

**FALL SEMESTER 2021-22**  
**CSE3002 INTERNET AND WEB PROGRAMMING**

**SLOT : G2**

**Campus Recruitment Portal**

Submitted By -

Sriyog Yogesh Dixit(19BCE2329)

Mohit Nandargi(19BCE0585)

Balaji PJ(19BCE2306)

**Under the guidance of**  
**Prof. Arun Kumar G.**  
**SCOPE, VIT, Vellore**



**VIT<sup>®</sup>**  
**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)

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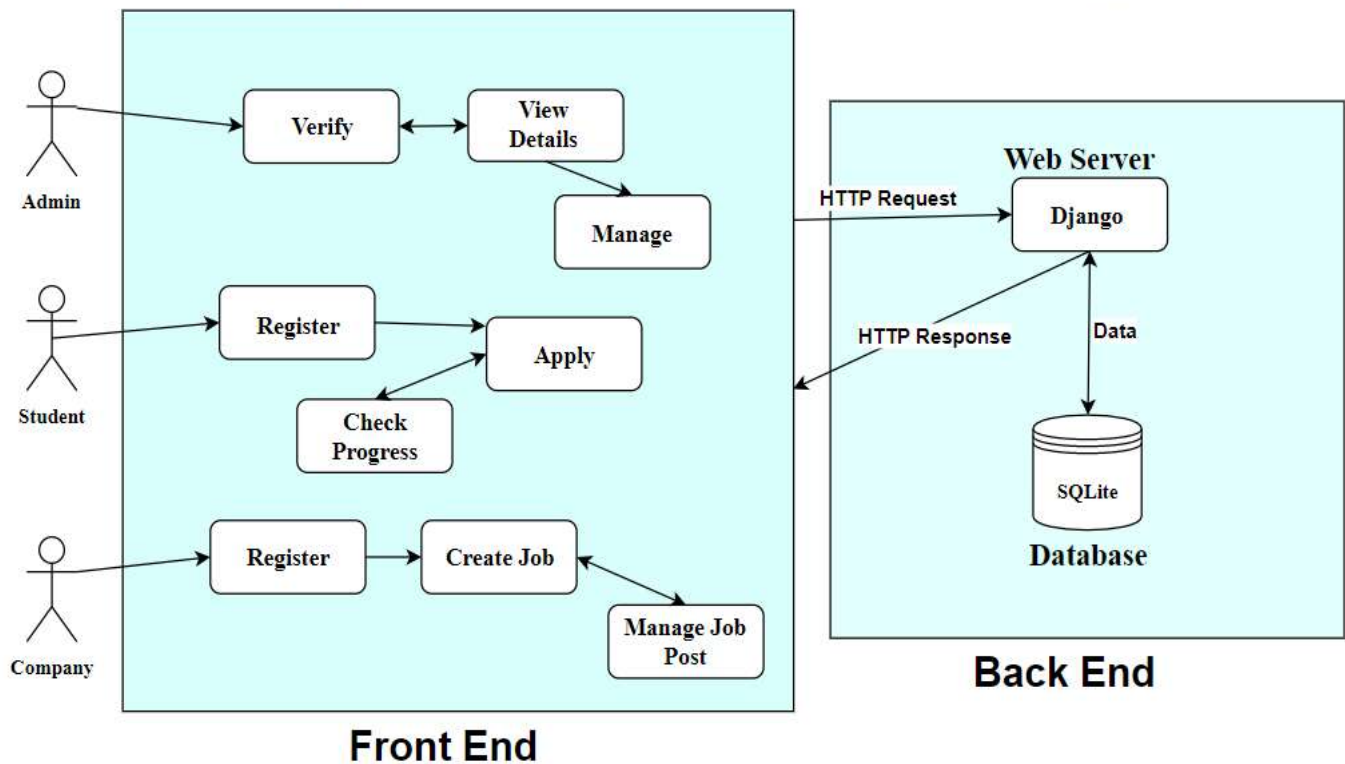
## **ABSTRACT**

Our project Campus Recruitment Portal is a web based application which is intended to be used by both students and Companies to facilitate the process of hiring/placements. In the developing world there are various emerging companies who are in need of resources and they find it difficult to communicate regarding their needs to the aspiring students and this leads to a void which creates unemployment.

