# AI for Agent Recruiting Design Document



Name: Kerry Agabi.

# Student Number: C00249804.

Supervisor: Greg Doyle.

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# Table of Contents

Table of Contents	2
Abstract:	3
Introduction:	3
Features:	3
User Flow:	4
Technical Requirements:	4
Entity Relationship	5
Sequence Diagrams	6
Web Application Design	16
Technologies	27
Conclusion:	28

#### Abstract:

This design document describes the model of the web application. This Document will describe exactly how the web application will be used, referencing diagrams such as Entity Relationships and a high-level design diagram to portray how the web application functionality will be accessed such as a sequence diagram.

#### Introduction:

The Job Recruitment Web Application is a platform for job seekers and employers to connect. Job seekers can create and update a dashboard, and search and apply for jobs, while recruiters can post, view, update, and delete job listings, manage job applications, and predict employee attrition. The application will be developed using ReactJS, a JavaScript library for building user interfaces, and Python using the Flask web framework.

This design document outlines the proposed design for a job recruitment web application using React framework.

The application will have a user-friendly interface with easy navigation, and responsive design and will be optimized for both desktop and mobile devices.

The application will be built using the latest web technologies, such as HTML, CSS, JavaScript, and React framework. The goal of this project is to create an efficient and easy-to-use platform for job seekers and employers to connect while providing a seamless and responsive experience.

#### Features:

- Job seeker profile creation.
- Job search and application.
- Recruiter has access to CRUD job listing.
- User authentication and authorization.

User Flow:

- 1. Job seekers will first create or update a dashboard, including their resume and personal information.
- 2. Job seekers can then search for job listings, filter by location and job title, and apply to jobs.
- 3. Employers can post job listings, including job titles, locations, and description.
- 4. Employers manage job applications.
- 5. Users will have the ability to log in and log out of the application.
- 6. Recruiter can manage the application, including reviewing job listings and user profiles.

Technical Requirements:

- ReactJS for front-end development.
- Python and Flask or Django for back-end development.
- Firebase for database management.
- Firebase for user authentication.
- Machine Learning.

# **Entity Relationship**



Figure 1: Architecture of the front-end application.



Figure 2: Architecture of the churn model.

# Sequence Diagrams



Figure 3: Sign-Up Sequence Diagram



Figure 4: Login Sequence Diagram

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7 : Changes Credentials	
	8 : POST(email, authenticationID)
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Figure 5: Update Profile Sequence Diagram



Figure 6: Logout Sequence Diagram





Figure 8:	View .	Job	Listina	Sequence	Diagram
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Figure 8: Advertise Job Listing Sequence Diagram

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#### Figure 9: View Job applications

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Figure 10: Predict Churn

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RED UNREGIS	4 : Filter job listing information	FERED UNREGIST		REGIST		UNRE
RED UNREGIS	STERED UNREGIST	TERED UN REGIST		REGIST		UNRE
RED UNREGIS	STERED UNREGIST	FERED UNREGIST		REGIST		UNR
RELIUNREGIS	5 : Displays Job listing information	ERED UNREGIST		REGIST		UNR
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Figure 11: Update Job Listing

Figure 13: Update Login

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Figure 12: Delete Job

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	RED UNREGIS		ERED UNREGIST	Get( lob t isting)	REGIST		UNRE
	RED UNREGIS	TERED UNREGIST	ERED UNREGIST	ERED UA	REGIST		UNRE
	REL UNREGIS	3 : Displays Job listing information	ERED UNREGIST		IREŲIST		UNRE
	REDUNREGIS	4 : Filter job listing information	ERED UNREGIST		IREGIST		UNRE
	ED UNREGIS	TERED UNREGIST	ERED UN LEGIST		REGIST		UNRE
	RED UNREGIS	TERED UNREGIST	ERED UNREGIST		IREGIST		UNRE
	RELIUNREGIS	5 : Displays Job listing information	ERED UNREGIST		IREGIST		UNRE
	RED UNREGIS	6 : Clicks Delete Job	ERED UNREGIST		REGIST		UNRE
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		TERED UNREGIST	ERED UNREGIST		REGIST		UNRE
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# Web Application Design



Figure 14:: Homepage

This is the main homepage for users. They can click on either role of a Job seeker or Recruiter and will be directed to the login page. There is also a sign-up for new users to create an account.

