

## 1. INTRODUCTION

NECN Placement Portal is a total management and informative system, which provides the up-to date information to all the students in the college. This helps the college to overcome the difficulty in keeping records of hundreds and thousands of students and searching for a student eligible for recruitment criteria from the whole thing. It helps in effective and timely utilization of the hardware and the software resources. The administrator will create the users and the users will use the accounts created by administrator. When the user enters into his respective page he can update his details, and the details are to be approved by the administrator. All the users have some common services like changing password, updating details, searching for details, checking the details, mailing to administrator, and reading the material uploaded by admin if the user is a student. Administrator has the services to add events and achievements and he can reply to the mails sent by users. He can upload materials, search for student details, and he has the right to approve the students. This package is developed in windows platform. The server-side programming language used is PHP. MySQL is used as backend database for the details to be stored.

### 1.1 Background:

Our college follows a pattern of sending job notifications through WhatsApp groups. When dealing with applying to job roles, our college sends application links to WhatsApp groups of all departments. To maintain data of students who has applied to particular companies, our college sends google forms separately so that they have all data about students that have applied and students that have not. There are no details of Alumni in case of any suggestions.

The notifications are sent through WhatsApp groups, when some people messages in between, it is leading to chaos in searching the links. The google forms are sent separately, sometimes students are unable to complete the total process due to number of links and google forms. Due to number of links in groups, there is a lot of confusion for students regarding which companies are already applied by the student and which are not.

Our placement portal is used to organize the job notifications so that the details might not be lost and it becomes easy to find. All the students are required to sign up so that the details can be stored in the database of the college. When the notification is released or posted by the management then an e-mail will be sent to the e-mail id of the student which was enrolled while

signing up. This portal is designed so that students can apply easily and college can have all the data regarding drives and data of students who have applied.

### **1.2 Scope of the project:**

The links are in the same portal finding the job links becomes very easy. Thereby students can easily apply to any job. Notifications are sent to the e-mail of the students so that the students can apply to the job role as soon as possible. Once a student has got the notification they can visit the website, login and apply to the job which has been released.

Students should also provide information regarding application such as whether they have applied or not by clicking the button to the placement cell. Whenever, the student clicks the 'Apply' button then the status gets changed to "Applied". Status regarding the application of the student is displayed so that student can categorize whether they have applied to the company or not.

Students can contact their Alumni as details of Alumni is displayed in portal. Also, resources such as materials, lecture videos, previous question papers, exam pattern, interview preparation tips and tricks will also be provided. Students can access the resources for their preparation to any company. College can get the details such as count of students applied, Alumni details. The student doesn't miss any notification and apply to the job role as soon as possible.

### **1.3 Motivation for the work:**

The main motivation under this NECN placement portal is to achieve ease in handling drives by college management and also for the students to easily apply to companies, access resources so that they can easily prepare for any companies and able to contact alumni for any suggestions. This portal is built to overcome all the chaos in finding drives which are sent in WhatsApp groups. With this portal, Coordinate will post all drives in the portal and students can login and apply to companies.

### **1.4 Aim:**

This placement portal is used to organize the job notifications so that the details might not be lost and it becomes easy to find. Through this portal, students can login and view different job releases and apply to those companies. All the students are required to sign up so that the details can be stored in the database of the college. When the notification is released or posted by the management then an e-mail will be sent to the email-id of the student which was enrolled while signing up. Students should also provide information regarding application

such as whether they have applied or not, by clicking the button to the placement cell. Students can also access the resources such as materials, lecture videos, previous question papers, exam pattern, interview preparation tips and tricks of every company which they have applied. If any student gets an offer letter or they have got selected in any company they should contact the coordinator who has posted that drive so that status gets changed to 'placed' and their details are entered in Alumni module so that juniors can view and contact for any guidance. There will be a list of Alumni on the portal as well. This helps management to categorize how many students are placed in every year. Having Alumni details present on the website will also help students to interact with them and contact them for any suggestions. This makes the work easy to find the Alumni.

### **1.5 Objectives:**

- The main objective of the NECN placement portal is to manage the details of student their technical skills, and details regarding placements.
- It manages all the information about job drives, student applications and all the stuff related to student.
- The purpose of the project is to build an application program to reduce the manual work for managing the Details of the Student.
- It tracks all the details about the things which are related to placements.
- It contains resources and alumni list to help students for preparations and guidance.
- It helps students to get ready for all the examinations.

## 2.LITERATURE SURVEY

[1] Santhosh Kumar H, Mrs. Srividhya V R, proposed this paper that describes the Automation of Training and Placement unit of AMCEC (AMC Engineering College). This paper is a web-based application for the Training and placement officers (TPO) of the college to manage the student information regarding placement.

[2] Aneena Felix, Ajeena Sunny, Angelin Saji in the year 2020 (May), proposed a paper that is titled as Placement Management System for Campus Recruitment.

[3] Anjali V proposed a Web-Based Placement Management System. It consumes less paperwork and it takes less time. This project is developed with PHP and MySQL.

[4] mobile centered learning system (ICCCA) It is a web-based application for the placement department that runs on the Windows operating system of the institution in order to put the information of the college's students in a database for corporations to utilize. A secure login makes their recruitment process easier. All the relevant data is stored in the system respecting the pupil information.

[5] Almahdi Alshareef, Ahmed Alkilany basically focuses on providing a simple interface for the easy collection and maintenance of all manner of student information. The creation and management of accurate, up-to- date information regarding student's academic careers is critical. A student information system deals with all kinds of data from enrollment to graduation, including program of study, skills, their application status. All these data need to be made available through an Online Interface.

[6] Vijay Yadav; Ujjwal Gewali; Suman Khatri;Shree Ram Rauniyar; Aman Shakya, "Smart Job Recruitment Automation: Bridging Industry and University", IEEE, 2019 Artificial Intelligence for Transforming Business and Society (AITB)

[7] Lu Shumin; Rao Yuan, "Research on Campus Recruitment management platform based on dynamic electronic commerce", The 2<sup>nd</sup> International Conference on Information Science and Engineering, IEEE, 17 January 2011.

[8] Ying Zhang; Xuanping Luo; Chen Zhong; Xinghua Cai; Xiang Gao, “Research on The Effectiveness of Campus Recruitment Based on Big Data”, IEEE, 2019 International Conference on Smart Grid and Electrical Automation.

This paper explains how to solve a problem that arose in an existing manual system. The search and update of student data and drives is a big issue in the current manual method. Also, filtering the list of students who has applied based on the criteria of the campus drive would be tough for the coordinator.

The suggested system comprises activities such as data registration, updating, and searching data from students. The coordinator and admin are the powerful users. Admin and coordinator have a greater number of priorities than the students. Students can register and access or amend their academic or personal information. The coordinator will also keep a list of students who have been placed.

