A Report

On

Recruitment and Applicant Tracking Application

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ABSTRACT

The Applicant Tracking System (ATS) project aims to develop a comprehensive software solution that automates and optimizes the recruitment process. This system will streamline job postings, manage applications, and track candidate progress through a centralized platform. By automating tasks such as resume screening and interview scheduling, the ATS reduces administrative burdens and enhances efficiency. It provides a user-friendly interface for candidates, improving their application experience and communication with recruiters. Additionally, the system offers valuable analytics to refine recruitment strategies and ensures compliance with data privacy regulations to safeguard applicant information. Ultimately, the ATS project seeks to transform the hiring process into a more effective, transparent, and efficient operation.

CHAPTER-1

INTRODUCTION

The Applicant Tracking System (ATS) Full Stack Project is designed to revolutionize the recruitment process by creating a robust, end-to-end software solution that caters to the needs of both recruiters and candidates. In today's competitive job market, efficient and effective recruitment is crucial for organizational success. Traditional hiring methods often involve time-consuming manual processes, lack of centralized data management, and limited communication capabilities, which can hinder the ability to attract and retain top talent.

This project leverages modern full stack development technologies to build a comprehensive ATS that automates and optimizes various aspects of the recruitment workflow. By integrating front-end and back-end systems seamlessly, the ATS provides a cohesive platform for managing job postings, processing applications, tracking candidate progress, and facilitating communication between all parties involved in the hiring process. Key features include automated resume screening, interview scheduling, candidate filtering, and detailed analytics, all designed to enhance efficiency and decision-making.

The ATS also prioritizes user experience, offering an intuitive interface for candidates to apply for positions and track their application status, while ensuring recruiters can easily access and manage applicant data. Compliance with data privacy regulations and robust security measures are fundamental components of the system, ensuring the protection of sensitive information. The ultimate goal of the ATS Full Stack Project is to streamline the hiring process, improve recruitment outcomes, and provide a superior experience for both recruiters and candidates, thereby enabling organizations to attract and secure the best talent in a highly competitive environment.

1.1 OBJECTIVE OF THE PROJECT

The main objectives of the Applicant Tracking System (ATS) project are to automate and streamline the recruitment process, enhance candidate experience through user-friendly interfaces, and centralize applicant data for efficient management and analytics. The system aims to improve efficiency by automating tasks like resume screening and interview scheduling, while ensuring compliance with data privacy regulations to protect applicant information. Additionally, it seeks to facilitate collaboration among recruiters and provide insights to optimize recruitment strategies.

CHAPTER-2
TECNOLOGY USED

HTML (Hypertext Markup Language)

HTML is the foundational markup language used to structure the content of web pages. In this ATS project, HTML is essential for creating the user interface, which includes the layout of job listings, application forms, candidate dashboards, and recruiter management panels. HTML ensures that all elements are correctly formatted and displayed, providing a clear and accessible structure for users to interact with. By using semantic HTML tags, the project also enhances accessibility and SEO, making the system more user-friendly and discoverable.

CSS (Cascading Style Sheets)

CSS is employed to style and design the HTML elements, ensuring the ATS is visually appealing and responsive across different devices and screen sizes. By using CSS, the project achieves a consistent look and feel throughout the application, making the user experience more intuitive and engaging. CSS techniques such as Flexbox, Grid, and media queries are utilized to create a responsive design that adapts seamlessly to desktops, tablets, and mobile devices. Additionally, CSS animations and transitions enhance the visual interactivity, providing a more dynamic and attractive user interface.

PHP (Hypertext Preprocessor)

PHP is a powerful server-side scripting language used to build the back-end logic of the ATS. It handles the dynamic content generation and server-side operations, such as processing job applications, managing user authentication, and handling session management. PHP scripts interact with the database to perform CRUD (Create, Read, Update, Delete) operations, ensuring that data is efficiently stored and

retrieved. In this project, PHP is also used to implement security measures, such as input validation and user authentication, to protect sensitive information and maintain data integrity.

