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Assignment 1

CCAS 4.3

Functional Requirements:

Requirement	Description	Justification	
RQ 1 User Registration	database must store information for users, including candidates and employers.	This is like signing up for an account so you can use the job board.	**Must Have**
RQ 2 -Job Listings	Detailed job listings including job titles, descriptions, locations, and requirements should be stored in the database.	This is where companies post their job openings for people to see.	Must Have
RQ3 Job Applications	Job applications, including with resumes, job IDs, and application statuses, must be tracked by the database.	This is how you apply for a job by sending in your resume	Must Have
RQ4 Company Profiles	The database must store company profiles with relevant company details such as name, industry, and contact info	This is where companies tell you about themselves, like what they do and who they are.	Should Have
RQ 5 User Authentication	The database must store authentication details for secure user logins (email, password).	This is like a lock on your account to keep it safe	Must Have
RQ 6 Search Functionality	The database must support job search queries based on job titles, skills, and locations.	This is like a search bar where you can find jobs that match what you're looking for.	Must Have
RQ 7 Resume Management	Job seekers must be able to upload, store, and manage their resumes.	This is where you can upload and store your resume for applying to jobs**.**	Should Have
RQ 8 User Activity Log	The database must log user activity for auditing	This is like a diary that keeps track of	Could Have

	and troubleshooting purposes.	what you do on the job board.	
RQ 9 Employer Reviews	The system may allow users to leave reviews and ratings for employers.	This is where people can share their experiences working for a company.	Could Have
RQ 10 Recommendations	The system may provide personalized job recommendations based on user preferences and behavior	This is like suggestions for jobs that might be a good fit for you.	Could Have
RQ 11 Data Backup and Recovery	The system should have data backup and recovery procedures in place to protect against data loss	This is like a safety net to make sure your information doesn't get lost.	Could Have
RQ 12 Security and Privacy	The system must implement strong security measures to protect user data and prevent unauthorized access	The system must implement security protocols to safeguard user data	Must Have
RQ 13 Messaging System	The system should provide a messaging system for communication between job seekers and employers	A messaging system enables direct communication between job seekers and employers, facilitating efficient interaction and information exchange.	Should Have
RQ 14 Notification System	The system should send notifications to users (e.g., job seekers, employers) about new job postings, applications, messages, and other relevant events.	**This helps users stay informed and engaged with the job search process.**	**Should Have**
RQ 15 Payment Records	The database should store records of payments made by companies for premium job postings or subscriptions	The system should accurately track and store payment records for premium features or subscriptions.	Should Have

RQ 16 Admin Management	Admins can manage user accounts (activate, deactivate, or delete accounts).	Admin management capabilities allow administrators to oversee and control the system's operations, including user account management, system configuration, and data management	Must Have
RQ 17 Interview Scheduling	Employers can schedule interviews and send interview requests. Job seekers can accept or reject interview invites.	An interview scheduling feature streamlines the process of coordinating interviews between job seekers and employers. It allows for easy scheduling, rescheduling, and cancellation of interviews.	Must Have
RQ 18 Search Functionality	A well-optimized search feature allows candidates to find relevant jobs quickly.	well-optimized search feature is essential for users to efficiently find relevant job opportunities.	Must Have
RQ 19 Skill Set Matching	The database should match candidates to job listings based on skill sets.	This improves the efficiency of the job search process and increases the likelihood of finding relevant opportunities.	Must Have
RQ 20 Job Expiration	The database must automatically mark job listings as expired after a specific period.	automatically marking job listings as expired after a specific period ensures that the job board remains current and relevant to users.	Must Have

Non-Functional Requirements

Requirement	Description	Justification
RQ 1 Security	The database must enforce encryption of sensitive user data (passwords, personal info).	Ensures data privacy and protection against unauthorized access.
RQ 2 Reliability	The system should be highly reliable and have minimal downtime	This ensures uninterrupted service and prevents data loss
RQ 3 Scalability	**The system should be able to handle increasing user loads and data volumes without significant performance.**	**The system should be able to handle increasing user loads and data volumes without significant performance fall**
RQ 4 Maintainability	The system should be easy to maintain and update	**This reduces development and maintenance costs.**
RQ 5 Performance	**The system should have a fast response time and be able to handle many concurrent users without significant performance fall**	user experience and efficient operation.