To overcome this, we have planned to build a web portal which would mainly simplify the recruitment process. This would act as a bridge between the companies and the aspiring and skillful students. This portal mainly has the details of the students and the companies can view their profiles and select them according to their needs. This creates a centralized system so that the companies and students are up to date with the latest opportunities. This system is mainly built for the Placement and Training cell in campus for a systematic and automated process of placement hiring in the campus. This would give the admin/placement cell the authority to verify candidates and the companies and has an overall authority over the system. The candidates can provide their details as well as apply for the eligible and interested post in the respective companies. The companies can provide their vacancy details in the portal and can also view the details of the candidates enrolled and process them.

## ARCHITECTURE DIAGRAM

### Campus Recruitment Portal Architecture Diagram



There will be 3 end users of our portal each having different functionalities which are handled by the Django server and storing the data in the SQLite. The detailed functionalities are mentioned in the modules. The Admin in our portal will be the College Placement Cell that will control the process of recruitment using the portal.

## METHODOLOGY

We plan to build our website with HTML5,CSS3,JavaScript for Frontend and Django with Sqlite as the database for Backend development. We are planning to divide this portal into three main components namely :-

- a. Company Portal** - This is a dynamic portal for the companies which allows them to register/login and then post for different jobs visible to the students. There will be a dashboard like interface for the companies to manage the incoming applications. They will be able to reject/accept various applications.The companies can even filter students according to their needs such as cgpa, etc . If the company has accepted any student who is eligible they will be sending a confirmation email provided by the student.
- b. Admin Panel** - This panel will provide the admin with ability to verify a company as well as the students applying to various jobs on the portal. They will also have a dashboard where they can manage profiles on the portal, and also have the authority to delete any post or delete any student which is not genuine.
- c. Candidates Panel-** This panel will mainly be oriented with the candidates enrolling for the recruitment process.There will be a profile panel where candidates will add their details and also have a page where they can see posts available by the respective companies and can apply for it.The candidates will also be able to change their profile details such as name, email, mobile number etc.The students will receive an email if he/she has been selected to the applied company they will receive a confirmation email.

## **MODULES**

To get more idea in detail of each modules in the portal the functionality have been mentioned below

### **1. Admin/Placement Cell**

- 1.1. Login page for admin
- 1.2. Verify student and company profiles
- 1.3. Overview the details of registered students and companies
- 1.4. Delete and manage irrelevant details

### **2. Students/Candidates**

- 2.1. Registration and login for students
- 2.2. Build and update their profile
- 2.3. Apply for jobs
- 2.4. Check progress for applied jobs

### **3. Company**

- 3.1. Registration and login for companies
- 3.2. Create job posts
- 3.3. Edit and manage job posts
- 3.4. View Applicants
- 3.5. Select students by viewing applications and sending selection mail to the students.

## CODE

The following link can be accessed to view the code of the portal-

[https://drive.google.com/drive/folders/1Ry5ubS8rFWtjgV-\\_Liz4BslhGhi71dth?usp=sharing](https://drive.google.com/drive/folders/1Ry5ubS8rFWtjgV-_Liz4BslhGhi71dth?usp=sharing)

We have also hosted the website on a free web server , Heroku to access the site publicly. The following is the URL-

<http://campus-recruitment-vit.herokuapp.com>

## TESTING

We have performed testing on various modules of our Campus Recruitment Portal to verify if the individual modules work as we had planned before we had hosted the site. Unit testing has been performed on Company module and Student module in our portal-