## 3.SYSTEM ANALYSIS

### 3.1 System Study:

This system explains how to solve the problems which occur when the placement management is handled through WhatsApp. The students will upload all and resume and academics in the portal. The admin and coordinator get all the information about the students and can segregate the students and notify who are eligible for the drive students also get notified about the training and placement priorly. Registration, updating, and searching of student data are all included in the proposed system. The master users are the admin and coordinator. The administrator and coordinator have greater priorities than the rest of the users. Students can create an account and change or access their academic or personal information. The coordinator will keep track of the students who have been placed.

### 3.2 Existing System:

- Our college follows a pattern of sending job notifications through WhatsApp groups.
- When dealing with applying to job roles, our college sends application links to WhatsApp groups of all departments.
- To maintain data of students who has applied to companies, our college sends Google forms separately so that they have all data about students that have applied and students that have not.
- There are no details of Alumni in case of any suggestions.

#### 3.2.1 Disadvantages:

- The notifications are sent through WhatsApp groups, when some people messages in between, it is leading to chaos in searching the links.
- The google forms are sent separately, sometimes students are unable to complete the total process due to number of links and google forms.
- Due to number of links in groups, there is a lot of confusion for students regarding which companies are already applied by the student and which are not.

### 3.3 Proposed Methodology:

- Our placement portal is used to organize the job notifications so that the details might not be lost and it becomes easy to find.
- All the students are required to sign up so that the details can be stored in the database of the college.
- When the notification is released or posted by the management then an e-mail will be sent to the e-mail id of the student which was enrolled while signing up.
- The student does not miss any notification and apply to the job role as soon as possible.
- Once a student has got the notification they can visit the website, login and apply to the job which has been released.
- Students should also provide information regarding application such as whether they have applied or not by clicking the button to the placement cell.
- Whenever the student clicks the 'Apply' button then the status gets changed to "Applied".
- Resources such as materials, lecture videos, previous question papers, exam pattern, interview preparation tips and tricks will also be provided.
- If any student gets an offer letter or they have got selected in any company they should contact the coordinator who has posted that drive so that status gets changed to 'placed' and their details are entered in Alumni module so that juniors can view and contact for any guidance. There will be a list of Alumni on the portal as well.
- The management can categorize how many students are placed in every year.
- The Alumni details present on the website will also help students to interact with them and contact them for any suggestions. This makes the work easy to find the Alumni.

### 3.4 Software Environment:

Software environment is the term commonly used to refer to support an application. A software environment for a particular application could include the operating system, the database system, specific development tools or compiler.

#### 3.4.1 Functional Requirements:

The proposed application should notify the students who are eligible for the drive. The user gives all the details and admin approves students. After approval, whenever coordinator posts any drives, the student will get email notification. Also, students can view resources and

alumni details which are posted by coordinator. Admin posts any notices for students and coordinators.

### 3.4.2 Non-Functional Requirements:

1. **Usability:** This section includes all those requirements that effect usability.
  - We get response within seconds.
  - The software must have a simple, user-friendly interface so customers can save time and confusion.
2. **Reliable:** The system is more reliable because of the qualities that are inherited from the chosen platform PHP. The code built is more reliable.
3. **Supportability:** The system is designed to be the cross platform supportable. The system is supported on a wide range of hardware and any software platform. Hence it is extremely portable.

### 3.5 Input Design:

In an information system, input is the raw data that is processed to produce output.

Therefore, the quality of system input determines the quality of system output. Well-designed input forms and screens have following properties –

- It should serve specific purpose effectively such as storing, validating, and retrieving the information.
- The admin posts the notices whereas the coordinator posts the job releases as well as resources.
- It ensures sending notifications to e-mail of the users accurately.
- In this project, for registration the input is taken as student details in the registration form, e-mail id and password are taken as input for login page.

### 3.6 Output Design:

The design of output is the most important task of any system. During output design, developers identify the type of outputs needed, and consider the necessary output controls and prototype report layouts.



- Whenever a notice or a job is posted by admin or coordinator, the registered user has to get a notification to their registered e-mail.
- Student should be able to apply for the job releases and be able to access the resources.

### **3.7 System Requirements:**

#### **3.6.1 Software Requirements:**

- Operating system : Windows
- Front end : HTML, CSS, JavaScript, AJAX, Bootstrap
- Database : MySQL
- Server-side programming : PHP

#### **3.6.2 Hardware Requirements:**

- Processor : i3 or more
- RAM : 4 GB or more

## 4. SYSTEM DESIGN

### 4.1. Architecture Diagram:

The architecture diagram of the NECN Placement Portal is as follows. The student details are stored in the database. admin collects the details of the students from the database. The admin sends the notice through an e-mail to the students. The coordinator collects the details from the company and uploads the details to the students. Coordinator also uploads resources so that students can access the resources.

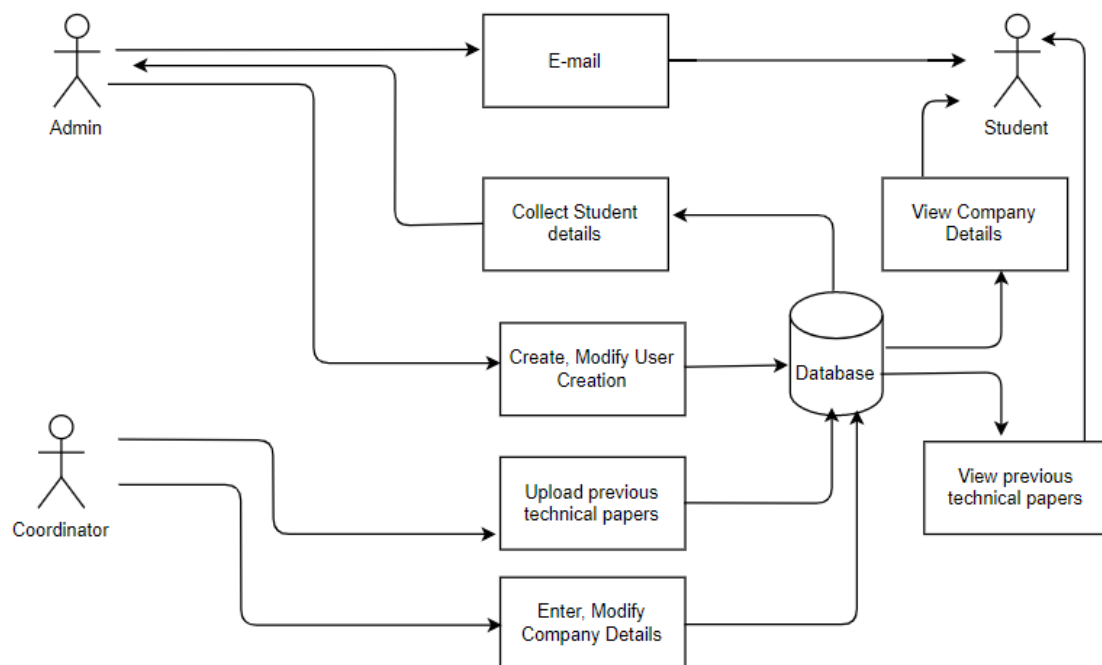


Figure 4.1: Architecture Diagram

### 4.2 Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the amount of the system requirement graphically. It can be manual, automated, or a combination of both.

