Students Kit

Objective

The objective of the Web-based Recruitment Process System is to streamline and enhance the recruitment process for the HR department of the company. The system aims to provide a user-friendly platform that connects job seekers and recruiters, facilitating efficient job postings, applications, and candidate evaluations. Our goal is to improve the hiring experience for both HR professionals and applicants while ensuring a transparent and organized recruitment workflow.

Requirements Specification (RS)

A Requirements Specification (RS) document for a grains trading website outlines the functional and non-functional requirements of the system. These requirements help guide the development process and ensure that the website meets the needs of its users.

No.	Requirement	Essential/ Desirable	Description of the Requirement	Remarks
RS1	User Login	Essential	A Welcome Page should appear when the URL is invoked, with a login option for HR staff and candidates.	
RS2	Help Screens	Essential	Detailed help in Q&A format about various features of the system should be provided.	Relevant help screens are desirable.
RS3	Lock Login ID	Desirable	Lock the login ID after 3 failed password attempts.		Improves application security
RS4	Easy Navigation	Essential	Users should easily navigate between different sections of the system.	

RS5	Extensibility	Essential	The system should accommodate new features and user roles as needed.	
RS6	Job Listings	Essential	Users should be able to view and apply for job listings clearly.	
RS7	Role-based Access	Essential	Navigation options should differ based on user role (HR staff vs. candidates).	
RS8	Logout Option	Essential	Users should be able to log out securely.	

Database Fields Specification

User table :

No.	Field Name	Range of valid values for the field	Remarks
1	User_id	1 to 10000	Primary key
2	User_Name	Up to 15 characters in length.	Special characters like underscore are not allowed.
3	Email _id	Up to 30 characters	Must follow valid email format
4	Password	Up to 15 characters	Special characters like underscore are allowed.
5	Full Name	Before last date	Should be before last date
6	Phone Number	Up to 10 integers	
7	Account Type	Up to 10 characters in length	Specifies role (HR or Candidate).

Job Listings Table:

No.	Field Name	Range of valid values for the field	Remarks
1	Listing_id	1 to 10000	Primary key
2	Job_Title	Upto 50 characters	
3	Description Characters	Upto 500 characters	Should specify the date
4	Date_Posted	Up to 15 characters in length.	Should mention about (e.g., active, sold, expired)
5	Status	Up to 15 characters	Active, closed, filled

Applications Table::

No.	Field Name	Range of valid values for the field	Remarks
1	Application_id	1 to 10000	Primary field
2	Listing_id	1 to 10000	Foreign key to Job Listings
3	Candidate_id	1 to 10000	Foreign field to Users
4	Application_Date	Valid date format	
5	Status	Up to 15 characters	Pending, reviewed, accepted, rejected

High Level/Detailed Design (HLD/DD)

System Overview

The Web-based Recruitment Process System is designed to support both HR staff and candidates, offering distinct functionalities based on user roles.

HR Staff Components**:**
- o   User Registration and Login:
- o   Dashboard for Job Listings
- o   Job Posting and Management
- o   Application Review and Management
- o   Reporting and Analytics
- o   Logout Screen

Candidate Components:
- o   User Registration and Login
- o   Dashboard for Job Applications
- o   Job Search and Filters
- o   Application Submission
- o   Application Status Tracking
- o   Logout Screen

o   Logout Screen

Test-Plan (TP)

The test plan for the Web-based Recruitment Process System includes a comprehensive strategy to ensure functionality, performance, and security through various testing stages. The test plan for the Web-based Recruitment Process System includes a comprehensive strategy to ensure functionality, performance, and security through various testing stages.

These are important to note that the test cases cover all the aspects of the system (ie, all the requirements stated in the RS document).

No.	Test case Title	Description	Expected Outcome	The requirement in RS that is being tested	Result
1	Successful User Registration	HR staff and candidates register and log in with valid credentials HR staff and candidates register and log in with valid credentials	Successful login; user enters the system	RS1	Passed
2	Unsuccessful User Verification	Attempt to log in with an incorrect password	Login should fail with an error 'Invalid Password'	RS2	Passed
3	Unsuccessful User Verification	Attempt to log in with an invalid user ID	Login should fail with an error 'Invalid user id'	RS3	Passed

4	Successful logout	System data should not be available after logging out of system	Logout process	RS8	Passed
5	Job Listings Display	Ensure job listings are displayed correctly for users.	All job listings are visible to users	RS6	Passed
6	Screen navigation test	Test for easy navigation between different sections of the system	Easy navigation and simple GUI	RS4	Passed
7	Role-based Access Test	Verify navigation options differ based on user roles	Correct options display for HR staff and candidates	RS,7	Passed
8	Data Integrity	Ensure data entered in job postings and applications is saved accurately	Data is correctly stored and retrievable.	RS5	Passed
9	Load and stress test	Assess system performance under multiple user logins	System remains responsive under stress	RS5	Passed