SQL (Structured Query Language)

SQL is the standard language for managing and manipulating relational databases. In this ATS project, SQL is used to interact with the database, which stores all essential data such as user information, job postings, applications, and candidate statuses. SQL queries are crafted to retrieve, insert, update, and delete data efficiently, ensuring the system can handle large volumes of data and complex queries. The use of SQL ensures that the database operations are performed securely and reliably, supporting the core functionalities of the ATS. Additionally, SQL is used to generate reports and analytics, providing insights into recruitment metrics and helping to optimize the hiring process.

CHAPTER-3
IMPLEMENTATION

Development Environment

- **Web Server**: XAMPP
- **Code Editor**: Visual Studio Code (VS Code)
- **Database**: MySQL (comes bundled with XAMPP)

CODE:

project@1

```
<?php
   session_start();

   include("db.php");

   if($_SERVER['REQUEST_METHOD'] == 'POST')
   {
      $Surname = $_post['Surname']
      $First Name = $_post['First Name']
      $Second Name = $_post['Second Name']
      $Primary Email = $_post['Primary Email']
      $Secondary Email = $_post['Secondary Email']
      $Primary Contact Number = $_post['Primary Contact Number']
      $Secondary Contact Number = $_post['Secondary Contact Number']
      $10th % = $_post['10th %']
      $Inter/Diploma% = $_post['Inter/Diploma%']
      $B.Tech CGPA = $_post['B.Tech CGPA']
      $Qualification = $_post['Qualification']
      $Gender = $_post['Gender']
```

```
$Date of Birth = $_post['Date of Birth']
$Passed Out Year = $_post['Passed Out Year']
$Any Certification = $_post['Any Certification']
$Current City = $_post['Current City']
$State = $_post['State']
$Resume = $_post['Resume']
$Email = $_post['Email']
$Password = $_post['Password']

if(!empty($Emai) && !empty($Password) && !is_numeric($Email))
{
   $query = "insert into form (Surname, First Name, Second Name, Primary Email,
Secondary Email, Primary Contact Number, Secondary Contact Number, 10th %,
Inter/Diploma%, B.Tech CGPA,  Qualification, Gender, Date of Birth, Passed Out Year,
Any Certification, Current City, State, Select Job, Resume, Email, Password ) values
('$Surname', '$First Name', '$Second Name', '$Primary Email', '$Secondary Email',
'$Primary Contact Number', ' $Secondary Contact Number', '$10th %', '$Inter/Diploma%',
'$B.Tech CGPA', '$Qualification', '$Gender', '$Date of Birth', '$Passed Out Year', '$Any
Certification', '$Current City', '$State', '$Resume', '$Email', ' $Password' )"

   mysqli_query($con, $query);

   echo "<script type='text/javascript'> alert('successfully Register')</script>";
}
else
{
   echo "<script type='text/javascript'> alert('Please Enter Some valid
Information')</script>";
}

  }
?>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Recruitment and Applicant Tracking</title>
    <style>
        /* Basic CSS styling */
        body {
            font-family: Arial, sans-serif;
            margin: 0;
            padding: 0;
            background-color: #f5f5f5;
        }
        .container {
            max-width: 850px;
            margin: 20px auto;
            background-color: #d3d6a9;
            padding: 20px;
            border-radius: 5px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
        form {
            margin-bottom: 20px;
        }
        input[type="text"], input[type="email"], input[type="date"], select {
            width: 100%;
            padding: 10px;
            margin: 5px 0;
            border: 1px solid #ccc;
            border-radius: 3px;
            box-sizing: border-box;
        }
        input[type="submit"] {
```

```
            background-color: #eef2ef;
            color: #0a0a0a;
            padding: 10px 20px;
            border: none;
            border-radius: 3px;
            cursor: pointer;
        }
        input[type="submit"]:hover {
            background-color: #f13232;
        }
        table {
            width: 100%;
            border-collapse: collapse;
        }
        th, td {
            padding: 8px;
            text-align: left;
            border-bottom: 1px solid #ddd;
        }
        th {
            background-color: #f2f2f2;
        }
        .apply-link {
            color: #c81313;
            text-decoration: none;
        }
        .apply-link:hover {
            text-decoration: underline;
        }
    </style>
</head>
<body>
    <div class="container">
        <h0>COAPPS JOB HIRING</h0>
```

```
    <h1>Job Listings</h1>
    <table>
      <thead>
        <tr>
          <th>Job Title</th>