It shows how data enters and leaves the system, what changes the information, and where data is stored. The objective of a DFD is to show the scope and boundaries of a system. It may be used as a part in the order that acts as a starting point for redesigning a system. The DFD is also called as a data flow graph.

The components of below DFD are,

- Student Details Management
- Coordinator Details Management
- Campus Drive Management
- Alumni Details Management
- Resources Management

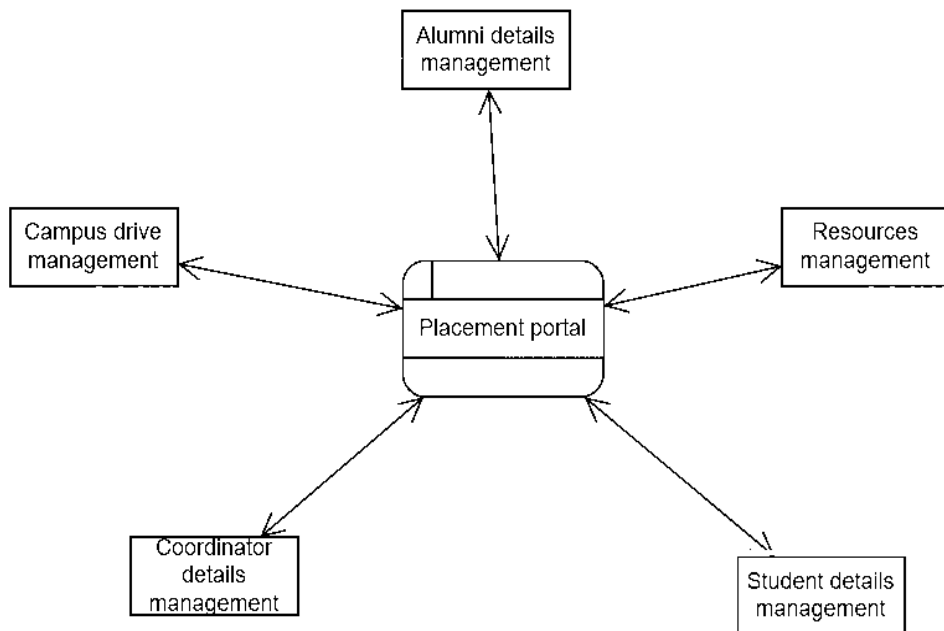


Figure 4.2: Data Flow Diagram

### 4.3 UML Diagrams:

UML stands for Unified Modeling Language is a standardized general purpose modeling language in the field of object-oriented software engineering. The standard is managed, and was created by, the Object Management Group.

The main goal of UML is for creating models of object-oriented computer software. It is a way to visually represent the architecture, design, and implementation of complex software systems.

### 4.3.1 Use case diagram:

The diagrams show about the admin. The admin act as a actor. Admin will do various tasks like Login to the portal, allow permission for the students after they register, Post drives, Update drives, create credentials, logout from portal. All the data given by the admin will be stored in the data base. The following figure shows about the use case of admin.

#### 4.3.1.1 Admin:

The below diagram shows about the Admin. The actors are Admin and Database. The admin can perform various tasks like login to the portal, allow permission for student and coordinator, send notice, update drive, view details, logout from portal. All the data is fetched from the database. The following figure shows about the use case of student.

**Actors** : Admin, Database

**Use cases** : Login, Allow Permissions, Send Notice, Update Drive, View Details, Logout

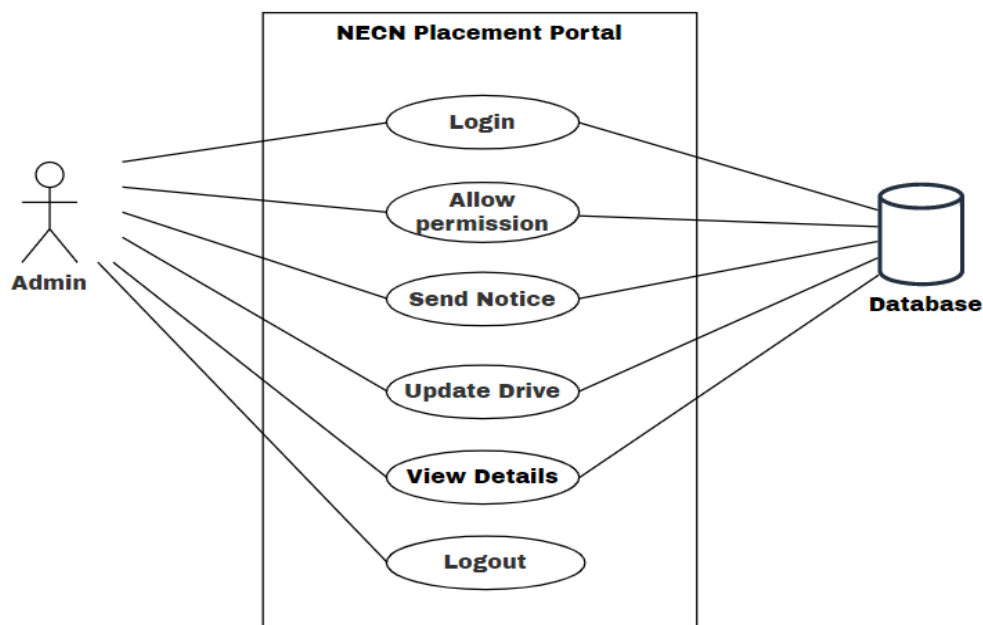


Figure 4.3.1.1: Use Case Diagram of Admin

### 4.3.1.2 Student:

The below diagram shows about the student. The actor acts as a student. The students can perform various tasks like register if they are new user, login to the portal, apply for the jobs, access resources, logout from portal. All the data given by the student will be stored in to the database. The following figure shows about the use case of student.

