

# **INFOSYS SPRINGBOARD INTERNSHIP 5.0**

## **TITLE: RIGHT RESOURCE FIT**

### **PROBLEM STATEMENT :**

Right Resource Fit: This project aims to empower the Recruitment Team by providing a comprehensive job portal that facilitates recruitment-related functions. The platform also enables applicants to apply for their desired job.

### **TEAM MEMBERS :**

SAMYUKTA NAIR

KALAI KUMAR

VEMPATI BHARGAVI

DEEPANSHU KUMAR

JAISH SINGH

PONNALA VIKASNI REDDY

## **ACKNOWLEDGMENT**

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Special thanks to our team members, whose dedication and collaborative spirit have been instrumental in achieving the project milestones.

## ABSTRACT

The **Right Resource Fit** project focuses on creating a comprehensive system to assist Human Resource Management teams in efficiently handling recruitment-related tasks. Built using the MERN stack (MongoDB, Express.js, React.js, and Node.js), the system streamlines key HR functionalities, including job postings, applicant tracking, and much more.

Key features of the project include user registration and login, job search capabilities for applicants, job posting management for HR professionals, and profile creation. The project aims to enhance the efficiency of HR operations by offering an integrated and user-friendly platform.

This report provides an overview of the development process, including the design, implementation, and evaluation of the system. Detailed modules, technologies, and methodologies used are discussed to ensure a thorough understanding of the project objectives and outcomes.

# INTRODUCTION

## **Objective of the Project:**

The Right Resource Fit project was conceptualized to address the challenges faced by Human Resource teams in managing recruitment processes. The project aims to streamline HR functions by leveraging modern technologies for job posting, applicant tracking, and notifications.

## **Background and Importance:**

In today's competitive job market, ensuring an efficient and user-friendly recruitment process is crucial. Many existing systems lack the flexibility or scalability needed to meet the diverse requirements of both HR teams and job applicants. This project aims to fill this gap by offering a comprehensive platform designed for modern HR needs.

## **Scope of the Project:**

The project focuses on key functionalities, including user management, job postings, application tracking etc. It is designed for scalability and ease of use, ensuring that it can adapt to varying organizational requirements.

## **Technologies Used:**

The system was built using the MERN stack (MongoDB, Express.js, React.js, and Node.js), chosen for its ability to create dynamic, scalable, and secure web applications.

### Expected Impact:

This platform is expected to significantly enhance the efficiency of HR processes while providing applicants with a seamless experience, ultimately improving recruitment outcomes for organizations.

## Getting started

### Prerequisites:

- Node.Js and npm
- IDE like VSCode
- SMTP like Gmail
- MongoDB

### Installation:

- Clone the repository  
[:https://github.com/springboardmentor106/RightResourceFit\\_Infosys\\_Internship\\_Oct2024\\_Team\\_05](https://github.com/springboardmentor106/RightResourceFit_Infosys_Internship_Oct2024_Team_05)
- Npm install

### Setting up the Database:

Make a file named .env following the .env example file

Eg]

```
MONGODB_URL = your_mongodb_url

MONGODB_DB_NAME =db_name
MONGODB_USER =//for mongodb atlas
MONGODB_PASSWORD =//for mongodb atlas
BACKEND_LISTEN_PORT = 3000
REACT_APP_BACKEND_API_URL = http://localhost:3000

USERS_COLLECTION =
SESSIONS_COLLECTION =
```

```
CORS_ALLOWED_ORIGINS = http://localhost:3000, http://localhost:3001
```

## Running the application:

For running backend:

- Cd backend
- Npm run dev

For frontend:

- Cd frontend
- Cd job\_portal
- Npm start

## Folder Structure:

1) **Backend folder** : Main file- server.js

Src- Contains all files defined for backend logic . All the below files are included in Src

- Db - Contains the Schema of all tables with all the functionality related to database
- Email- Contains password reset logic
- Routes-Contains all the routes defined for integrating frontend with backend
- Uploads- Handles file uploads for job applications (for eg: resume) with Multer

2) **Frontend/Job\_portal folder**: Besides the src folder below are the main folders in src

- Components-consists of components like footer , navbar
- Pages- consists of the main pages in the application

Example files:

- LoginPage.js
- JobListingPage.js
- UserDashboard.js

## **Key Features and Modules**

### **User Management:**

- Secure signup and login for job seekers and companies
- OTP-based password recovery

### **Job Postings:**

- HR can create, edit, and delete job postings
- Job seekers can view and filter job listings

### **Application Tracking:**

- Job seekers can apply for jobs and track their status
- HR can view applications, shortlist, or reject candidates

### **Interaction & Notifications:**

- Notifications for application status updates respective to whether an application has been accepted or rejected

### **Profile creation:**

- Recruiters can create and edit their profile

### **Job Applications:**

- Job seekers can apply for their desired jobs
- Job application can be edited or deleted accordingly

## **Project Components**

### **Frontend Components:**

1. **Login Component:** Handles login with email/password and 'Remember Me' option.
2. **Register Component:** Signup forms for different user roles (Job Seeker, HR).
3. **Reset Password Component:** OTP verification for secure password resets.
4. **Dashboard Component:**
  - HR: Overview of job posts and applications.
  - Job Seekers: Personalized feed of job listings and status.