          <th>Description</th>
          <th>Package</th>
          <th>Apply</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td>Python Full Stack Engineer</td>
          <td>Seeking a Python Full Stack Engineer to develop scalable web
applications and APIs.</td>
          <td>4 LPA</td>
          <td><a href="index.html" class="apply-link">Apply Now</a></td>

        </tr>
        <tr>
          <td>Design Engineer</td>
          <td>Seeking a Design Engineer to create and develop innovative product
designs and specifications.</td>
          <td>5 LPA</td>
          <td><a href="index.html" class="apply-link">Apply Now</a></td>

        </tr>
        <tr>
          <td>Data Entry</td>
          <td>Looking for a Data Entry Specialist to accurately input and manage data
in digital systems.</td>
          <td>3 LPA</td>
          <td><a href="index.html?job=Data%20Entry" class="apply-link">Apply
Now</a></td>
```

```
        </tr>
    </tbody>
</table>

<h2>Apply for a Job</h2>
<form id="applicationForm">

    <label for="surname">Surname</label>
    <input type="text" id="surname" name="surname" required>

    <label for="firstname">First Name</label>
    <input type="text" id="firstname" name="firstname" required>

    <label for="secondname">Second Name</label>
    <input type="text" id="secondname" name="secondname" required>

    <label for="primaryEmail">Primary Email</label>
    <input type="email" id="primaryEmail" name="primaryEmail" required>

    <label for="secondaryEmail">Secondary Email</label>
    <input type="email" id="secondaryEmail" name="secondaryEmail">

    <label for="primaryContact">Primary Contact Number</label>
    <input type="text" id="primaryContact" name="primaryContact" required>

    <label for="secondaryContact">Secondary Contact Number</label>
    <input type="text" id="secondaryContact" name="secondaryContact">

    <label for="tenthPercent">10th %</label>
    <input type="text" id="tenthPercent" name="tenthPercent" required>

    <label for="interDiploma">Inter/Diploma%</label>
    <input type="text" id="interDiploma" name="interDiploma" required>
```

```
<label for="btechCgpa">B.Tech CGPA</label>
<input type="text" id="btechCgpa" name="btechCgpa" required>

<label for="qualification">Qualification</label>
<select id="qualification" name="qualification" required>
   <option value="">Select a Branch...</option>
   <option value="ECE">ECE</option>
   <option value="CSE">CSE</option>
   <option value="EEE">EEE</option>
</select>

<label for="gender">Gender</label>
<select id="gender" name="gender" required>
   <option value="">Select a Gender...</option>
   <option value="Male">Male</option>
   <option value="Female">Female</option>
   <option value="Other">Other</option>
</select>

<label for="dob">Date of Birth</label>
<input type="date" id="dob" name="dob" required>

<label for="passedOutYear">Passed Out Year</label>
<select id="passedOutYear" name="passedOutYear" required>
   <option value="">Select a Year...</option>
   <option value="2024">2024</option>
   <option value="2023">2023</option>
</select>

<label for="certification">Any Certification</label>
<input type="text" id="certification" name="certification">

<label for="currentCity">Current City</label>
<input type="text" id="currentCity" name="currentCity" required>
```

```
        <label for="state">State</label>
        <input type="text" id="state" name="state" required>

        <label for="job">Select Job</label>
        <select id="job" name="job" required>
          <option value="">Select a job...</option>
          <option value="Python Full Stack Engineer">Python Full Stack
Engineer</option>
          <option value="Design Engineer">Design Engineer</option>
          <option value="Data Entry">Data Entry</option>
        </select>

        <form id="resumeForm" enctype="multipart/form-data">
          <label for="resume">Select Resume</label>
          <hr>
          <input type="file" id="resume" name="resume" accept=".pdf,.doc,.docx"
required>
        </select>
        <hr>
        SignUp
      <hr>
        <label for="Email">Email</label>
        <input type="email" id="Email" name="Email" required>

        <label for="Password">Password</label>
        <input type="text" id="Password" name="Password" required>
        <hr>
        <input type="submit" value="Submit">
      </form>
      <p>By clicking the sign up button, you agree to our<br>
        <a href="">Terms and conditions</a> and <a href="#">policy privacy</a>
        </p>
        <p>Already have an account? <a href="login.php">Login Here</a></p>
```

```
</div>
```