**Actors** : Student, Database

**Use cases** : Register, Login, Edit Profile, View Applications, Apply to drives, Access Resources, Logout.

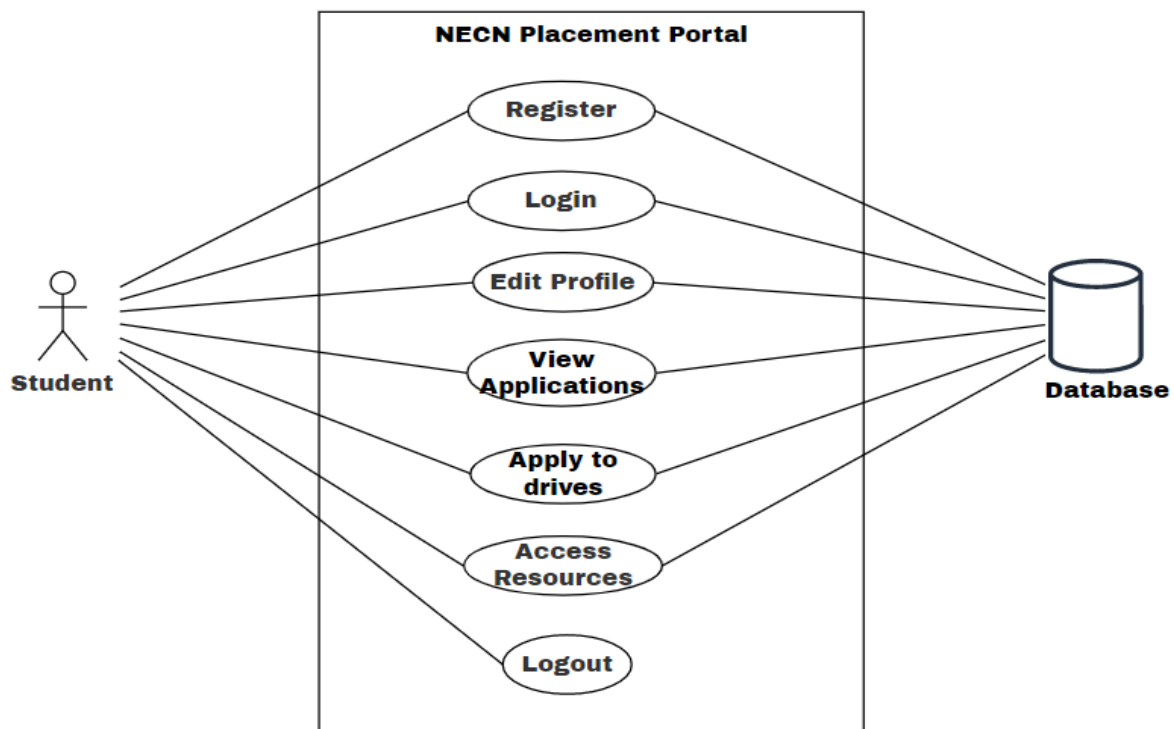


Figure 4.3.1.2: Use Case Diagram of Student

### 4.3.1.3 Coordinator:

The diagram shows about the coordinator. The actor act as a coordinator. Coordinator performs various tasks like login to the portal, post jobs, upload resources, update jobs, logout from portal. All the data given by the coordinator will be stored in to the data base. The following figure shows about the use case coordinator.

**Actors** : Coordinator, Database

**Use cases** : Login, Update Profile, Post Drive, View Applications, Upload Resources, Logout

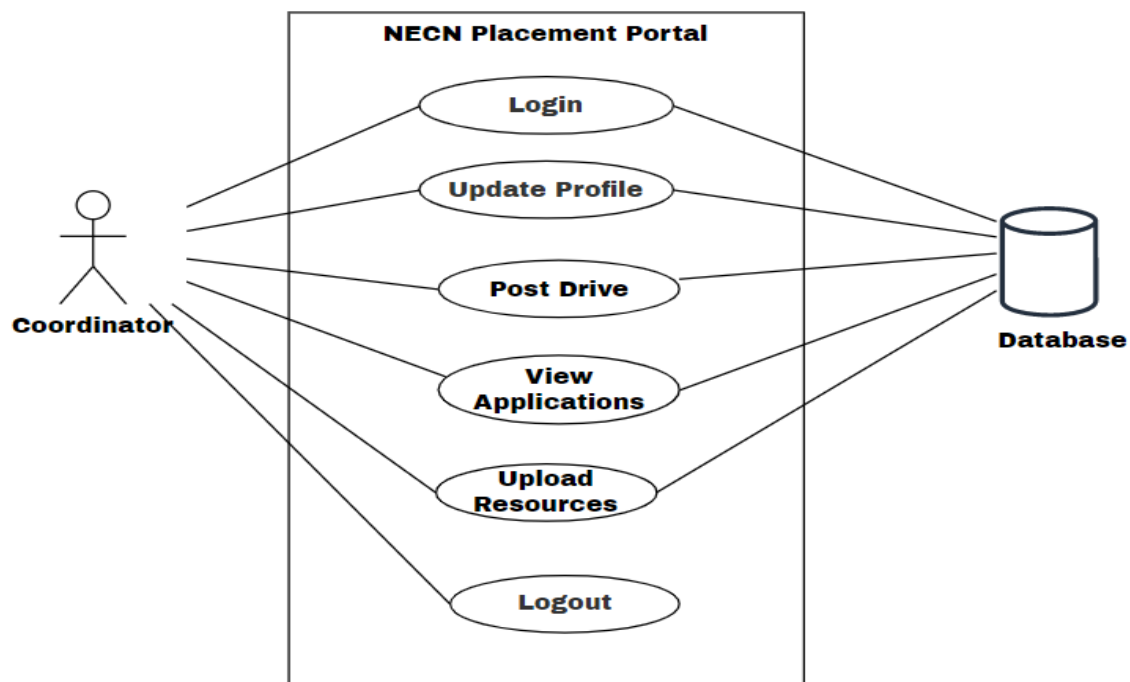


Figure 4.3.1.3: Use Case Diagram of Coordinator

### 4.3.1.4 Alumni:

The actor acts as alumni. Alumni performs various tasks like login to the portal, upload details if they placed in any company, logout from the portal. All the data given by the alumni will be stored into the database. The following figure shows about the use case of alumni.