### 1. Company Module Unit Tests

Website: Campus Recruitment Portal	
Test Case ID: 1	Test Designed by: Sriyog Dixit and Mohit Nandargi
Test Priority (Low/Medium/High): High	Test Design date: 25/11/2021
Module Name: Company	Test Executed by: Mohit Nandargi
Test Title: Registering Company and Testing Functionalities	Test Executed date: 28/11/2021
Description: Registration of Company and Posting job post and selection of students.	
Pre-Conditions: Company should be authenticated	



### 1.1. Test Case

Step	Test Steps	Test Data	Expected Result	Actual Result	Status
1.	Register Company	Details invalid	Redirect to Registration	Redirect to Registration with error message	Pass
2.	Register Company	Details correct	Redirect to home page with login details	Company registered.Redirect to home page with login details	Pass
3.	Company Dashboard	Login successful and access functionalities	Can access all the functionalities	Access all the functionalities	Pass

### 1.2. Test Case

Step	Test Steps	Test Data	Expected Result	Actual Result	Status
1.	Post Vacancy	Create Job ID with other information related to post	Create a Job Position and visible to students	Created successfully and available to students.	Pass
2.	Update Vacancy	Change details by giving the Job ID and changes in position	Changes in the respective Job Position	Changed the data of the selected Job ID	Pass
3.	Delete Vacancy	Select Job ID to delete	Delete the Job Position from the database	Deleted Job Position from the Company Position	Pass

### 1.3. Test Case

Step	Test Steps	Test Data	Expected Result	Actual Result	Status
1.	View Vacancies	None	Display all the Job position of the company	Displayed the Job Position with details in a table.	Pass
2.	Update Details	Change details of the Company	Changes in the Details of Company	Changed the data of the Company	Pass
3.	Select Students	Give Job ID and select student for the Job Position with filters	Display Details of students applied and option to send mail for selection	Displayed details of students applied and successful sending of mail for selection	Pass

## 2. Student Module Unit Tests

Website: Campus Recruitment Portal	
Test Case ID: 2	Test Designed by: Balaji PJ
Test Priority (Low/Medium/High): High	Test Design date: 30/11/2021
Module Name: Student	Test Executed by: Sriyog Dixit
Test Title: Registering student and applying for a Job	Test Executed date: 2/12/2021
Description: Check logging in,signup functionality and other test functionalities	

Pre-Conditions: Student should be authenticated

### 2.1. Test Case

Step	Test Steps	Test Data	Expected Result	Actual Result	Status
1.	Register student	Incorrect details	Redirect to registration	Redirect to Registration with error message	Pass
2.	Register student	Correct details	Redirect to home page with login details	Student registered. Redirect to home page with login details	Pass
3.	Student dashboard	Login successful and access functionalities	Can access all the functionalities	Access all the functionalities	Pass