### **Backend Components:**

1. **Authentication API:**
  - Secure token-based authentication using JWT.
2. **Job Management API:**
  - CRUD operations for job postings.



### 3. Application API:

- Track job applications and communicate with users.

## API Documentation

### 1. User Registration API

- **Endpoint:** /api/register
- **Method:** POST
- **Request Body:**

```
{  
  "name": "vikasnireddy",  
  "email": "vikasnredd@gmail.com",  
  "password": "hashedPassword123", // This is the hashed password  
  "role": "Job Seeker" // Example: Role from your logic  
}
```

- **Response:**

```
{  
  "success": true,  
  "message": "User registered successfully",  
  "userId": "6747a1a95e89e79635ae63ae5"  
}
```

### 2. Login API

- **Endpoint:** /api/login
- **Method:** POST

- **Request Body:**

```
{  
  "email": "vikasnreddy@gmail.com",  
  "password": "yourPlainPassword"  
}
```

- **Response:**

```
{  
  "success": true,  
  "message": "Login successful",  
  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",  
  "user": {  
    "id": "674862b2e89e79635ae63b35",  
    "username": "vikasnreddy1",  
    "email": "vikasnreddy@gmail.com",  
    "createdAt": "2024-11-28T12:31:46.186+00:00"  
  }  
}
```

### 3. Reset Password API

#### Request OTP

- **Endpoint:** /api/reset-password/request
- **Method:** POST
- **Request Body**

```
{  
  "email": "vikasnreddy@gmail.com"  
}
```

- **Response:**

```
{  
  "success": true,  
  "message": "Password reset OTP sent to your email."  
}
```

## Verify OTP

- **Endpoint:** /api/reset-password/verify

- **Method:** POST

- **Request Body:**

```
{  
  "email": "vikasnreddy@gmail.com",  
  "otp": "123456",  
  "newPassword": "newSecurePassword123"  
}
```

- **Response:**

```
{  
  "success": true,  
  "message": "Password reset successfully."  
}
```

## 4. Job Posting API (for HR)

### Create Job Post

- **Endpoint:** /api/job-posting

- **Method:** POST
- **Headers:**
  - Authorization: Bearer <token>

- **Request Body**

```
{  
  "title": "Software Developer",  
  "description": "abcdefghijklmnop",  
  "location": "Hyderabad",  
  "skills": ["C", "Java"]  
}
```

- **Response**

```
{  
  "success": true,  
  "message": "Job posted successfully.",  
  "jobId": "674b07814e2ae7de927b3112"  
}
```

## View Job Posts

- **Endpoint:** /api/job-posting
- **Method:** GET
- **Response:**

```
{  
  "success": true,  
  "jobs": [  
    {  
      "_id": "674b07814e2ae7de927b3112",
```

```
    "title": "Software Developer",
    "description": "abcdefghijklmnop",
    "location": "Hyderabad",
    "skills": ["C", "Java"],
    "createdAt": "2024-11-30T12:39:29.064+00:00",
    "updatedAt": "2024-11-30T12:39:29.064+00:00"
  }
]
}
```

## 5. Application Tracking API (for Job Seekers)

### Apply for a Job

- **Endpoint:** /api/apply-job
- **Method:** POST
- **Headers:**
  - Authorization: Bearer <token>
- **Request Body**

```
{
  "jobId": "674b07814e2ae7de927b3112",
  "applicantId": "674b08af4e2ae7de927b311d",
  "firstName": "Vikasni Reddy",
  "lastName": "Ponnala",
  "gender": "Female",
  "dob": "2005-04-13T00:00:00.000+00:00",
  "email": "vikasnireddyponnala@gmail.com",
  "contactNumber": "1234567890",
}
```

```
"educationLevel": "Bachelor's",
"experienceLevel": "0-1 Years",

"resume": "C:\\college\\wqlknd\\New
folder(3)\\RightResourceFit_Infosys_Internship_O...",

"terms": true
}
```

