

PROJECT REPORT

JOB PORTAL

SOFTWARE ENGINEERING: SECTION 4-B

GROUP MEMBERS

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Submitted to: Mr. Muhammad Adnan

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1. Project Description:

1.1. Scope:

Job seekers and companies can easily and effectively interact with RIZQ, a cutting-edge online job platform. The Rizq Job Portal project's objective includes creating a thorough web platform with the goal of effectively matching job seekers and businesses. It has features including the ability to register users and create profiles, a powerful job search engine, an employer portal for managing applications and job postings, a safe backend database, and communication tools for easy user engagement. In order to guarantee usability for businesses and job seekers alike, the scope also includes the development of comprehensive documentation and support systems. Direct recruitment services, offline initiatives, and integrations that go beyond the specified parameters are not included in the scope. The initiative aims to prioritize data security, privacy, and regulatory compliance while offering a user-friendly platform for recruiting and job search.

1.2. Major Features:

Key Features:

- User registration: A simple online form that job seekers fill out to create an account.
- Job Search: Extensive search features make it possible for job searchers to locate relevant positions.
- Employer Portal: Employers can publish job openings and monitor the recruitment process on a dedicated employer portal.
- Database: Job Seeker Profiles and Resumes are stored in a secure backend database.
- Tools for Communication: Make it easier for companies and job seekers to communicate.
- Installation, configuration, and support instructions: This makes it simple for companies and job seekers to set up and use.
- User and Technical Support: Committed to addressing both technical and user-related problems.

Additional Features:

- Application Tracking: Job searchers can monitor the progress of their applications with Application Tracking.
- Resume management is simple for job seekers to upload and maintain.
- Management of Job Postings: Employers are able to effectively handle job postings and applications.
- Career Resources: Provide resources, advice, and articles to help job seekers advance their careers.
- Premium Features: Provide employers with premium features to improve their hiring procedures.

Benefits:

- Easy Job Search: Using their choices as a guide, job searches can quickly locate relevant positions.
- Effective Hiring: Companies can locate competent applicants quickly by streamlining their hiring procedures.
- Enhanced User Experience: The user experience is enhanced overall by features like resume management and application tracking.
- Valuable Insights: Provide companies with useful information so they may examine candidate feedback and hiring trends in order to make ongoing improvements.

2. Stakeholders List:

Stakeholder	Category	Role/Duty
Job Seekers	Primary	People who use Rizq to look for jobs, make profiles, and apply for jobs are those who are actively looking for work.
Employers	Primary	Employers and groups seeking to expand their workforce use Rizq to advertise positions, handle applications, and find applicants.
Recruitment Agencies	Secondary	Recruitment and hiring agencies that could use Rizq to find candidates for their clients.
Educational Institutes	Secondary	Universities, colleges, and technical schools that use Rizq to help their alumni and students find employment.
Investors	Supportive	People or groups with financial stakes in Rizq who are motivated to see it succeed and turn a profit.
Advertisers	Supportive	Businesses that use Rizq to market their goods or services in order to connect with employers and job seekers.
Employees	Internal	The internal group that develops, maintains, and runs Rizq; this group consists of programmers, customer service agents, marketers, and administrators.

3. Elicitation Plan & Results:

3.1. Description of Elicitation Plan:

Elicitation is the process of using different methods, such as surveys, interviews, and prototypes, to gain a thorough understanding of user needs and preferences. It involves collecting input from customers and end users and evaluating it to guide the creation and improvement of products and services. In the end, elicitation seeks to guarantee that user expectations and company goals are correlated.

The Elicitation Techniques we are using are:

- Interviews
- Surveys
- Prototyping

3.2. Interviews:

Direct conversations that are meant to comprehend viewpoints, beliefs, or experiences; frequently utilized in problem-solving or research. They are quite famous for gathering information from the Stakeholders.

3.2.1. Do you want a job posting system?

Yes, for employers to post job vacancies.

- **3.2.2.** How long should a job listing remain active on the platform? Typically, 30 days.
- **3.2.3.** How many job postings should be displayed per page? Around 10 to 20 listings per page.
- 3.2.4. What is your budget for developing and maintaining the platform?

Approximately 5 to 10 lac rupees.

- **3.2.5.** What kind of security measures do you want for user data? Secure encryption and access controls.
- 3.2.6. Who should have access to candidate information?

Employers and authorized platform administrators.

- **3.2.7.** Who has authority to edit and update job listings? Employers and platform administrators.
- **3.2.8.** Can job seekers save job listings for later viewing? Yes, with a bookmark or save feature.
- **3.2.9.** How long can a job seeker bookmark a job listing? Indefinitely until removed by the user.
- **3.2.10.** What if a job posting is filled or no longer available? It will be marked as closed or removed from listings.
- **3.2.11.** What categories of jobs are you looking to feature on the platform?

Various industries and job types based on user demand.

3.2.12. What are the preferred methods for job seekers to search for jobs?

Search by industry, location, salary, etc.