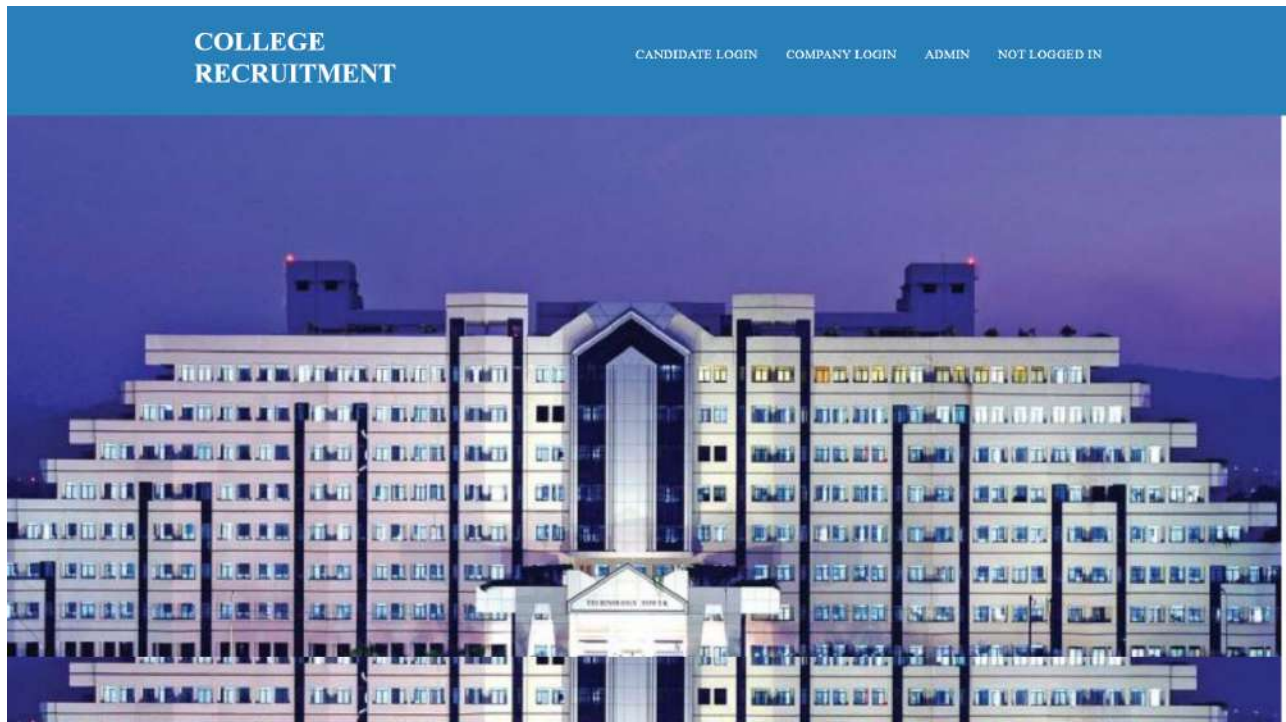
### 2.2. Test Case

Step	Test Steps	Test Data	Expected Result	Actual Result	Status
1.	View profile	None	Display all the profile details for student	Displayed the profile with details in a table.	Pass
2.	Update profile	Changed details for profile	Changes in the Details of	Changed the data of the	Pass

			Student	Student	
3.	Apply for job	Select company of your choice	Display Details of filtered company	Displayed details of the company after applying filters.	Pass

## RESULT

With the development of the website we have deployed the site on a free web server and the following are the screenshots of site with working-



WELCOME TO THE  
PLACEMENT PORTAL

VISITING COMPANIES



Amazon.com, Inc. is an American multinational technology company which focuses on e-commerce, cloud computing, digital streaming, and artificial intelligence. It is one of the Big Five companies in the U.S. information technology industry, along with Google, Apple, Meta, and Microsoft.



Microsoft Corporation is an American multinational technology corporation which produces computer software, consumer electronics, personal computers, and related services.



Google LLC is an American multinational technology company that specializes in Internet-related services and products, which include online advertising technologies, a search engine, cloud computing, software, and hardware.

*Home Page of our Portal*

STUDENT LOGIN

Username:

Password:

[New user? Register here](#)

*Student Login Page*

Student Registration

Username:   
Required. 150 characters or fewer. Letters, digits and @/./+/-/\_ only.

First name:   
\*required

Last name:   
\*required

Email:   
Required. Inform a valid email address.

Password:   

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation:   
Enter the same password as before, for verification.

*Student Registration Page*

Hello 19bce2329!

[View profile](#)

[Update Profile](#)

[Apply for company](#)