- **Response:**

```
{
  "success": true,
  "message": "Application submitted successfully.",
  "applicationId": "674b093c4e2ae7de927b313d",
  "appliedAt": "2024-11-30T12:46:52.066+00:00"
}
```

## View Application Status

- **Endpoint:** /api/application-status
- **Method:** GET
- **Headers:**
  - Authorization: Bearer <token>

- **Response:**

```
{
  "success": true,
  "applications": [
    {
      "applicationId": "674b093c4e2ae7de927b313d",
```

```
{
  "jobId": "674b07814e2ae7de927b3112",
  "jobTitle": "Software Developer",
  "company": "Tech Corp",
  "location": "Hyderabad",
  "status": "Under Review",
  "appliedAt": "2024-11-30T12:46:52.066+00:00"
}
```

## Frontend Screenshots

### 1)Applicant Side Pages:

#### Sign Up

### Sign Up

Sign Up

Already have an account? Sign In


## Welcome!

Sign up now to discover new opportunities or explore talent!

## Sign In

### Sign In

Username

Password 

Forgot Password?

Sign In

Not a member? Sign Up

## Welcome Back!

Looking for talent or a new career? Sign in and make it happen!

## Forgot Password

### Forgot Password

Enter your Email Id

We will send you a 6-digit recovery code to your Email

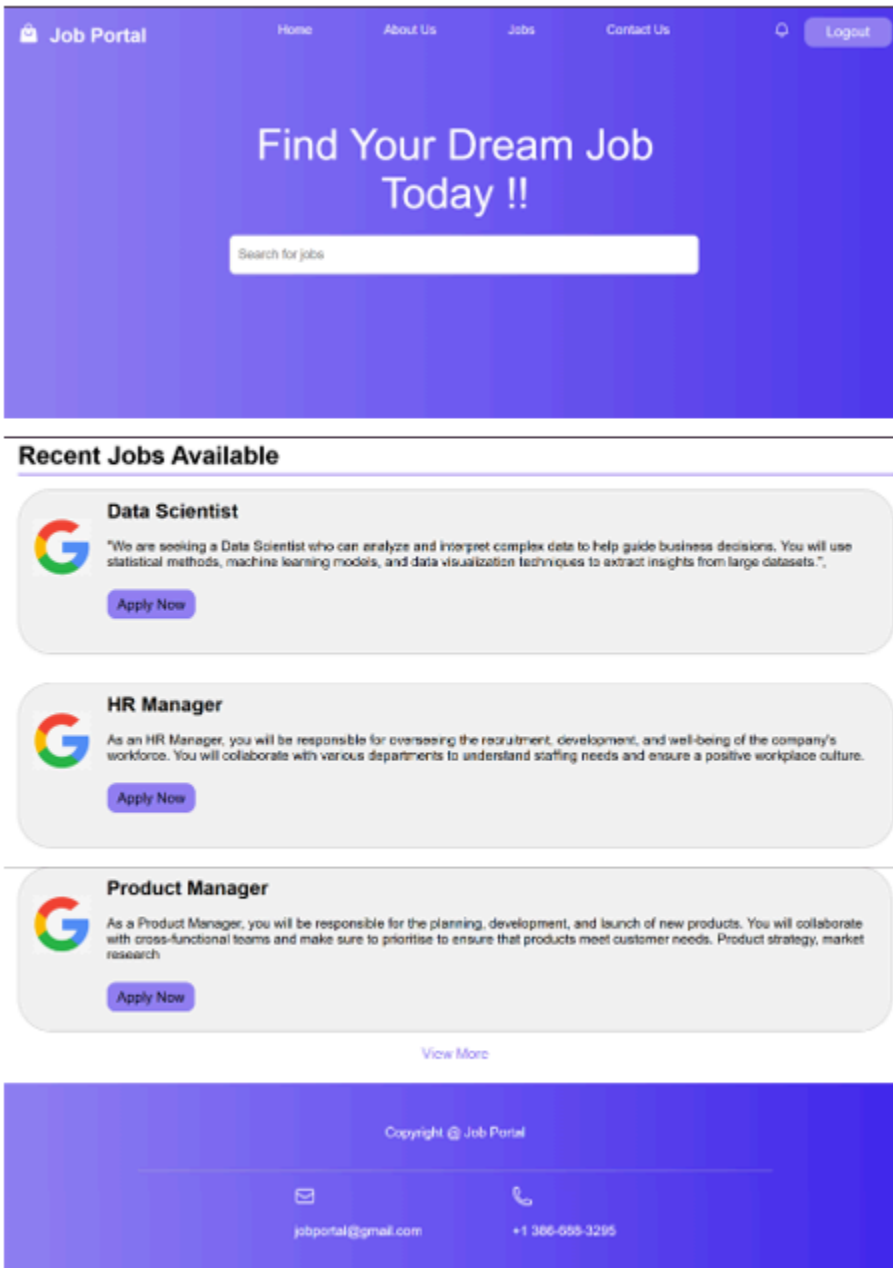
Send Code

## Welcome!

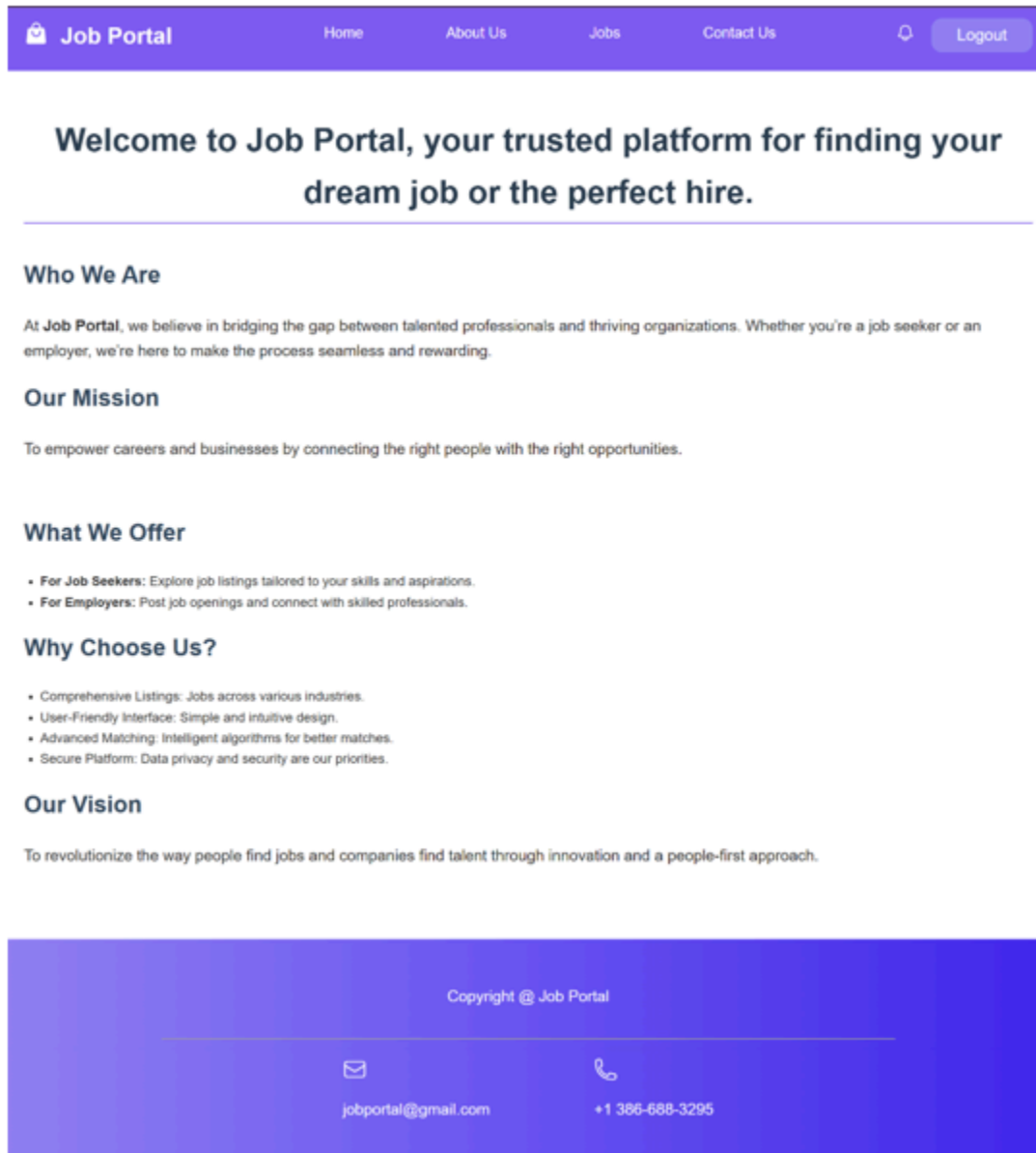
Even the best applicants and recruiters lose their way sometimes. Let's recover your password and get back on track!