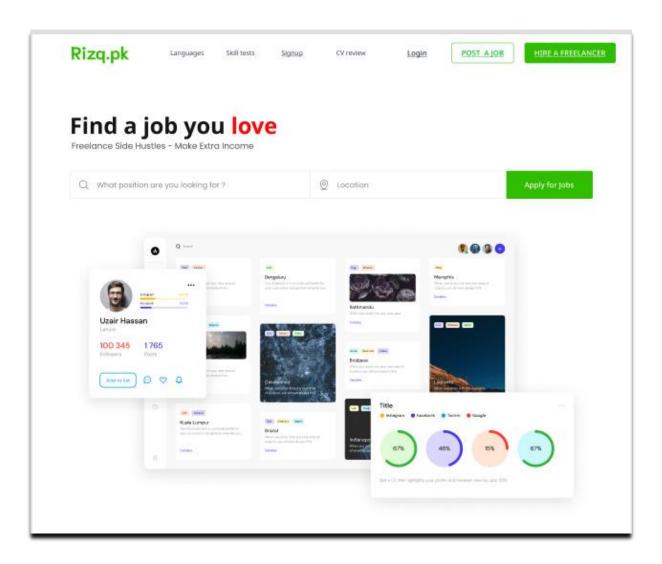
3.3. Surveys:

- **3.3.1.** What is your age?
- **3.3.2.** What is your gender identity?
- **3.3.3.** What is your educational background?
- **3.3.4.** What is your employment status?
- **3.3.5.** What is your geographic location?
- **3.3.6.** How frequently do you use job portals to search for employment opportunities?
- **3.3.7.** Which job portals do you currently use, if any?
- **3.3.8.** How satisfied are you with the usability and design of the job portals you use?
- **3.3.9.** What features do you find most useful in a job portal?
- **3.3.10.** How likely are you to recommend the job portals you use to others? What challenges do you encounter when using job portals for job search?
- **3.3.11.** What additional features or improvements would you like to see in job portals?
- **3.3.12.** How important are factors such as job relevance, location, salary, and company reputation when considering job listings?
- **3.3.13.** What types of job listings are you most interested in (e.g., full-time, part-time, remote, freelance)?
- **3.3.14.** Do you encounter any accessibility barriers when using job portals? If so, please specify.
- **3.3.15.** How important is it for job portals to be inclusive of diverse backgrounds, identities, and abilities?
- **3.3.16.** Are there any specific accommodations or features that would make job portals more accessible and inclusive for you?
- **3.3.17.** Do you have any additional comments, suggestions, or feedback regarding job portals that you would like to share?
- **3.3.18.** Is there anything else you would like to see addressed in future updates or developments of job portals?

3.4. Prototypes

Why we use Prototype Technique?

Prototyping in Software Engineering is a technique where an initial, simplified version of the system (a prototype) is built to understand requirements, demonstrate concepts, and validate design choices. This iterative process allows for user feedback and refinements before final development.



Rizq Top Employers Are!































How We Do?



STEP 1: COMPLETE PROFILE

Once you are approved, we sherry server to leading Station technology Garbigs.



STEP 2: RECEIVE JOB OFFERS

Companies start searling insomites requests.
Talk is any like eries you like.



STEP 3: ACCEPT DREAM JOB

Company your offers and accepance best are.

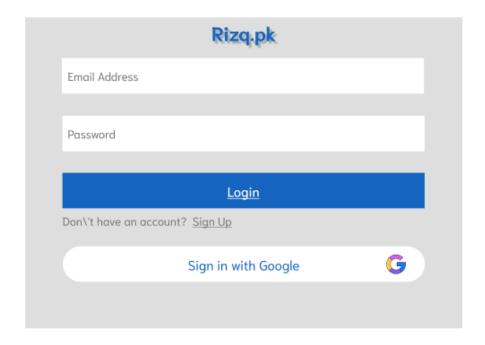
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joinnate@gnaitcom

Rizq.pk f 🛮 💿

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FREE CV REVIEW

Get your CV reviewed by industry experts. Increase your chances of standing out to employers. Free CV Review

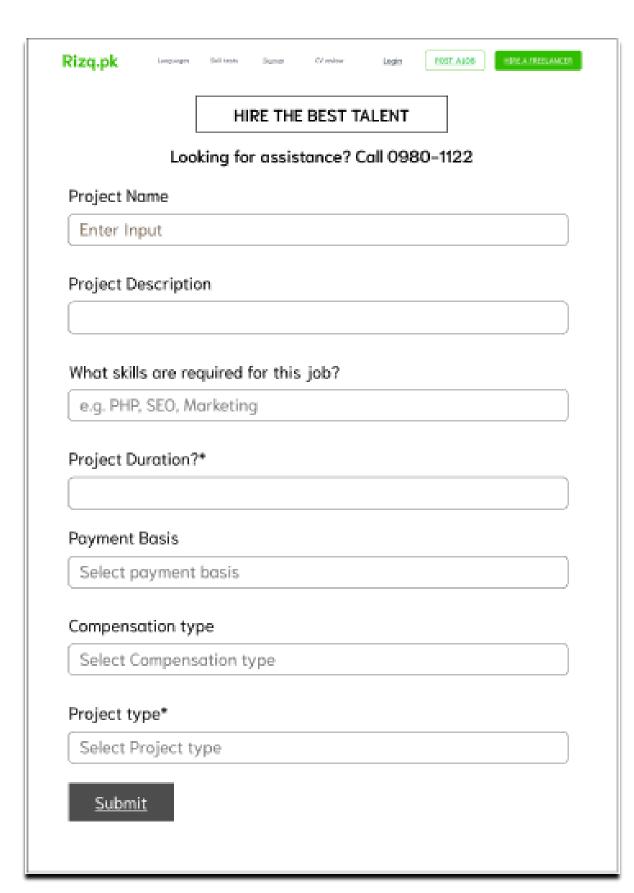
Does your CV pass the 10-second test? Is it good enough to make it to the shortlisted pile instead of the rejected pile? Get free professional feedback on your CV from Rozee experts.