## *Student Dashboard*

### DASHBOARD

#### PROFILE

reg num:19BCE2329

name :Sriyog Dixit

father's name:Suresh

mother's name: Sarita

gender: male

place: Pune

branch: cse

Btech(cgpa): 9.2

10 class(cgpa): 10.0

12 class(cgpa): 100.0

certifications count: 12

internship: yes


languages: Hindi, English

sop: Third Year CSE Student at VIT, Vellore

dob: Jan. 20, 2001

## *Student Profile*

## Modify Details

Name:	<input type="text" value="Sriyog Dixit"/>
Phone number:	<input type="text" value="9898979898"/>
DOB	<input type="text" value="dd-mm-yyyy"/> 
Father's name	<input type="text" value="Suresh"/>
Mother's Name	<input type="text" value="Sarita"/>
Gender	<input type="radio"/> female <input checked="" type="radio"/> male <input type="radio"/> Others
Place	<input type="text" value="Pune"/>
Branch:	<input type="text" value="cse"/>
Class 10 CGPA	<input type="text" value="10.0"/>
Class 12 Percentage	<input type="text" value="100.0"/>
B.Tech CGPA:	<input type="text" value="9.2"/>
Internship	<input type="text" value="yes"/>
Certification count	<input type="text" value="12"/>
languages	<input type="text" value="Hindi,English"/>
Email	<input type="text" value="sriyog.dixit@gmail.com"/>
Sop:	<div><div></div></div>
<input type="button" value="MODIFY"/>	

*Student Update Profile*

## APPLY FOR JOB!

MINIMUM SALARY:	<input type="text"/>	MAXIMUM BOND YEARS:	<input type="text"/>	<input type="button" value="SEARCH"/>
Company	Designation	Salary	Bond years	Apply
Appoury	Non-Tech	20000	2	<input type="button" value="APPLY"/>
Internet_not_Web_Programming	Review 3	100000	1	<input type="button" value="APPLY"/>
Mms	Dev Ops	150000	1	<input type="button" value="APPLY"/>
Appointer	Tech	250000	2	<input type="button" value="APPLY"/>

*Apply for Job*





*Applied Successfully for a Job*



Username:

Password:

[New user? Register here](#)

*Company Login Page*

## Company Registration

Username:	<input type="text"/>	Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.
Company name:	<input type="text"/>	*required
Est year:	<input type="text"/>	*required
Hr name:	<input type="text"/>	*required
Hr phn:	<input type="text"/>	*required
Headquarters:	<input type="text"/>	*required
About:	<input type="text"/>	*required
Type:	<input type="text" value="product"/>	
Email:	<input type="text"/>	Required. Inform a valid email address.
Password:	<input type="password"/>	<ul style="list-style-type: none"><li>Your password can't be too similar to your other personal information.</li><li>Your password must contain at least 8 characters.</li><li>Your password can't be a commonly used password.</li><li>Your password can't be entirely numeric.</li></ul>
Password confirmation:	<input type="password"/>	Enter the same password as before, for verification.
<input type="button" value="REGISTER"/>		

*Company Registration Page*

## DASHBOARD

<input type="button" value="Post vacancy"/>	<input type="button" value="Update vacancy"/>
<input type="button" value="Select students"/>	<input type="button" value="Update details"/>
<input type="button" value="Delete vacancy"/>	<input type="button" value="Posted vacancies"/>

*Company Dashboard*

## Post Vacancy

Job id:	<input type="text"/>	*required
Designation:	<input type="text"/>	*required
Salary:	<input type="text"/>	*required
Bond years:	<input type="text"/>	*required
Information technology:	<input type="text"/>	
Mech:	<input type="text"/>	
Civil:	<input type="text"/>	
Eee:	<input type="text"/>	
Ece:	<input type="text"/>	
Chemical:	<input type="text"/>	
Cse:	<input type="text"/>	
<input type="button" value="Submit"/>		

*Create a Job Position*

## Posted Vacancies

job id	Designation	Salary	Bond_years	IT	Mech	Civil	Ece	EEE	CSE	Chemical
12345	Software Engineer	1200000	3	yes	no	no	yes	no	yes	no
123456	HR Manager	800000	3	yes	yes	yes	yes	yes	yes	yes