R.A 💄	Home	Jobs	Resources	Dashboard		Sign Up
					Sign Up	
					Email	
					Password	
					Password Confirmation	
					Sign Up	
					I have an account. Login instead.	

Figure 15: Sign Up Page.

This is the signup page, where users can enter their credentials to create a new user.

R.A 💄	Home	Jobs	Resources	Dashboard		Sign Up	
					Log in		
					Email		
					Password		
					Log in		
					Forgot Password?		
					Not Registered? Create account		

Figure 16: Login page.

This is the Login page, where users can enter their email and password from their previously created account to log in

R.A 💄	Home	Jobs	Resources	Dashboard				Logout	
						Update Dashboard	a de la companya de l		
						tech	Email: t300@gmail.com		
						Profile Photo			
							ກ່າງກັບ		
						Upload Profile Ph Choose file	noto No file chosen		
						Upload			
					Personal D	etails			
					First N	ime:	Last Name:		
					Terry		St Patrick		
					Email:		Phone:		
					techt	800@gmail.com	0866753632		
					Addres	5:			
					746 1	ullow Street, Louth			
					Sav	Ð			
						Career Information	1		

Figure 17: Update Dashboard Page. This is a dashboard where users can update their credentials or log out of their session.

R.A 💄	Home	Jobs	Resources	Dashboard		Logout	
					Filter by Job Title or Company Name Filter by Skills Filter by Contract Select Location Filter by Work-site Clear Filters Found 24 job listings available.		
			Civil and Stru 21/04/2023 Fxed ferm On https://www.drac View Details Microsoft Power B	ictural Engineer - D site Domost consulting.ie/ Apply Now	RA Consulting Engineers	ארס	
			Fitness Train 2004/2023 PartTime On-s https://westwoor View Details CrossFit Group	er - West Wood te Dusin <u>1 te/</u> Apply Now Fitness instruction Fitnes	Programming and Planning	997 2010	

Figure 18: Employee Section Page.

This is the Jobs section where job seekers can view, search, filter through, and apply for the available jobs listed.

R.A 💄	Home	Jobs	Resources	Dashboard			Logout		
					Jobseek View Matchin View Your Jot Update D Roset P Update Logi	cer Menu ng Job Listing th Applications Jashboard Nasword in credentials			
					Contact	Socials Instagram © Linkedin 🖬 Github <b>Q</b>			

Figure 19: Job Seeker Menu

This is the job seekers menu for a user to navigate through the different functionality of the web applications.

R.A 💄	Home	Jobs	Resources	Dashboard	Logout
					Recruiter Menu Advertise a Job Vew Job Applications Predict Cham Update a Job Listing Delete a Job Listing

Figure 20: Recruiter Menu

This is the Recruiter menu for a user to navigate through the different functionality of the web applications.



Figure 21: View Application page

This is a page where the recruiter can view the job application for a particular job listing.

R.A 💄 Home Jobs Resources Dashboard		Logout
	Employee Attrition Pred	ediction
	Age:	
	Daily Rate:	
	Distance From Home:	
	Education:	
	Environment Satisfaction:	
	Hourly Rate:	
	Job Involvement:	
	Job Level:	
	Job Satisfaction:	
	Monthly Income:	
	Monthly Rate:	
	Number of Companies Worked:	

#### Figure 22: Predict Churn page

This is the page where a recruiter can predict employee attrition.

R.A 💄	Home	Jobs	Resources	Dashboard		Logout	
					Filter by Job Title or Company Name Filter by Skills Filter by Contract Select Location Filter by Work-site Clear Filters		
			Civil and Stru 21/04/2023 Fixed-term On https://www.dtrai Vrew Details Detete Job Microsott Power B	uctural Engineer - Di see Dengal consulting let	A Consulting Engineers	D7A	
			Fitness Train 20/04/2023 Part-Time On-s https://westwoo	ter - West Wood ster Dublin die/		γιαν ναιακά ειαιακά	

Figure 23:Delete Job page

This is a page where the recruiter can delete a job listing.

R.A A Home Jobs Resources Dashboard	
	Advertise with us 🎒
	Company Name
	Company Name
	Company Logo
	Choose file No file chosen
	Contract
	Select Contract ~
	Work-site
	Select Work-site v
	Job description
	Job Description
	Enter a date:
	dd/mm/yyyy
	Job title
	Job title
	Location
	Select Location v
	Skills
	Filter by Skills
	Enter Job Application link
	http://example.com

Figure 24 : Advertise

This is a page where the recruiter can create a job listing.