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Languages

Skill tests

Signup

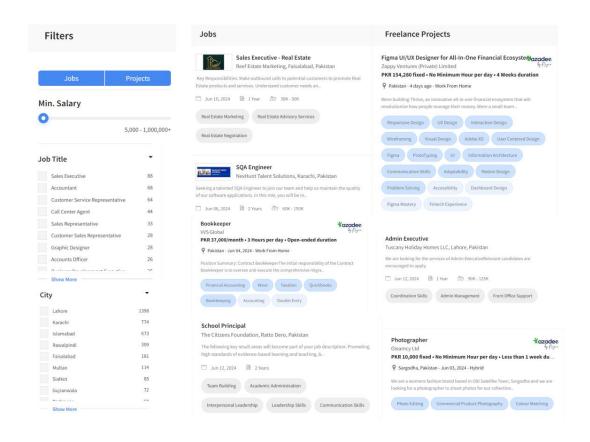
CV review

Login

POST A JOB

HIRE A FREELANCER







Languages

Skill tests

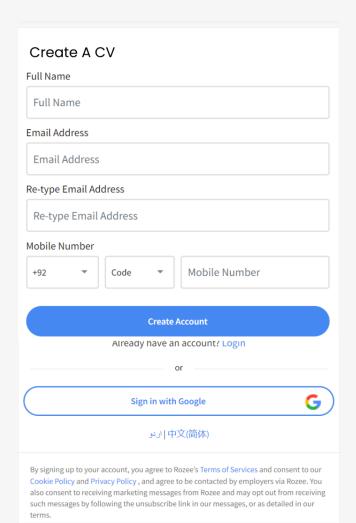
Signup

CV review

Login

POST A JOB

HIRE A FREELANCER



4. Set of Functional, Non-Functional, Constraint & Domain Requirements

4.1. Functional Requirements Description

Functional Req. ID #	Function Name	Function Requirement Description	
FR1	Login	Registration and authentication	
FR2	Profile management	Registered users should have the ability to edit and update their profiles	
FR3	Job Posting	Employers should be able to post jobs	
FR4	Job Search	Users should be able to search for jobs based on different criteria's	
FR5	Analytics	The platform provides analytics and reporting features for employers and administrators	
FR6	Notifications	Users should receive notifications for new job postings, application status updates, messages, etc.	
FR7	Communication	The platform should facilitate communication between job seekers and employers	
FR8	Emp dashboard	Employers should have access to a dashboard	
FR9	Job Alerts	Users should be able to set up job alerts based on their search criteria	
FR10	Helpdesk	Section or helpdesk where users can find answers to frequently asked questions (FAQs)	
FR11	API integration	Allowing third-party developers to build custom applications or integrate with existing HR systems.	
FR12	Feedback	Users should be able to provide feedback and reviews	

4.2. Non-Functional Requirements Description

Non-Functional	Function	Function Requirement Description	
Req. ID #	Name		
NFR1	Performance	Fast response times and ability to handle high concurrency.	
NFR2	Scalability	Seamless accommodation of increasing user and job posting volumes.	
NFR3	Security	Ensuring secure storage and transmission of sensitive data.	
NFR4	Reliability	High availability and minimal downtime for uninterrupted service.	
NFR5	Usability	Intuitive and user-friendly interface for diverse users.	
NFR6	Accessibility	Compliance with accessibility standards for users with disabilities.	
NFR7	Compatibility	Consistent experience across various devices and browsers.	
NFR8	Regulatory	Adherence to local labor laws and regulations in job	
	Compliance	postings and hiring processes.	
NFR9	Maintainability	Clear and modular code for ease of maintenance and	
		updates.	
NFR10	Robustness	Robust backup and recovery procedures for business continuity.	

4.3. Constraint Requirements Description

Constraint Req. ID #	Function Name	Constraint Requirement Description
CON 1	Budget:	Development and maintenance must stay within the allocated budget.
CON 2	Timeline	The portal must be fully functional and ready for launch within the specified timeline.
CON 3	Regulatory Compliance	Ensure compliance with local labor laws, data privacy, and security regulations.

4.4. Domain Requirements Description

Domain Req. ID	Function Name	Constraint Requirement Description
DOM 1	User Permission	Support different user roles (job seekers, employers, administrators) with specific permissions.
DOM 2	Job Posting	Enable employers to create, update, and manage job postings
DOM 3	Search Functionality	Provide advanced search capabilities based on criteria like location and job type
DOM 4	Analytics	Provide analytics and reporting features for employers

