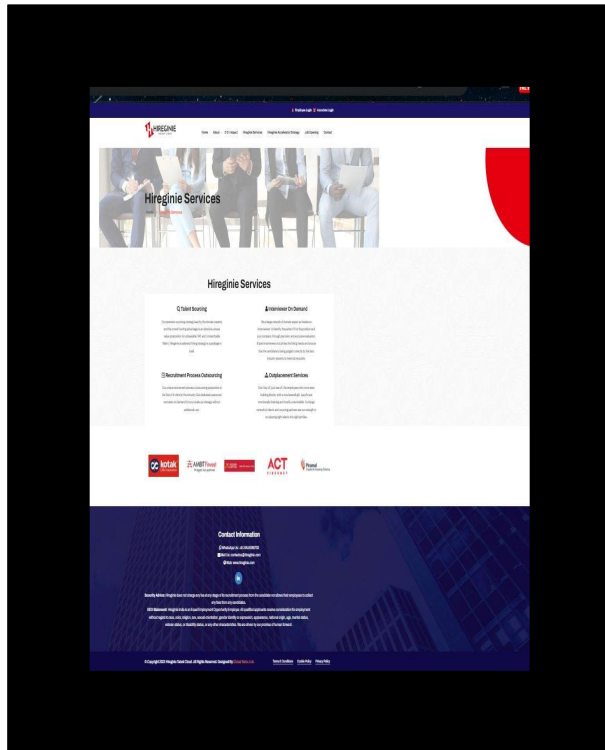
Skills Verification & Trust System

4

•**Blockchain-Backed Credentials**: Validates certifications, work history, and education.

•**Peer Endorsements**: Crowdsourced skill verification from colleagues/managers.

Cloud-Native Architecture

5

•**Multi-Cloud Deployment**: Runs on AWS, Azure, or GCP with data sovereignty compliance.

•**API-First Ecosystem**: Integrates with HRIS (Workday, BambooHR), ATS, and payroll systems.

Benefits of the System

1

🚀 **70% Faster Hiring**

•AI matching and automated workflows reduce time-to-hire from weeks to days

2

🤝 **Collaborative Hiring**

•Streamline team feedback and approvals in one unified platform

3

📈 **Career Growth Insights**

•Receive personalized skill development recommendations based on market demand

4

🛠️ **Future-Proof Technology**

•Cloud-native architecture allows easy addition of new features like video interviewing

Design of Application

The design phase of Hirenest is crucial for establishing the website's architecture, database structure, and user interface. In this phase, we focus on creating a blueprint that ensures the scalability, efficiency, and maintainability of Hirenest.

System Architecture: Defines how the different modules of Hirenest interact with each other and with external users. It ensures a smooth flow of data between clients, candidates, and recruiters.
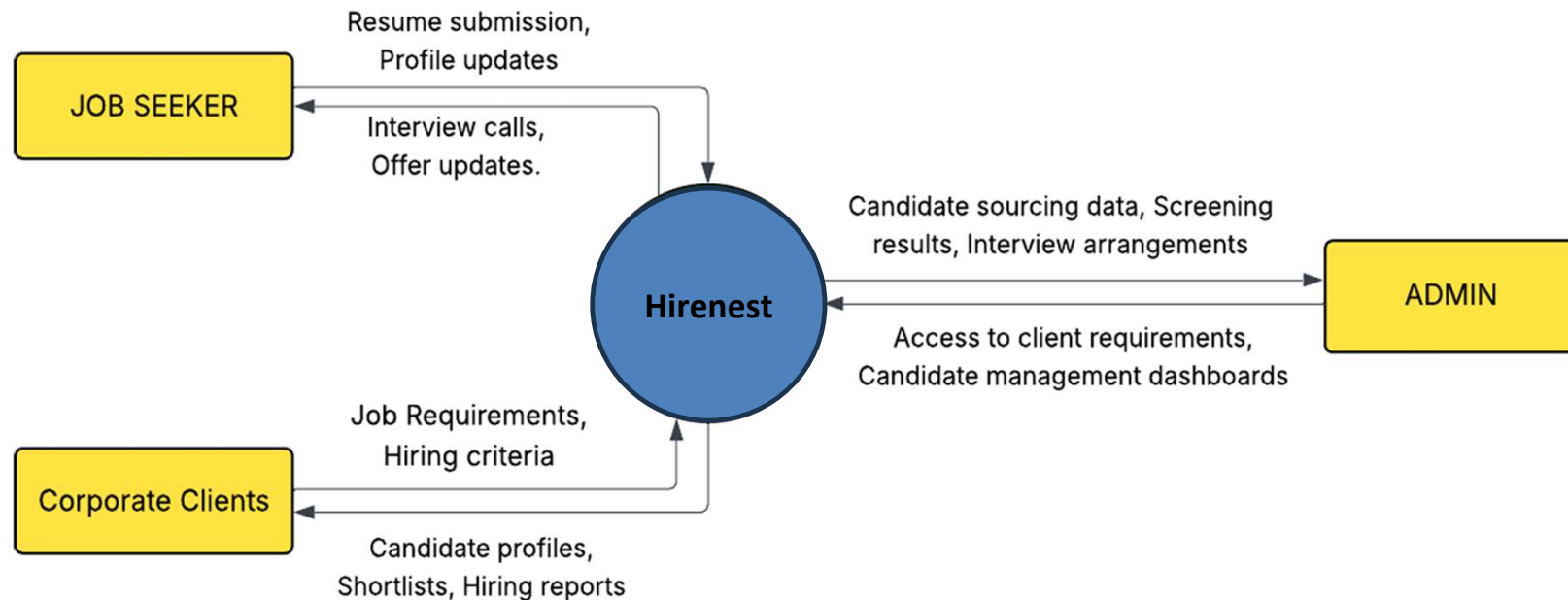
Database Structure: Outlines the organization of data within the database, including collections or tables such as Clients, Candidates, Jobs, Applications, and Interviews. Proper relationships are established among these collections for efficient data retrieval and management.