**Actors** : Alumni, Database

**Use cases** : Login, Upload Details, Logout

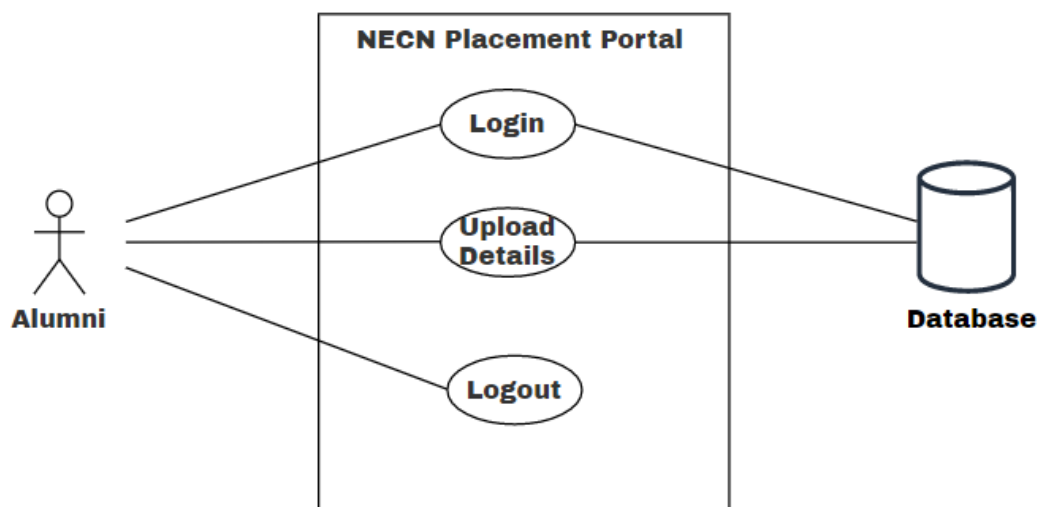


Figure 4.3.1.4: Use Case Diagram of Alumni

### 4.3.2 Sequence diagram:

A Sequence Diagram is a UML diagram that illustrates the sequence of messages between objects in an interaction. A sequence diagram consists of a group of objects that are represented by lifelines, and the messages that they exchange over time during the interaction.

#### 4.3.2.1 Admin:

The following figure shows about the admin. The actor acts as a admin. Admin sends a message like enter username and password to the login object. If the login success they can enter the dashboard. If login fails, they must return to the website. After login to the portal, they can post drives, save, and update drives and they can delete drives. Admin can allow permissions to the students after they register. Admin can manage and generate notices. Admin

can view details and manage details. The following figure shows about the sequence diagram of admin.

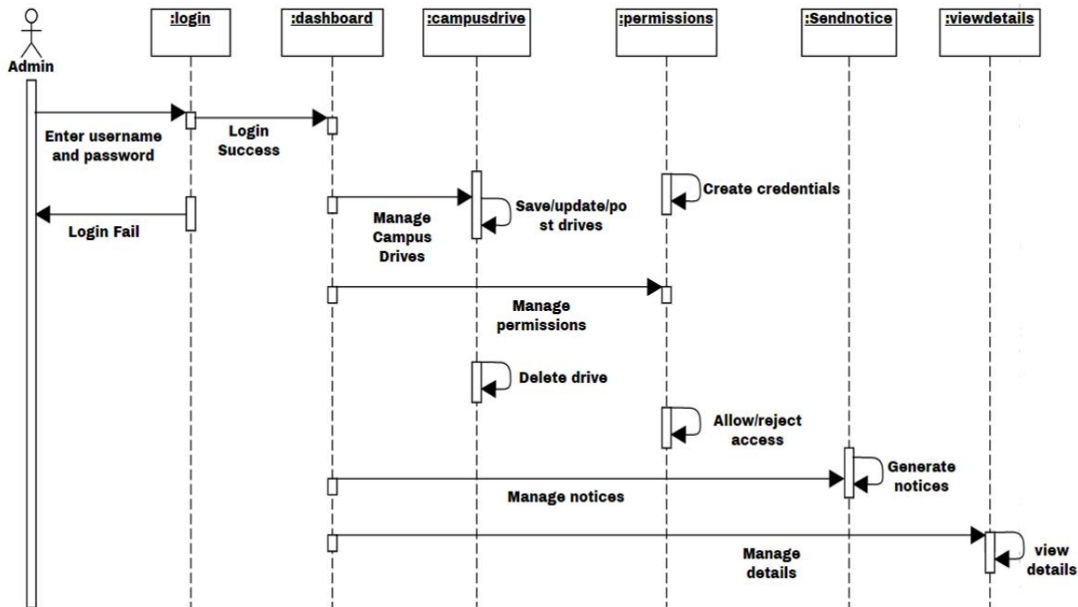


Figure 4.3.2.1: Sequence Diagram of Admin

## 4.3.2.2 Student:

The following figure shows about the student. The actor acts as a student. If the student is a new user, they must register by entering their details. After they get register the students can login through username and password. If the login get success they can enter the dashboard. If the login fails the students get a return message and the students return to the website. After getting into the dashboard, they can view alumni details. In the dashboard they can see active drives and students can apply to the drives. They can see the resources and prepare for the jobs. The following figure shows about the sequence diagram of student.



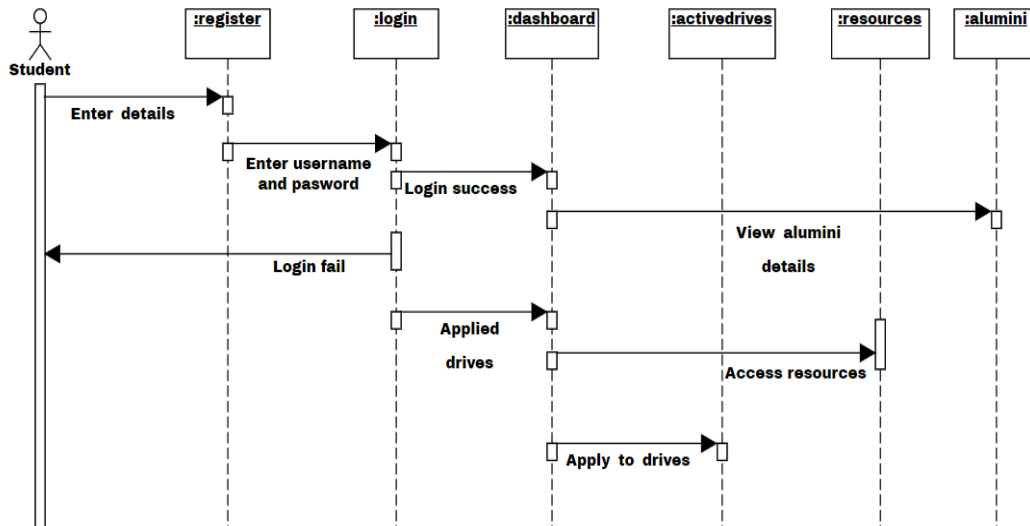


Figure 4.3.2.2: Sequence Diagram of Student

### 4.3.2.3 Coordinator:

The following figure shows about the coordinator. The coordinator acts as a actor. Coordinator enter username and password enter the login page. If the login fails the coordinator gets a return message like login fails and return into the website. After login successful they enter the dashboard. They can post drives in the campus drive. coordinators can manage and update profile. Coordinator can view applications. They can upload and manage resources like previous papers and materials etc. which is helpful for students.