5. Implementation of Analysis Techniques

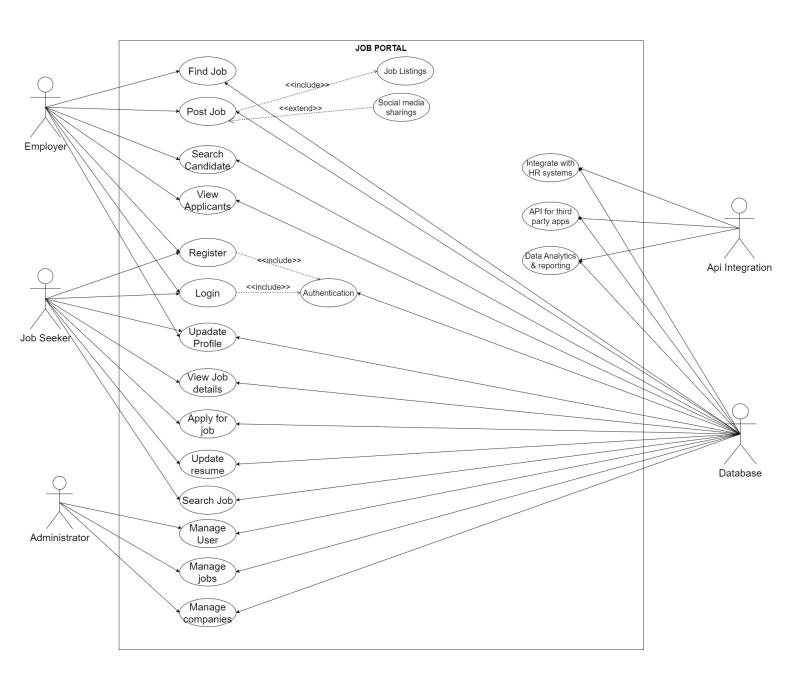
5.1Checklist:

Requirement Id	Complete	Non-Ambiguous	Testable	Necessary	Confliction
FR 1	✓	✓	√	√	×
FR 2	✓	✓	✓	✓	×
FR 3	✓	✓	✓	√	×
FR 4	√	✓	✓	√	×
FR 5	✓	✓	✓	√	×
FR 6	√	✓	✓	√	×
FR 7	✓	✓	✓	✓	×
FR 8	√	✓	✓	√	×
FR 9	✓	✓	✓	✓	×
FR 10	√	✓	✓	√	×
FR 11	✓	✓	✓	√	×
FR 12	✓	√	✓	√	×

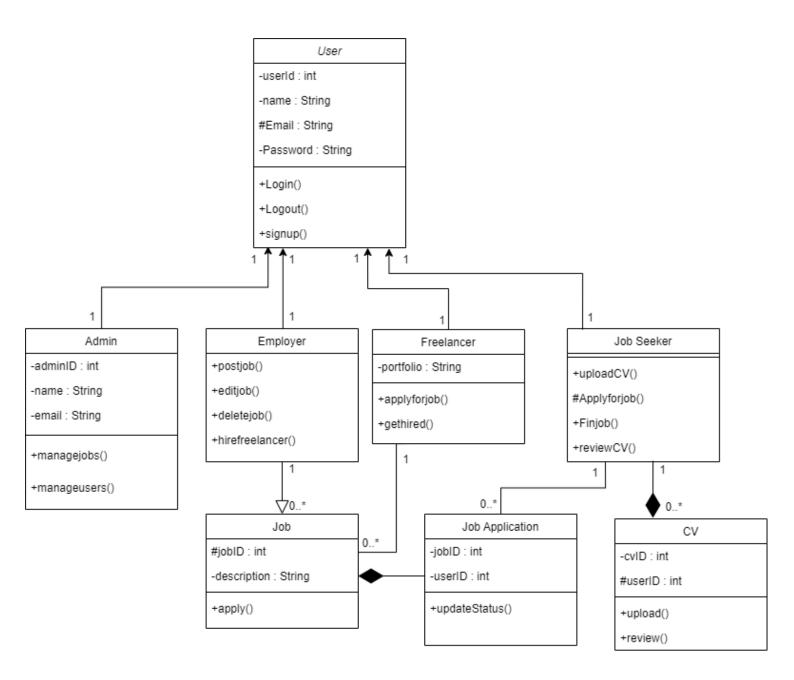
To ensure the quality of the requirements for the Job Portal project, we utilized a checklist to evaluate each of the twelve requirements (FR 1 to FR 12). Each requirement was assessed to ensure it is complete, clear, testable, necessary, and free of conflicts. This approach allows us to identify and resolve issues early on, ensuring the requirements are robust and ready for implementation.