login.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Recruitment and Applicant Tracking</title>
    <style>
      body {
          font-family: Arial, sans-serif;
          margin: 0;
          padding: 0;
          background-color: #d3d6a9;
      }
      .container  {
          max-width: 850px;
          margin: 20px auto;
          background-color: black;
          padding: 20px;
          border-radius: 5px;
          box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
      }
      form {
          margin-bottom: 20px;
      }
      input[type="email"],
      <hr>
       input[type="password"],
       select {
          width: 50%;
          padding: 10px;
```

```
    margin: 5px 0;
    border: 1px solid #6b6531;
    border-radius: 3px;
    box-sizing: border-box;
}

input[type="submit"] {
    background-color: #eef2ef;
    color: #773030;
    padding: 10px 20px;
    border: none;
    border-radius: 3px;
    cursor: pointer;
}
input[type="submit"]:hover {
    background-color: #359679;
}
table {
    width: 60%;
    border-collapse: collapse;
}
th, td {
    padding: 6px;
    text-align: left;
    border-bottom: 1px solid #ddd;
}
th {
    background-color: #f2f2f2;
}
.apply-link {
    color: #c81313;
    text-decoration: none;
}
.apply-link:hover {
```

```
        text-decoration: underline;
      }
   </style>
</head>
<body>
       <h2>coapps login</h2>
      <form id="applicationForm">

         <label for="Email">Email</label>
         <input type="email" id="Email" name="Email" required>

         <label for="Password">Password</label>
         <input type="Password" id="Password" name="Password" required>

         <input type="submit" value="Submit">
      </form>
      <p>Not have an account?<a href="project @1.php">Sign up here</a></p>
</body>
```

db.php