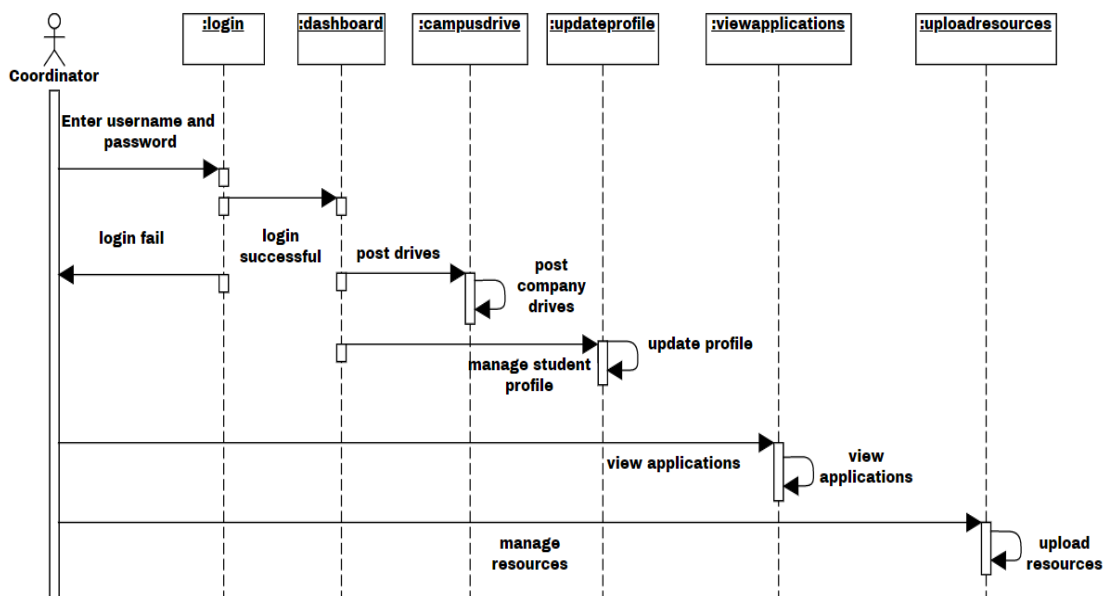


Figure 4.3.2.3: Sequence Diagram of Coordinator

### 4.3.2.4 Alumni:

The following figure shows about alumni. The Alumni acts as a actor. The alumni can enter username and password and enter the login page. After login successful enter the dashboard. If login fails again get back into the portal. After enter the dashboard alumni can view the details and they must upload the details if they get placed in any company. The following figure shows about the sequence diagram of alumni.

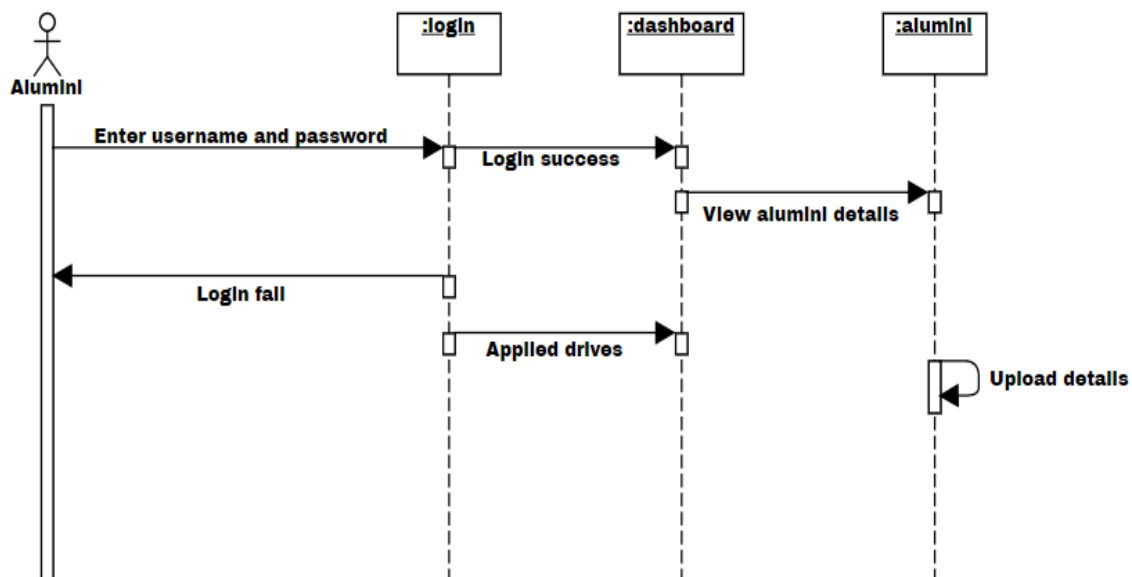


Figure 4.3.2.4: Sequence Diagram of Alumni

### 4.3.3 Activity Diagram:

In UML an activity diagram provides a view of the behavior of a system by describing the sequence of actions in a process. It is used to describe the different dynamic aspects of a system and is referred to as a 'behavior diagram' because it describes what should be happen in the modeled system. The activity diagram deal with all type of flow control by using different elements such as fork, join, etc.

The following figures describes how the activity proceeds in the NECN Placement Portal system where the control passes from one process to another.

The steps of activity diagram divided into three parts. They can be explained as,