• **User Interface (UI):** Designs a clean, intuitive, and responsive interface to enhance the experience for all users — clients posting jobs, recruiters managing hiring, and candidates applying for positions.
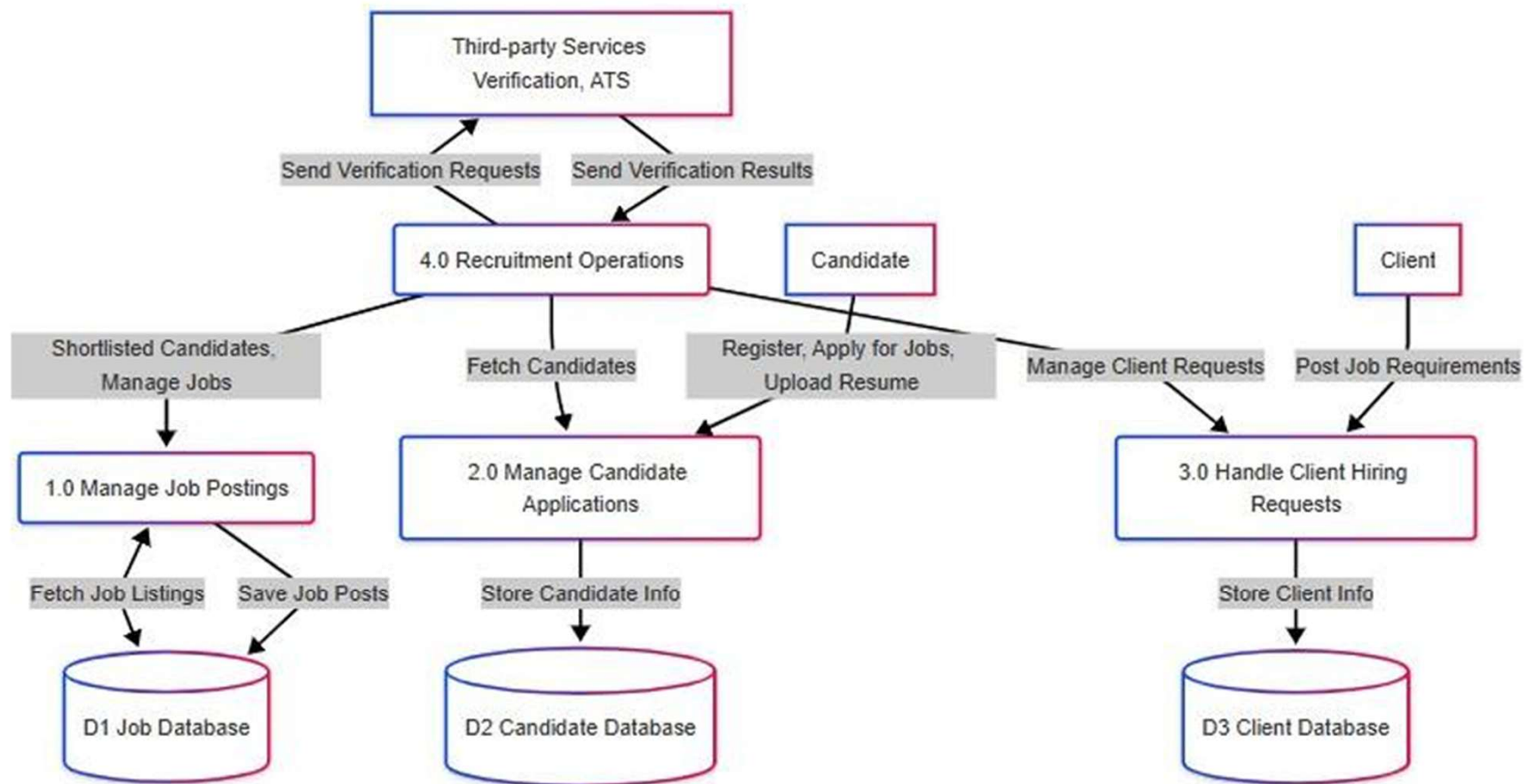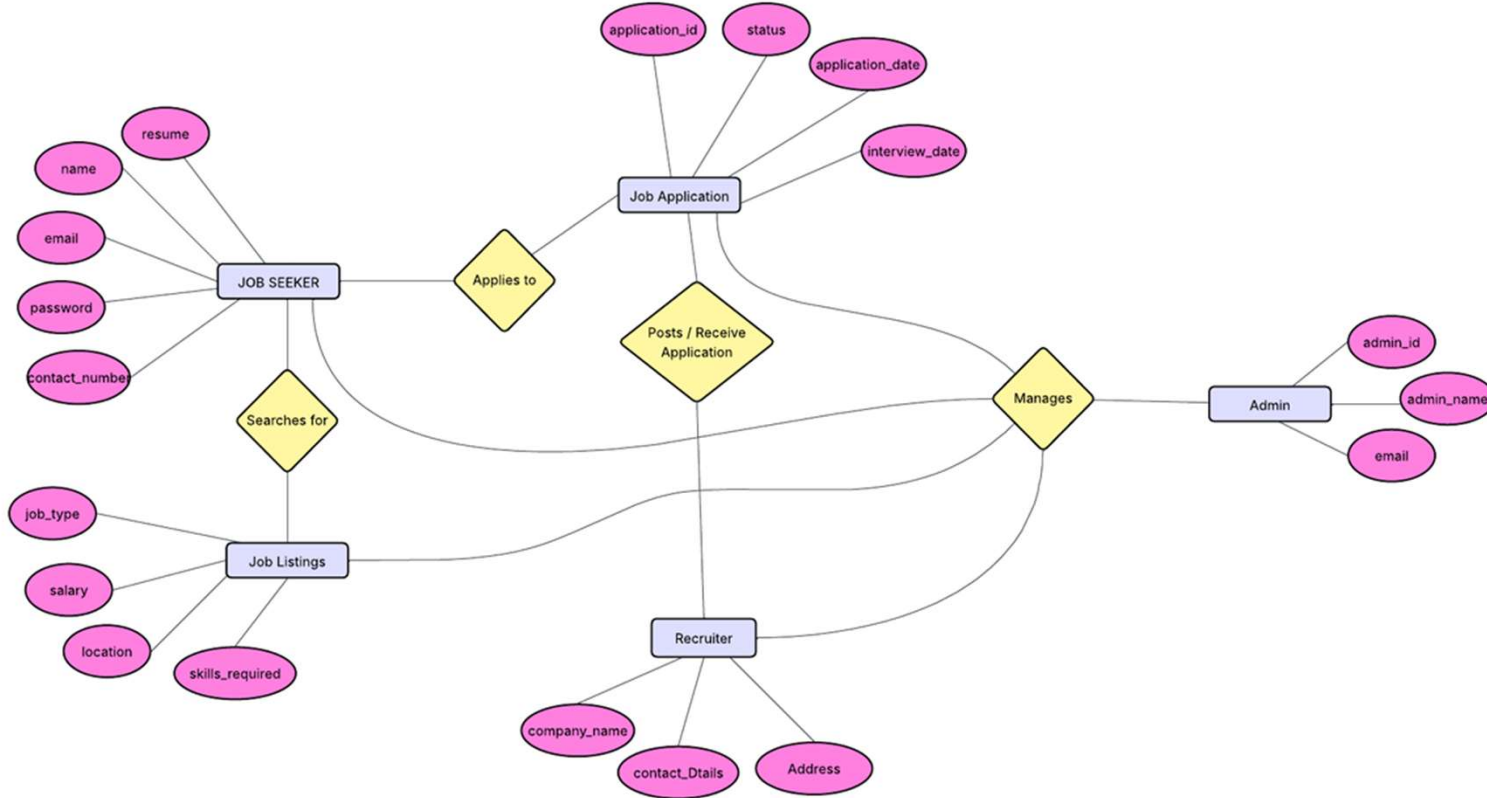
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CONTEXT DIAGRAM