```
<?php
   $can = mysqli_connect("localhost", "root","","register") or die(mysqli_error());
```

CHAPTER-4

RESULTS

COAPPS JOB HIRING

Job Listings

Job Title	Description	Package	Apply
Python Full Stack Engineer	Seeking a Python Full Stack Engineer to develop scalable web applications and APIs.	4 LPA	Apply Now
Design Engineer	Seeking a Design Engineer to create and develop innovative product designs and specifications.	5 LPA	Apply Now
Data Entry	Looking for a Data Entry Specialist to accurately input and manage data in digital systems.	3 LPA	Apply Now

Apply for a Job

Surname

First Name

Second Name

Primary Email

Secondary Email

Primary Contact Number

Secondary Contact Number

10th %

Inter/Diploma%

B.Tech CGPA

Qualification

Select a Branch...

Gender

Select a Gender...

Date of Birth

mm/dd/yyyy

Passed Out Year

Select a Year...

Any Certification

Current City

State

Select Job

Select a job...

Select Resume

Choose File No file chosen

SignUp

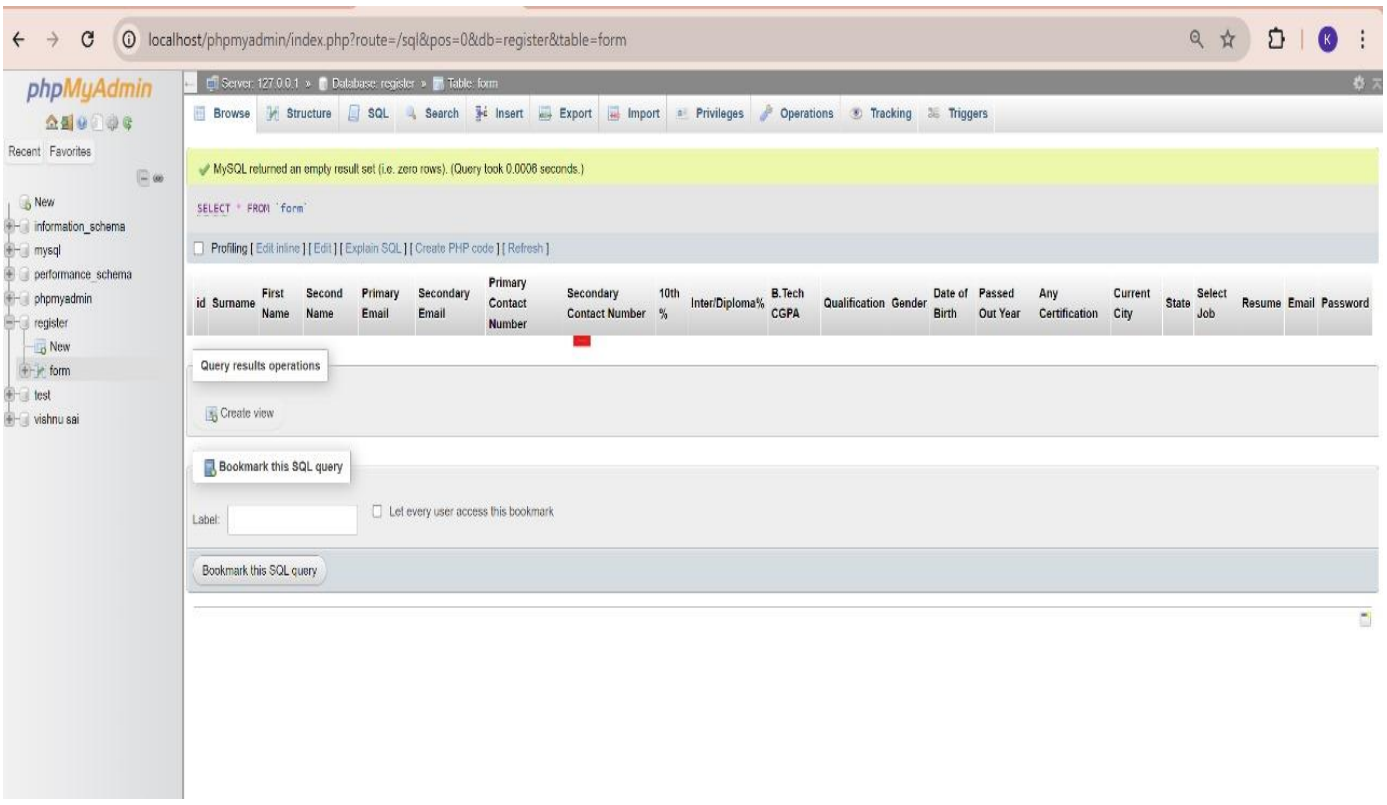
Email

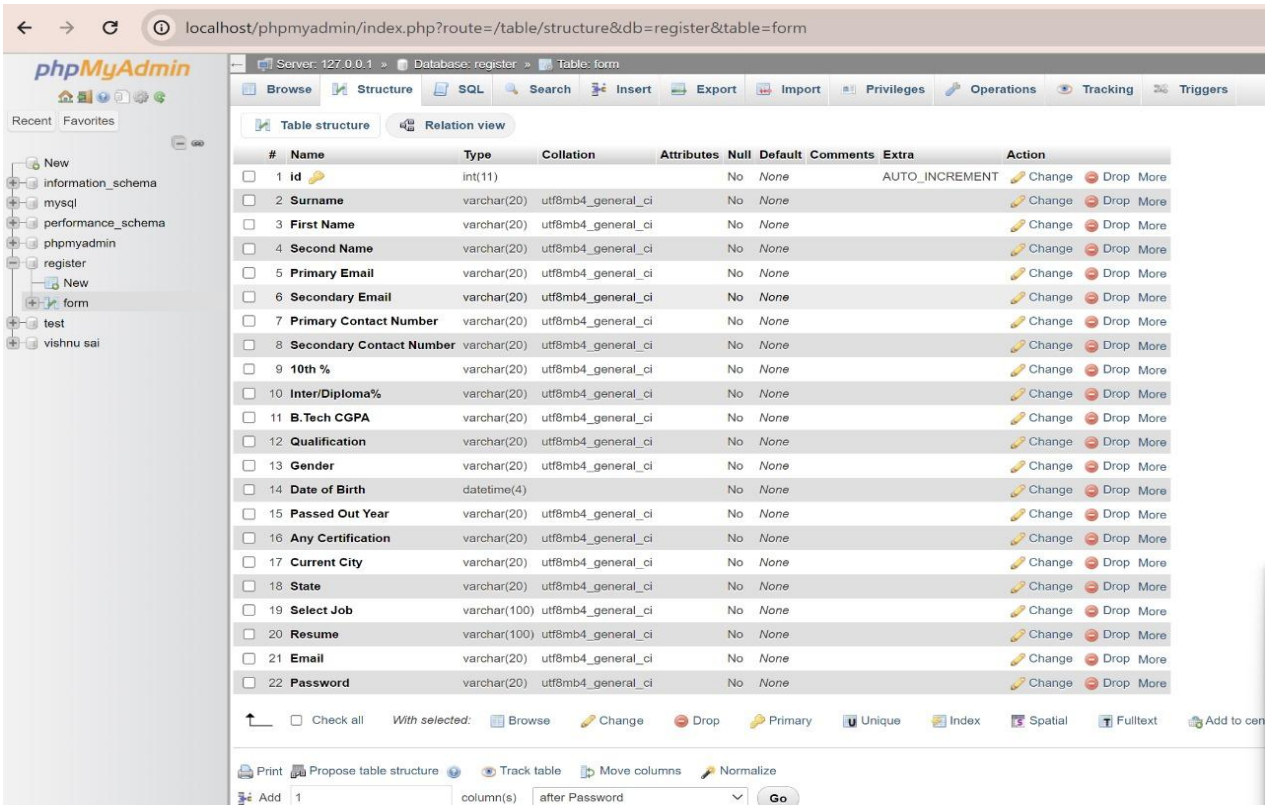
Password

Submit

By clicking the sign up button, you agree to our
Terms and conditions and policy privacy

Already have an account? Login Here




localhost/phpmyadmin/index.php?route=/table/structure&db=register&table=form
phpMyAdmin
Recent Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
register
New
form
test
vishnu sai
Server: 127.0.0.1 » Database: register » Table: form
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers
Table structure Relation view
Name Type Collation Attributes Null Default Comments Extra Action
1 id int(11) No None AUTO_INCREMENT Change Drop More
2 Surname varchar(20) utf8mb4_general_ci No None Change Drop More
3 First Name varchar(20) utf8mb4_general_ci No None Change Drop More
4 Second Name varchar(20) utf8mb4_general_ci No None Change Drop More
5 Primary Email varchar(20) utf8mb4_general_ci No None Change Drop More