- Admin
- Student
- Coordinator

Students can perform various activities like

1. Register

2. Login
3. Apply to company drives
4. Access Resources
5. View alumni details
6. Update details if selected

Admin can perform various activities like

1. Login
2. Post notifications
3. Give permission to students to view
4. Manage campus drive

Coordinator performs various activities like

1. Login
2. Manage post

The following figure describe about the activity of placement portal

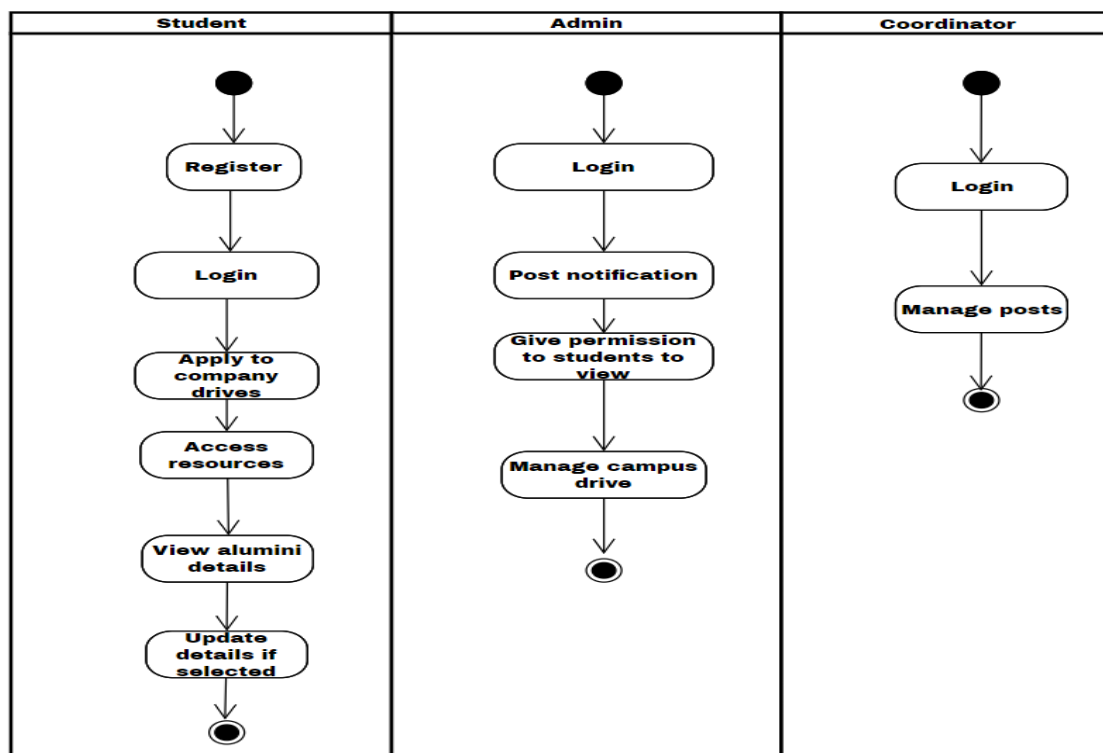


Figure 4.3.3: Activity Diagram

### 4.3.4 ER Diagram:

The below ER Diagram represents how the entities relate to each other in a system.

The entities and their attributes are:

**1. Entity: Admin**

**Attributes:** Email ID

Password

**2. Entity: Student**

**Attributes:** Name

Roll Number

Department

Phone Number

Email ID

Password

**3. Entity: Coordinator**

**Attributes:** Name

Email ID

Password

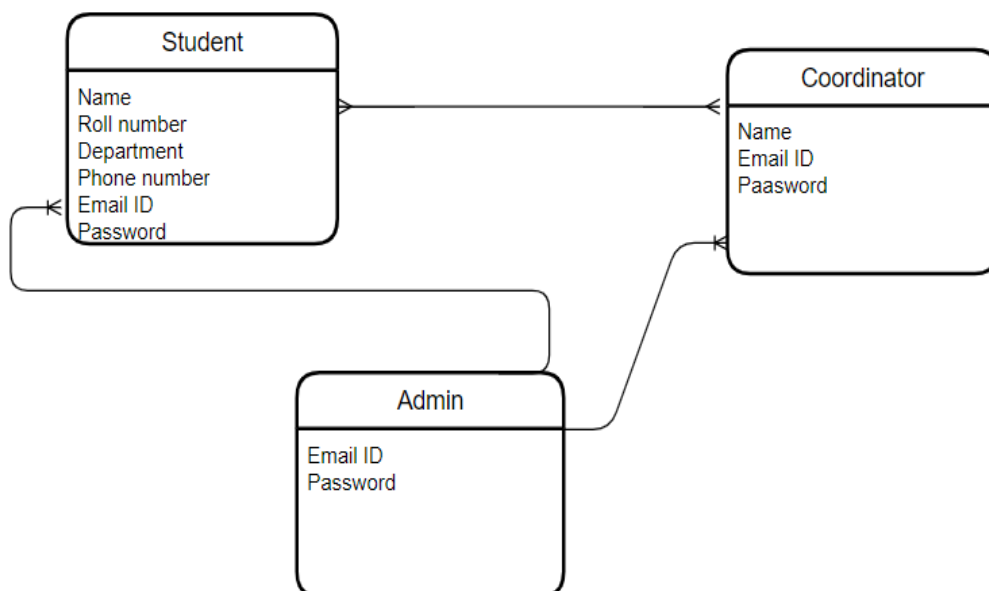


Figure 4.3.4: ER Diagram

### 5.SYSTEM IMPLEMENTATION

#### 5.1 Modules:

- Admin
- Student
- Campus Drive
- Resources
- Alumni

##### 5.1.1 Admin-post notice:

The admin post the notice and it has fields such as subject, choose file, notice description and audience. When we click the post button, the session gets started and the connection is established with the database and the data gets inserted into the database and later e-mail notification is sent. All the students or coordinators can view the notice.

##### Post-notice.php:

```
<?php
```

```
//To Handle Session Variables on This Page
```

```
session_start();
```

```
//Including Database Connection From db.php file to avoid rewriting in all files
```

```
require_once("../db.php");
```

```
if (isset($_POST['submit'])) {
```

```
    // they take values using name attribute
```

```
    $subject = $_POST['subject'];
```

```
    $notice = $_POST['input'];
```

```
    $audience = $_POST['audience'];
```

```
    //Folder where you want to save your resume. THIS FOLDER MUST BE CREATED  
    BEFORE TRYING
```

```
    $folder_dir = "../uploads/resume/";
```

```
    //Getting Basename of file. So if your file location is Documents/New Folder/myResume.pdf  
    then base name will return myResume.pdf
```

```
    $base = basename($_FILES['resume']['name']);
```

```
    //This will get us extension of your file. So myResume.pdf will return pdf. If it was  
    resume.doc then this will return doc.
```

```
$resumeFileType = pathinfo($base, PATHINFO_EXTENSION);  
//Setting a random non repeatable file name. Uniqid will create a unique name based on  
current timestamp. We are using this because no two files can be of same name as it will  
overwrite.  
$file = uniqid() . "." . $resumeFileType;  
//This is where your files will be saved so in this case it will be uploads/resume/newfilename  
$filename = $folder_dir . $file;  
//We check if file is saved to our temp location or not.  
if (file_exists($_FILES['resume']['tmp_name'])) {  
    move_uploaded_file(  
        $_FILES["resume"]["tmp_name"],  
        $filename  
    );  
    $hash = md5(uniqid());  
    $sql = "INSERT INTO notice(subject,notice,audience,resume, hash,`date`) VALUES  
('subject','$notice','$audience','$file', '$hash',now())";  
    if ($conn->query($sql) === TRUE) {  
        include 'sendmail.php';  
        header("Location: postnotice.php");  
        exit();  
    }  
}  
?  
>
```

### 5.1.2 Student-apply drive:

The details of the job from the company database will be displayed in the student's 'active drives' page. When student applies to the job and clicks 'Apply' button the session starts and if student has already applied, they get a message as 'already applied' or if the student is not eligible, they get a message as 'not eligible' and similarly, if the process is success, they get a message as 'success'.

