

Referral Portal

CS814 Course Project Report

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INTRODUCTION

An employee referral program is a recruitment method designed to allow employees to be involved in their company's recruiting process. The idea revolves around employees sharing their company's job vacancies in their own networks and providing recommendations for candidates who apply.

When you load the application it will show the login page. After successful login it will show the homepage.

Home

When any user login into the application homepage will appear which will show 'Total Referrals' , 'Total Hired' , 'In progress' , 'Total Rejected'.

Employees

This section will contain the various details of the employees present in the organization.

Jobs

When any user clicks on the job section it will display the various job openings present in the organization. Users can add referral for a particular post.

Profile

In the profile section, the user can view his profile details.

Logout

Clicking on this option, the user will logout from the session.

Admin

If you are an admin user, you will get options as 'Add Employee' , 'Delete Employee' , 'Modify Employee' in the employee section of the application.

Add Employee

If you click on the add employee section you will get the form in which you need to enter the details of the new user. After filling the details the user will be stored in the database.

Delete Employee

In this section you will see a list of all employees with all their details like name, age, email, designation and their role. Delete button will be present in every row for a particular user. Clicking on that button will remove employee records from the database.

Modify Employee

In this section the admin can modify the details of the employees present in the organization.

HR

If you are a HR user, you will have options like ‘Add new job’ , ‘Delete job’ in the jobs section of the application.

Add new Job

If you click on this option you will get a form in which you have to add a description of the new job opening. Job details will be stored in the database.

Delete Job

If the post has been filled for a particular post or organization wishes to not fill the particular job vacancy then HR can delete a job from the job listings by clicking on the delete job button.

Modify Employee

HR users can modify the details of a particular employee present in the organization by clicking the edit option present in the Employee section of the application.

Employee

If employee users login into the application, they can view the details of employees present in the organization by clicking into the employee section.

If a user clicks on the job section of the application then various job listings with description will appear and the user can add a referral for any particular job opening.

AUTHORIZATION

RBAC Authorization:

RBAC – Role Based Access Control

Role-based access control (RBAC) is a policy-neutral access-control mechanism defined around users, roles and permissions. The components of RBAC such as user, user-role assignment, roles, permissions, role-permission relationships make it simple to implement authorization.

RBAC addresses many needs of commercial and government organizations. RBAC can be used to facilitate administration of security in large organizations with hundreds of users and thousands of permissions.

Although RBAC is different from MAC and DAC access control frameworks, it can enforce these policies without any complication.

RBAC do authorization on the basis of functionalities rather than on the basis of particular users.

We use database to store data and implemented auto authorization which makes our application scalable.

COMPONENTS OF RBAC IN OUR APPLICATION

1. Users
2. Roles
3. Permissions

Types of Roles: Employees, HR, Admin

Types of Permissions: 1. Job read, write access.

2. Employee add, delete access.

CONCLUSION

To implement the authorization in our application in which there is many users, RBAC provides an easy and efficient way to implement authorization in our application using concept of assigning roles and permissions on the basis of functionalities and not on the individual user.

As RBAC implementation approach we have use the database to store our application is scalable. It also made it possible for auto authorization in the system.

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