6. Graphical Models of requirement

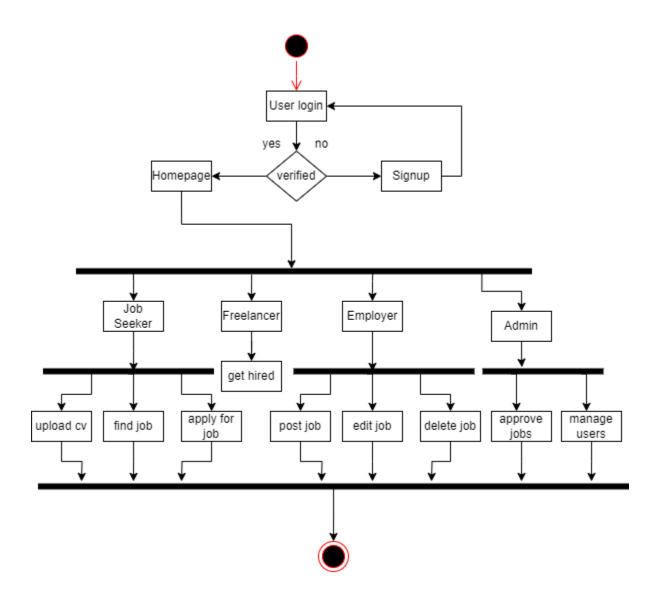
6.1 Use-case Diagram



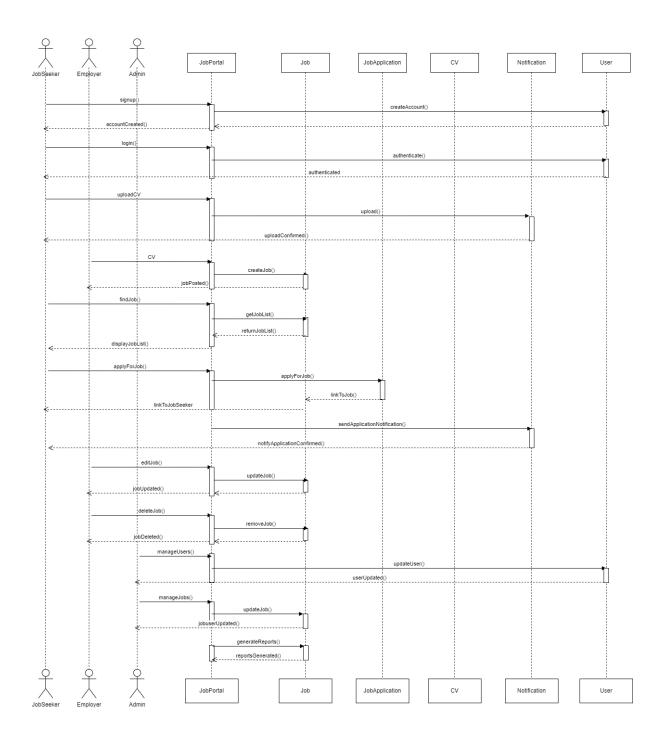
6.2 Class Diagram



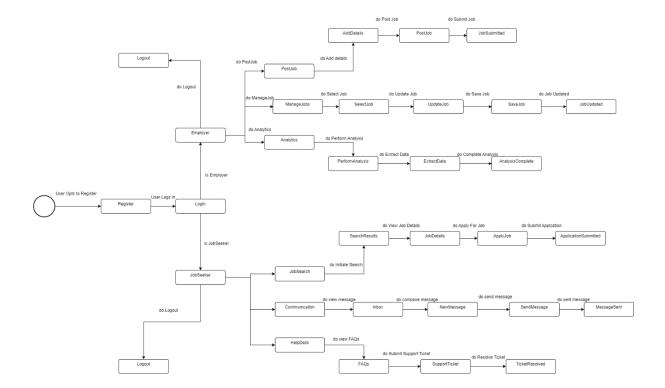
6.3 Activity Diagram



6.4 Sequence Diagram



6.5 State Diagram



7. Use-Case Descriptions

7. 1 Use Case 1:

Use Case	User Registration
Description	Users, including job seekers and employers, can register for an account on the job portal by providing their credentials.
Primary Actor	Job Seeker/Employer
Goal	The users can register to the system.
Pre-Condition	None
Post-Condition	The user is registered and can log in to the system.
Trigger	After successful registration, the user can log in and book appointments.
Scenario	The user navigates to the registration page. The user provides necessary information (name, email, password, etc.). The system validates the provided information. The user receives a confirmation email.

7.2 Use Case 2:

Use Case	Profile Management
Description Users can manage their profiles by personal and professional information	
Primary Actor	Job Seeker/Employer
Goal	The users can update their profiles.
Pre-Condition	The user is logged in.
Post-Condition	The user's profile is updated.
Trigger	The user wants to update their profile information.
Scenario	The user updates professional information (resume, job preferences, etc.). The user saves the changes. The system updates the user's profile.

7.3 Use Case 3:

Use Case	Job Posting
Description	Employers can post job openings on the job portal.
Primary Actor	Employer
Goal	The users can update their profiles.
Pre-Condition	The user is logged in.
Post-Condition	The job posting is available for job seekers to view.
Trigger	The employer wants to post a new job opening.
Scenario	The system validates the provided information.
	The employer confirms the job posting.
	The job posting is created and available for job
	seekers.

7.4 Use Case 4:

Use Case	Job Search
Description Job seekers can search for job openi	
Primary Actor	Job Seeker
Goal	Job seekers can find job openings relevant to their skills and preferences.
Pre-Condition	The job seeker is logged in.
Post-Condition	The job seeker can view and apply for job openings.
Trigger	The job seeker wants to find job openings.
Scenario	The system displays matching job openings. The job seeker views details of selected job openings. The job seeker applies for desired job openings.

7.5 Use Case 5:

Use Case	Analytics		
Description	Employers can view analytics related to job postings and applications.		
Primary Actor	Employer		
Goal	Employers can analyze the performance of their job postings.		
Pre-Condition	The employer is logged in.		
Post-Condition	The employer can view analytics data.		
Trigger	The employer wants to view job posti performance data.		
Scenario	The employer navigates to the analytics page. The system retrieves analytics data (views, applications, etc.). The employer views and analyzes the data.		

7.6 Use Case 6:

Use Case	Communication
Description	Users can communicate with each other through the job portal.
Primary Actor	Job Seeker/employer
Goal	Users can send and receive messages.
Pre-Condition	The user is logged in.
Post-Condition	The messages are sent and received.
Trigger	The user wants to communicate with another user.
Scenario	The user navigates to the communication page. The user selects the recipient. The user writes and sends a message.