6 Secondary Email varchar(20) utf8mb4_general_ci No None Change Drop More
7 Primary Contact Number varchar(20) utf8mb4_general_ci No None Change Drop More
8 Secondary Contact Number varchar(20) utf8mb4_general_ci No None Change Drop More
9 10th % varchar(20) utf8mb4_general_ci No None Change Drop More
10 Inter/Diploma% varchar(20) utf8mb4_general_ci No None Change Drop More
11 B.Tech CGPA varchar(20) utf8mb4_general_ci No None Change Drop More
12 Qualification varchar(20) utf8mb4_general_ci No None Change Drop More
13 Gender varchar(20) utf8mb4_general_ci No None Change Drop More
14 Date of Birth datetime(4) No None Change Drop More
15 Passed Out Year varchar(20) utf8mb4_general_ci No None Change Drop More
16 Any Certification varchar(20) utf8mb4_general_ci No None Change Drop More
17 Current City varchar(20) utf8mb4_general_ci No None Change Drop More
18 State varchar(20) utf8mb4_general_ci No None Change Drop More
19 Select Job varchar(100) utf8mb4_general_ci No None Change Drop More
20 Resume varchar(100) utf8mb4_general_ci No None Change Drop More
21 Email varchar(20) utf8mb4_general_ci No None Change Drop More
22 Password varchar(20) utf8mb4_general_ci No None Change Drop More
Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext
Print Propose table structure Track table Move columns Normalize
Add 1 column(s) after Password Go

CHAPTER -5
CONCLUSION

The ATS project serves as a foundational example of how web technologies can be leveraged to build functional and interactive web applications. By integrating front-end and back-end technologies, the project showcases the full-stack development process, providing a practical solution to manage job postings and applicant tracking. The project not only meets the current requirements but also lays the groundwork for future enhancements, ensuring scalability and adaptability to evolving needs.