R.A 💄 Hon	ie Jobs	Resources	Dashboard		Logout		
				Filter by Job Title or Company Name			
				Filter by Skills			
				Filter by Contract			
				Select Location			
				Filter by Work-site			
				Clear Filters			
				Found 20 job listings available.			
		Civil and Stru 21/04/2023 Fixed-Term Dor https://www.drac View Details Microsoft Power B	uctural Engineer - DF read onsulting.ie/ Update Job	A Consulting Engineers		DRA	
		Fitness Train 20/04/2023 Part-Time Dubl https://westwood	er - West Wood n <u>ie</u> Update Job	Yogramming and Planning		HH -	
		Group	Fitness	rogramming and Panning			

Figure 25: Update Job

This is a page where the recruiter can update a job listing.

R.A 💄	Home	Jobs	Resources	Dashboard		Logout	
					Filter by Job Title or Company Name		
					Filter by Skills		
					Filter by Contract		
					Select Location		
					Filter by Work-site		
					Clear Filters		
					Found 20 job listings available.		
			Part-Time On- https://westwoo View Details CrossFit Grou	site Dublin Id.ie/ Apply Now p Fitness instruction Fitnes	sProgramming and Planning		
			Software En 01/03/2023 Part-Time On- https://www.you	gineer - Youtube site (Limerick) itube.com/jobs/engineerin	a/	Onde	
			Programming	Web development Cloud co	npuling) Devides Aglie) (averScript) (HTML) (CSS) (Database Management)		

Figure 26:View Matching Job

This is a page where the job seeker can view the job listing that matches their career information.

R.A 💄 Home Jobs F	Resources Dashboard Logout	
	Your Job Applications	
	Principal Software Engineer at Tiktok	
	5	
	Email:	
	techt300@gmail.com	
	Name:	
	Tariq St Patrick	
	Cover Note:	
	Dear Hiring Manager, I am writing to express my interest in the Application Developer Manager position at your company. With a passion for technology and a track record of success in software developer. I have honed my skills in programming languages such as Java, Python and C#. Additionally. I have experience dive development and team management, I am excited about the opportunity to bring my skills. Involved membrang languages such as Java, Python and C#. Additionally. I have experience in twe development and mobile application development. My expertise in software development has allowed me to lead successful projects that have met the needs of clients while staying within budget and deadline constraints. Furthermore, I have experience in team management and have led teams of developers to success by fostering a collaborative environment and setting clear goals and expectations. I am confident in my ability to mentor, guide, and motivate developers to achieve their best work. As an Application Developer Manager, I and riven to create innovative and efficient software solutions that meet the needs of users. I am passionate about using my skills to develop software that can positively impact society. Thank you for considering my application. I am excited about the opportunity to contribute to your organization's success as an Application Developer Manager. Sincerely, Taing	
	CV File:	
	Download CV	
	Application Developer at Teagasc	
	Cestasc	
	Email:	
	techt300@omail.com	

Figure 27: View Job Applications

This is a page where job seekers can view their job applications for job listings that they applied for.

R.A 💄	Home	Jobs	Resources	Dashboard		Logout
					Password Reset	
					Email	
					Reset Password	
					Login	
					Not Registered? Create account	

Figure 28: Reset Password

This is a page where users can reset their password.

R.A	Но	ne Job	s Resourc	es Dashboard		Logout
					Update Profile	
					Email	
					techt300@gmail.com	
					Current Password	
						•
					New Password	
					Leave blank to keep the same	
					Password Confirmation	
					Leave blank to keep the same	
					Update	
					Cancel	

Figure 29: Reset Password

This is a page where users can update their login credentials.



Figure 30: Dashboard

This is a page where users can view their profile/dashboard information

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### Technologies

These are the current technologies being used for the architectural components of this web application





Figure 32: Pythonanywhere and Flask.

#### Conclusion:

This Job Recruitment Web Application will provide a platform for job seekers and employers to connect and will be developed using ReactJS, Python, and Firebase servers. The application will have features for job seekers to create a profile and search and apply for jobs, and for employers to post, view, remove, update job listings, and predict employee attrition. The application will also have user authentication and authorization, The development will include testing, and regular updates and maintenance will be performed after deployment.