7.7 Use Case 7:

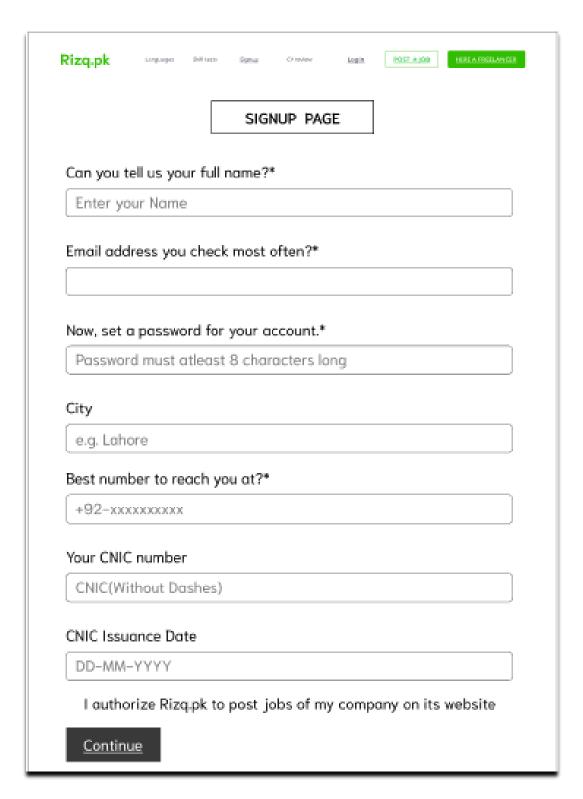
Use Case	Job Alerts
Description	Job seekers can set up job alerts based on their preferences.
Primary Actor	Job Seeker
Goal	Job seekers receive notifications about new job postings matching their criteria.
Pre-Condition	The job seeker is logged in.
Post-Condition	The job seeker receives job alerts.
Trigger	New job postings match the job seeker's criteria.
Scenario	The job seeker navigates to the job alerts page. The job seeker sets up alert criteria (keywords,
	location, etc.). The system saves the alert criteria.

7.8 Use Case 8:

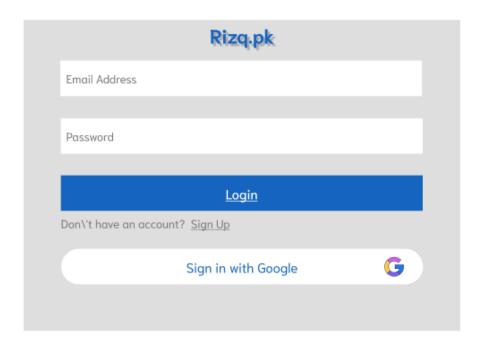
Use Case Helpdesk		
Description	Users can access support and help resources.	
Primary Actor Job Seeker/employer		
Goal	Users can resolve issues and find answers to their questions.	
Pre-Condition	The user is registered.	
Post-Condition	The user's issue is resolved or they find the needed information.	
Trigger	The user needs assistance.	
Scenario	The user navigates to the helpdesk page. The user searches for help topics or submits a support ticket.	

8. Prototypes & Graphical User Interfaces:

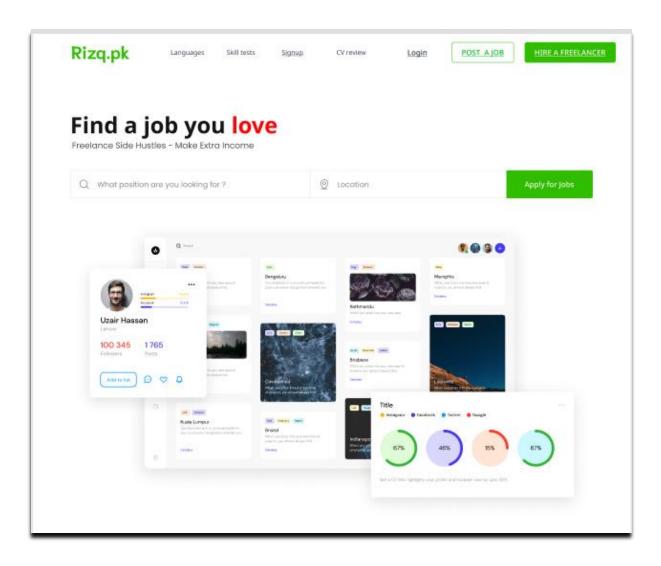
User Sign-up:



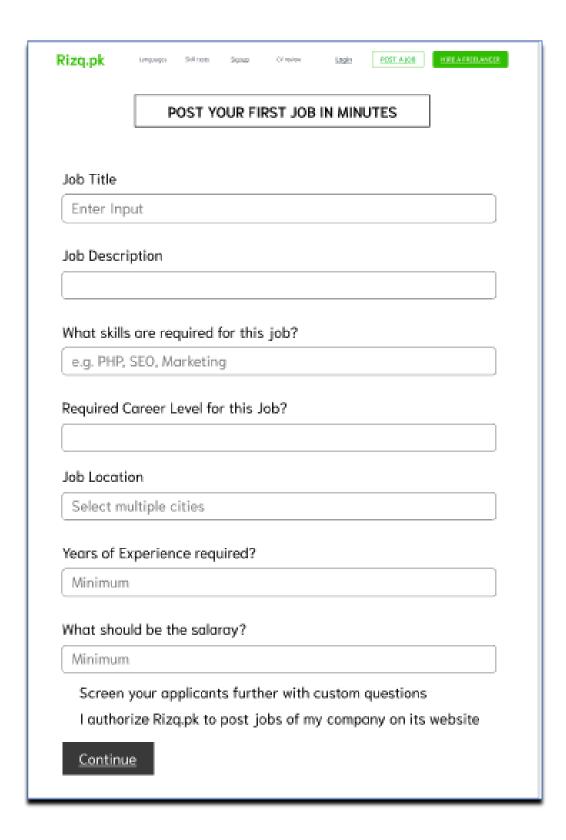
User Login:



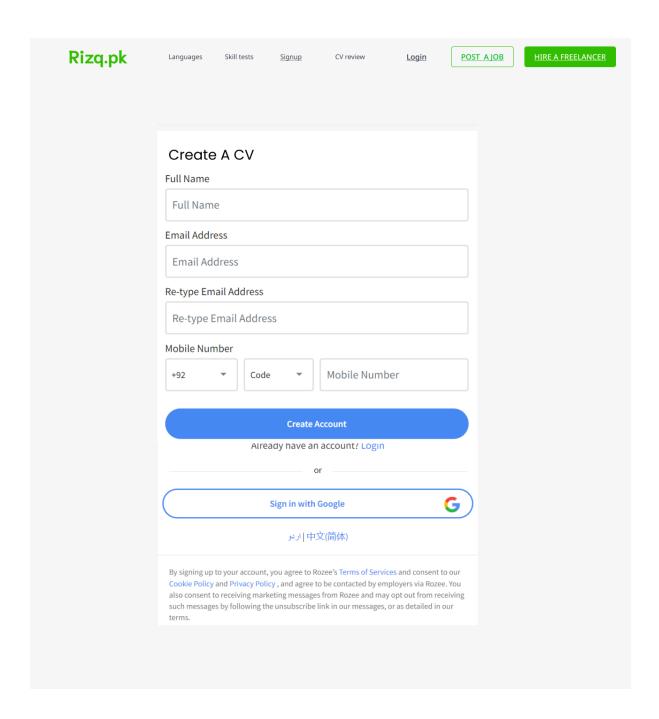
Home Page:



Post a Job:



Create a CV:



8. Feature Prioritization Technique

9.1 MoSCoW

Functional Requirements:

1. FR1: Login

 Registration and authentication are critical for user access and security.

2. FR2: Profile Management

 Users need to manage and update their profiles, essential for personalized experience and accuracy.

3. FR3: Job Posting

 Employers must be able to post jobs, which is the core functionality of the platform.

4. FR4: Job Search

 Users should be able to search for jobs based on various criteria, crucial for job seekers.

5. FR5: Analytics

 Providing analytics and reporting features to employers and administrators to track platform usage and effectiveness.

6. FR6: Notifications

 Users need to receive notifications for new job postings, application status updates, messages, etc., for timely updates.

7. FR7: Communication

 Facilitating communication between job seekers and employers is essential for the hiring process.

8. FR8: Employer Dashboard

 Employers require access to a dashboard to manage posted jobs, applications, and other activities.

9. FR9: Job Alerts

 Users should have the ability to set up job alerts based on their preferences to stay informed about relevant job postings.

10. FR10: Helpdesk

 Providing a section or helpdesk with FAQs helps users find answers and resolve common issues efficiently.

11. FR11: API Integration

 Allowing third-party developers to integrate with existing HR systems or build custom applications extends platform functionality.

12. FR12: Feedback

 Users should be able to provide feedback and reviews, fostering continuous improvement.

Non-Functional Requirements:

1. NFR1: Performance

 Fast response times and optimized performance under high concurrency to ensure user satisfaction and efficiency.

2. NFR2: Scalability

 Ability to scale seamlessly to accommodate increasing user and job posting volumes without compromising performance.

3. NFR3: Security

 Ensuring secure storage and transmission of sensitive user data and job information to protect privacy and prevent unauthorized access.

4. NFR4: Reliability

 High availability and minimal downtime to ensure uninterrupted service and reliability for users and employers.

5. NFR5: Usability

 Intuitive and user-friendly interface design for easy navigation and usage by diverse users.

Should Have

Functional Requirements:

- FR3: User can view Bus/Train Schedules & Routes.
- FR7: User can rate drivers according to their ride experiences.
- FR8: User should receive discounts according to ongoing offers.

Non-Functional Requirements:

- NFR2: User should have a robust backend infrastructure.
- NFR8: DriveDex should offer 24/7 customer support through multiple channels.
- NFR9: DriveDex should monitor app performance to identify bottlenecks.

Could Have

Functional Requirements:

- FR6: Personalized ride recommendations based on user behavior.
- FR9: Social features for users to share ride experiences.

Won't Have (for this release)

Functional Requirements:

- FR10: In-app chat for drivers and users.
- FR11: Bonuses for drivers to take longer routes.
- FR12: Integration with public transportation systems beyond bus/train schedules (like metro, orangetrain).
- FR13: Leaderboards for drivers to improve their ratings.
- FR14: Priority booking for frequent users.
- FR15: In-app payment and tipping options.
- FR16: Driver training and certification programs.