## Home page




## About Us page



## All Jobs


### All Jobs



**Product Manager**

As a Product Manager, you will be responsible for the planning, development, and launch of new products. You will collaborate with cross-functional teams and make sure to prioritise to ensure that products meet customer needs. Product strategy, market research

Apply Now



**HR Manager**

As an HR Manager, you will be responsible for overseeing the recruitment, development, and well-being of the company's workforce. You will collaborate with various departments to understand staffing needs and ensure a positive workplace culture.

## Notification

**Job Rejected**

Your application has been rejected.

**Job Accepted**

Your application has been accepted!

## Application

### Application Form

First Name	Last Name
<input type="text"/>	<input type="text"/>
Gender	Date of Birth
<div>Select Gender</div>	<div>dd-mm-yyyy</div>
Email ID	Contact Number
<input type="text"/>	<input type="text"/>
Education Level	Experience Level
<div>Select Education Level</div>	<div>Select Experience Level</div>
Resume/CV	
<div>Choose File</div>	
<input type="checkbox"/> I agree with Terms & Conditions	
<div>Apply Now</div>	

# All Applied Jobs

## Applied Jobs

**Product Manager**

As a Product Manager, you will be responsible for the planning, development, and launch of new products. You will collaborate with cross-functional teams and make sure to prioritise to ensure that products meet customer needs. Product strategy, market research

Location: Bangalore

Edit


Delete


Email: e21@somaiya.edu

## 2]Recruiter Side Pages:

### Sign Up

### Recruiter's Sign Up






Sign Up


Already have an account? Sign In


## Welcome!


Ready to transform recruitment? Join us and make hiring a breeze!


### Home Page


 **Job Portal**

 Dashboard


 Messages

 Company Profile

 All Applicants

 Job Listing

Logout

 **Admin**  
HR In Google

### Welcome Back Admin

+ Post A Job

Talent wins games, but teamwork wins championships

Hire character. Train skill

The strength of the team is each individual member

#### Job Updates

#### Recently Posted Jobs

#### Data Scientist


"We are seeking a Data Scientist who can analyze and interpret complex data to help guide business decisions. You


#### HR Manager


As an HR Manager, you will be responsible for overseeing the recruitment, development, and well-being of the


#### Product Manager


As a Product Manager, you will be responsible for the planning, development, and launch of new products. You


 **Job Portal**

 Dashboard


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 **Admin**  
HR in Google

## Job Updates

### Recently Posted Jobs

#### Data Scientist

"We are seeking a Data Scientist who can analyze and interpret complex data to help guide business decisions. You will use statistical methods, machine learning models, and data visualization techniques to extract insights from large datasets."

Edit

Delete

#### HR Manager

As an HR Manager, you will be responsible for overseeing the recruitment, development, and well-being of the company's workforce. You will collaborate with various departments to understand staffing needs and ensure a positive workplace culture.

Edit

Delete

#### Product Manager


As a Product Manager, you will be responsible for the planning, development, and launch of new products. You will collaborate with cross-functional teams and make sure to prioritise to ensure that products meet customer needs. Product strategy, market research


Edit


Delete


[View More >>](#)


## Profile


 **Job Portal**

 Dashboard


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Logout

 **Admin**  
HR in Google



## Your Profile

Manage your profile information and keep it up to date.

#### Personal Details


Username: Admin  
Phone Number: 8657419780  
Email ID: nsamyukta11@gmail.com  
Company Role: HR


#### Professional Links


LinkedIn: [View LinkedIn Profile](#)  
Website: No website provided  
Industry Experience: 12 years in Google as HR


Edit Profile


## Job Posting


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### Post a Job

**Job Title:**

**Job Description:**

**Skills:**

**Job Mode:**  
☐ Onsite ☐ Hybrid ☐ Remote

**Experience:**  
☐ Beginner ☐ Intermediate ☐ Expert

**Salary Range:**

**Skills:**

**Job Mode:**  
☐ Onsite ☐ Hybrid ☐ Remote

**Experience:**  
☐ Beginner ☐ Intermediate ☐ Expert

**Salary Range:**


**Job Type:**  
☐ Day Shift ☐ Night Shift ☐ Contract


**Location:**


Submit





## Applicant Tracking


 Job Portal

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HR in Google


### All Applicants


Search Applicants


All Statuses ▾


Sr. No	Name	Contact No	Email	Status	View Application
1	Samyukta Nair	1234566789	e21@somaiya.edu	Review	<div>View</div>


## Candidate Profile


 Job Portal

 Dashboard


 Messages

 Company Profile

 All Applicants

 Job Listing

Logout

 Admin  
HR in Google

### Candidate Summary

Accept

Reject

**Samyukta Nair**  
Backend Developer  
Female

**About**  
I'm a backend developer with over 3 years of experience. I have a deep understanding of software principles and architecture...  
Github.com