*Posted Vacancy*

## Delete Vacancy

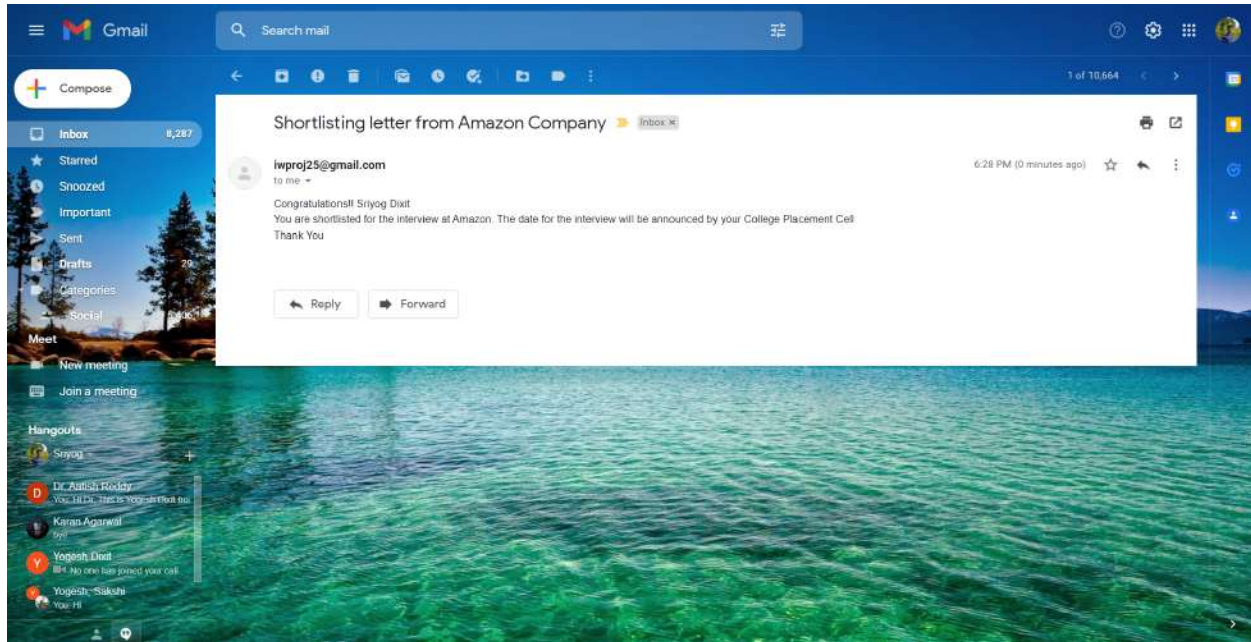
Job Id: *Delete Job Position*

## Select students

JOB ID: 10th cgpa: 12th percentage: Btech cgpa: 

Name	Gender	Branch	10th cgpa	12th percentage	Btech cgpa	Certifications count	Internship	SELECT
Sriyog Dixit	male	cse	10.0	100.0	9.2	12	yes	Select
Sriyog Dixit	male	cse	10.0	100.0	9.2	12	yes	Select
Mohit Nandargi	male	cse	10.0	97.0	8.9	2	yes	Select

*Select Student for a Job*



### *Mail after Company Selection*

## CONCLUSION

This Project has been a scope of improvement in the process of recruitment at College. The portal is a link between the companies and students without any third party intervention and help in employment and reduces the task of tracking student profiles from various sources like excel sheet or mail. This also helps the Placement cell of the college to track the drive with various companies and students from multiple branches and domains. This is the ready application for any such end user to go for a seamless and easy placement drive by selection of the student after viewing and mailing to the selected candidate. This project also gave us a deep learning of web programming language with both the Front-end and the Back-end development in a website. We also got to learn the hosting of a site on a server that is accessible over the internet.

## **FUTURE ENHANCEMENT**

This project has a huge scope of expansion, one such being adding a feature of Alumni of the college to track the students after the college placement for their achievements in their respective fields. Another feature that could help the company for recruitment is adding a call or meet feature in the site so that an interview can be scheduled for selection directly from the site. The feature that we are currently adding now is developing an Exam page for selection of a company. These features would definitely automate the process of hiring and also save resources and time for the company and the students and also will be easy for the placement cell to manage the Placement Drive.