•

10. Requirements Traceability Matrix10.1 RTM

Requirement ID	FR1	FR2	FR3	FR4	FR5	FR6	FR7	FR8	FR9	FR10	FR11	FR12
FR1	*											
FR2	*	*										
FR3			*					*				
FR4				*					*			
FR5					*			*				
FR6						*			*			
FR7							*					
FR8			*					*				
FR9				*		*						
FR10										*		
FR11											*	
FR12										*		*

Verification

- FR1: Login maps to User registration
- FR2: Profile Management maps to User registration and Database
- FR3: Job Posting maps to Employer Portal and Management of Job Postings
- FR4: Job Search maps to Job Search and Job Alerts
- FR5: Analytics maps to Premium Features and Employer Portal
- FR6: Notifications maps to Tools for Communication and Job Alerts
- FR7: Communication maps to Tools for Communication
- FR8: Employer Dashboard maps to Employer Portal and Management of Job Postings
- FR9: Job Alerts maps to Job Search and Tools for Communication
- FR10: Helpdesk maps to User and Technical Support
- FR11: API Integration maps to Installation, configuration, and support
- FR12: Feedback maps to User and Technical Support

This matrix ensures all functional requirements are properly traced to the key features, providing a comprehensive overview of the system's capabilities.

10.2 Validation Technique:

User Acceptance Testing (UAT):

- **Importance**: UAT ensures that your social media platform meets the needs and expectations of actual end-users before deployment.
- **Application**: Engage beta testers or representative users to test all functionalities, interactions, and overall usability of the platform.

Performance Testing:

- **Importance**: Ensures your platform can handle the expected load of users and interactions without performance degradation.
- **Application**: Test scenarios such as posting, commenting, media uploads to measure response times, resource usage, and scalability.

Security Testing:

- Importance: Critical for protecting user data and maintaining trust.
- **Application**: Conduct penetration testing, vulnerability assessments, and code reviews to identify and fix security vulnerabilities.

Usability Testing:

- **Importance**: Ensures the platform is user-friendly and intuitive, crucial for user retention.
- **Application**: Test navigation, layout, accessibility, and overall ease of use with real users to gather feedback for improvement.

Integration Testing:

- **Importance**: Validates interactions and data flow between different components/modules.
- **Application**: Test APIs, third-party integrations, and ensure seamless functionality across various parts of the platform.

? Regression Testing:

- **Importance**: Ensures that recent changes or updates do not negatively impact existing functionalities.
- **Application**: Re-run tests on previously working features to detect any unintended side effects from new developments.

Requirement ID	Function Name	Requirement Description	Key Features / Additional Features	Test Case ID
FR1	Login	Registration and authentication	User registration	TC_FR1
FR2	Profile management	Registered users should have the ability to edit and update their profiles	User registration, Database	TC_FR2
FR3	Job Posting	Employers should be able to post jobs	Employer Portal, Management of Job Postings	TC_FR3
FR4	Job Search	Users should be able to search for jobs based on different criteria	Job Search	TC_FR4
FR5	Analytics	The platform provides analytics and reporting features for employers and administrators	Premium Features	TC_FR5
FR6	Notifications	Users should receive notifications for new job postings, application status updates, messages, etc.	Tools for Communication	TC_FR6
FR7	Communication	The platform should facilitate communication between job seekers and employers	Tools for Communication	TC_FR7
FR8	Emp dashboard	Employers should have access to a dashboard	Employer Portal	TC_FR8
FR9	Job Alerts	Users should be able to set up job alerts based on their search criteria	Job Search	TC_FR9
FR10	Helpdesk	Section or helpdesk where users can find answers to frequently asked questions (FAQs)	User and Technical Support	TC_FR10
FR11	API integration	Allowing third-party developers to build custom applications or integrate with existing HR systems.	Installation, configuration, and support	TC_FR11
FR12	Feedback	Users should be able to provide feedback and reviews	User and Technical Support	TC_FR12

Requirement ID	Function Name	Requirement Description	Key Features / Additional Features	Test Case ID
NFR1	Performance	Fast response times and ability to handle high concurrency.	-	TC_NFR1
NFR2	Scalability	Seamless accommodation of increasing user and job posting volumes.	-	TC_NFR2
NFR3	Security	Ensuring secure storage and transmission of sensitive data.	Database	TC_NFR3
NFR4	Reliability	High availability and minimal downtime for uninterrupted service.	-	TC_NFR4
NFR5	Usability	Intuitive and user-friendly interface for diverse users.	User registration, Job Search, Employer Portal	TC_NFR5
NFR6	Accessibility	Compliance with accessibility standards for users with disabilities.	-	TC_NFR6
NFR7	Compatibility	Consistent experience across various devices and browsers.	-	TC_NFR7
NFR8	Regulatory Compliance	Adherence to local labor laws and regulations in job postings and hiring processes.	-	TC_NFR8
NFR9	Maintainability	Clear and modular code for ease of maintenance and updates.	-	TC_NFR9
NFR10	Robustness	Robust backup and recovery procedures for business continuity.	-	TC_NFR10

11. Lesson Learned

We learned understanding of the significance of precise documentation, comprehensive requirements collecting, iterative development, and open communication. The important things were to follow non-functional criteria, use graphical models efficiently, and strike a balance between usefulness and usability. For the project to be successful, it was imperative to manage time and budget, ensure traceability, and promote team communication.