A Context Diagram is a top-level visual representation that shows the system as a single process and its interaction with external entities. It defines the boundary of the system clearly, focusing only on inputs and outputs.
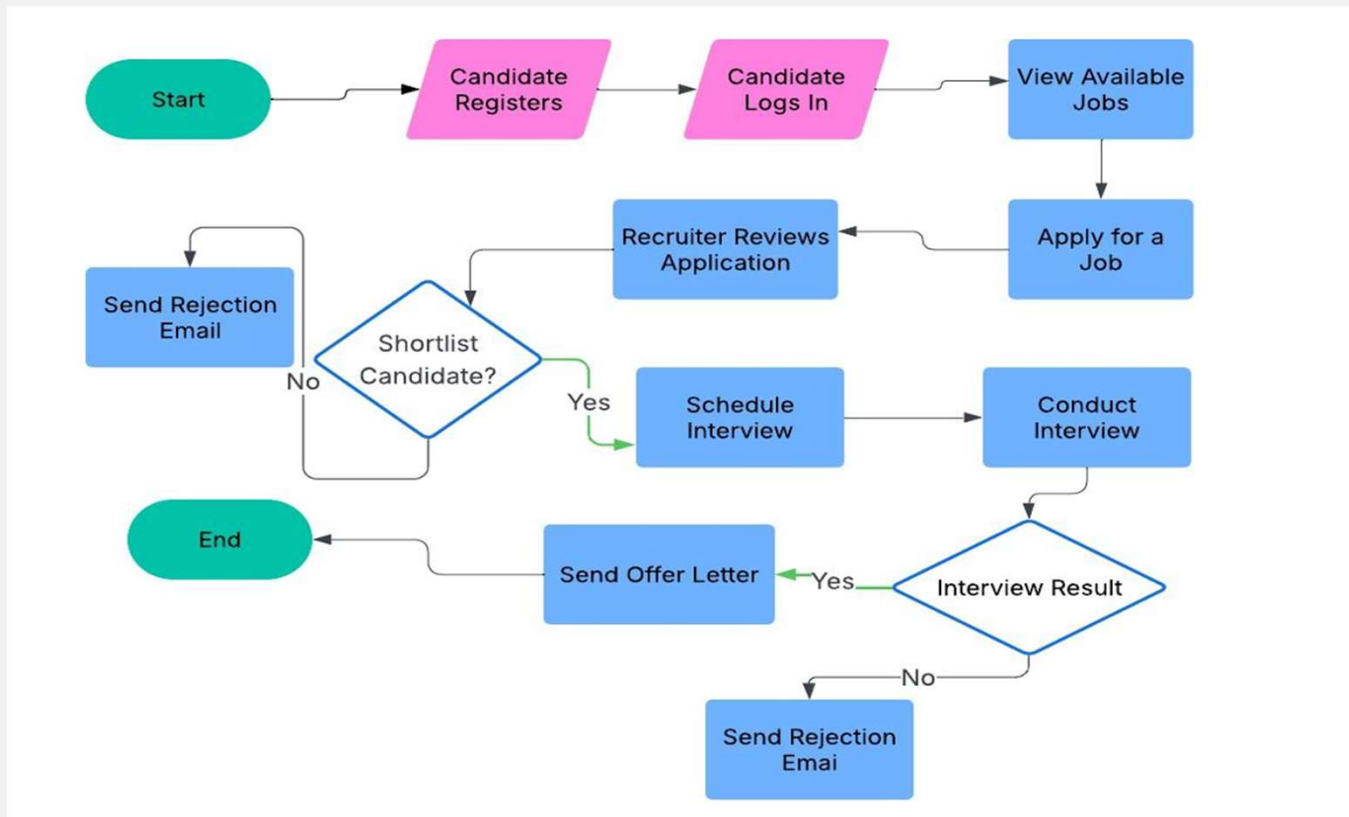
DATA FLOW DIAGRAM

ER Diagram

FLOW CHART

A flowchart is a visual diagram that shows the step-by-step flow of a process or system. It uses different shapes like rectangles (processes), diamonds (decisions), ovals (start/end) connected by arrows to represent the sequence of actions. Flowcharts help in easily understanding, analyzing, and communicating how a task or system works. They are widely used in planning, designing, and troubleshooting processes in various fields.

Contribution to Future Knowledge/ Conclusion

 The platform leverages cutting-edge web technologies such as **React.js**, **Tailwind CSS**, and **AI-driven matching systems** to deliver a seamless and efficient experience. With a strong emphasis on **data security** and **user privacy**, it ensures a trustworthy environment for both individuals and businesses. Looking ahead, the platform aims to expand its capabilities by integrating **AI-based career recommendations**, **blockchain for secure document verification**, and **real-time analytics** to enhance hiring strategies. This forward-thinking approach solidifies its position as a reliable and user-friendly solution for future needs

Conclusion

Hirenest by Maazster Tech Next GentX Private Limited revolutionizes hiring through AI-powered Talent Cloud Technology, enabling faster, smarter recruitment for businesses while giving professionals fairer opportunities—all on a secure, scalable platform that's shaping the future of work.