### **Apply.php:**

```
<?php

//To Handle Session Variables on This Page

session_start();

if (empty($_SESSION['id_user'])) {

    header("Location: index.php");

    exit();

}

//Including Database Connection From db.php file to avoid rewriting in all files

require_once("db.php");

//If user Actually clicked apply button

if (isset($_GET)) {

    $sql = "SELECT * from users WHERE id_user='$_SESSION[id_user]' ";

    $result1 = $conn->query($sql);

    if ($result1->num_rows > 0) {

        $row1 = $result1->fetch_assoc();

        $sum = $row1['hsc'] + $row1['ssc'] + $row1['ug'] + $row1['pg'];

        $total = ($sum / 4);

        $course1 = $row1['qualification'];

    }

    $sql = "SELECT maximumsalary, qualification FROM job_post WHERE
id_jobpost='$_GET[id]'";

    $result = $conn->query($sql);

    if ($result->num_rows > 0) {

        $row = $result->fetch_assoc();
```

```
$eligibility = $row['maximumsalary'];

$course2 = $row['qualification'];

if ($total >= $eligibility) {

    if ($course1 == $course2) {

        header("Location: view-job-post.php?id=$_GET[id]");

        $_SESSION['status'] = "You are eligible for this drive.";

        $_SESSION['status_code'] = "success";

    }

}

}

// for checking the eligibility & course criteria

if ($total >= $eligibility) {

    if ($course1 == $course2) {

        // check for status

        // 1. Check if user has already applied for the Drive post or not. If not
then add his details to apply_job_post table.

        $sql1 = "SELECT * FROM apply_job_post WHERE
id_user='$_SESSION[id_user]' AND id_jobpost='$_GET[id]'";

        $result1 = $conn->query($sql1);

        // 2. if not then applying for the job post

        if ($result1->num_rows == 0) {

            // $_SESSION['status_code2'] = "success";

            $sql4 = "select C.id_company from job_post AS SJ inner join company
AS C on SJ.id_company=C.id_company where id_jobpost = '$_GET[id]'";
```



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```
$sql = "INSERT INTO apply_job_post(id_jobpost, id_company, id_user)
VALUES ('$_GET[id]', '$_SESSION[id_company]', '$_SESSION[id_user]')";

if ($conn->query($sql) === TRUE) {

    $_SESSION['jobApplySuccess'] = true;

    header("Location: user/index.php");

    $_SESSION['status1'] = "Congrats!";

    $_SESSION['status_code1'] = "success";

    exit();

} else {

    echo "Error " . $sql . "<br>" . $conn->error;

}

$conn->close();

}

// 3. if already applied for the drive then notfiy him

else {

    header("Location: view-job-post.php?id=$_GET[id]");

    $_SESSION['status'] = "You have already applied for this
Drive.";

    $_SESSION['status_code'] = "success";

    exit();

}

} else {

    header("Location: view-job-post.php?id=$_GET[id]");

    $_SESSION['status'] = "You are not eligible for this drive due to the
course criteria.";
```

```
        $_SESSION['status_code'] = "success";

    }

    } else {

        header("Location: view-job-post.php?id=$_GET[id]");

        $_SESSION['status'] = "You are not eligible for this drive due to the overall
percentage criteria. Update your marks in your profile, if you think you are eligible.";

        $_SESSION['status_code'] = "success";

    }

} else {

    header("Location: user/index.php");

}
```

### 5.1.3 Campus Drive:

The coordinator posts the job notice and it has fields such as company name, job description, Eligibility, role, qualification. When we click the post button, the session gets started and the connection is established with the database and the data gets inserted into the database and later e-mail notification is sent to students. All the students or admin can view the job notice.

#### Postdrive.php:

```
<?php
//To Handle Session Variables on This Page
session_start();
//If user Not logged in then redirect them back to homepage.
//This is required if user tries to manually enter view-job-post.php in URL.
if (empty($_SESSION['id_jobpost'])) {
    header("Location: ../index.php");
    exit();
}
//Including Database Connection From db.php file to avoid rewriting in all files
require_once("../db.php");
```

```
if (isset($_POST['submit'])) {
    $companyname = mysqli_real_escape_string($conn, $_POST['companyname']);
    $role = mysqli_real_escape_string($conn, $_POST['role']);
    $CTC = mysqli_real_escape_string($conn, $_POST['CTC']);
    $qualification = mysqli_real_escape_string($conn, $_POST['qualification']);
    $Eligibility = mysqli_real_escape_string($conn, $_POST['Eligibility']);
    $description = mysqli_real_escape_string($conn, $_POST['description']);
    $sql = "UPDATE job_post SET jobtitle='$companyname', experience='$role',
    minimumsalary='$CTC', qualification='$qualification', maximumsalary='$Eligibility',
    description='$description' where id_jobpost=$_SESSION[id_jobpost] ";
    if ($conn->query($sql) === TRUE) {
        // $_SESSION['name'] = $companyname;
        //If data Updated successfully then redirect to dashboard
        header("Location: my-job-post.php");
        exit();
    } else {
        echo "Error ";
        //Close database connection. Not compulsory but good practice.
        $conn->close();
    }
} else {
    //redirect them back to dashboard page if they didn't click update button
    header("Location: updatedrive.php");
    exit();

    exit();
}
```

### 5.1.4 Resources:

The coordinator posts the resources and it has fields such as to, subject, description. When we click the post button, the session gets started and the connection is established with the database and the data gets inserted into the database. All the students can view the resources.

### Resources.php:

```
<?php
session_start();
if(empty($_SESSION['id_company'])) {
    header("Location: ../index.php");
    exit();
}
require_once("../db.php");
if(isset($_POST)) {
    $to = $_POST['to'];
    $subject = mysqli_real_escape_string($conn, $_POST['subject']);
    $message = mysqli_real_escape_string($conn, $_POST['description']);
    $sql = "INSERT INTO mailbox (id_fromuser, fromuser, id_touser, subject, message)
VALUES ('$_SESSION[id_company]', 'company', '$to', '$subject', '$message')";
    if($conn->query($sql) == TRUE) {
        header("Location: mailbox.php");
        exit();
    } else {
        echo $conn->error;
    }
} else {
    header("Location: mailbox.php");
    exit();
}
```

### 5.1.5 Alumni:

In Alumni module, the list of Alumni is given by the coordinator. If any student gets placed then the coordinator changes the status of the student to placed and their details are fetched as Alumni.

### Placed.php:

```
<?php

session_start();

if (empty($_SESSION['id_admin'])) {

    header("Location: index.php");

    exit();

}

require_once("../db.php");

?>

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <title>Placement Portal</title>

    <!-- Tell the browser to be responsive to screen width -->

    <meta content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no"
name="viewport">

    <!-- Bootstrap 3.3.7 -->

    <link          rel="stylesheet"          href="https://cdnjs.cloudflare.com/ajax/libs/twitter-
bootstrap/3.3.7/css/bootstrap.min.css">

    <!-- Font Awesome -->

    <link          rel="stylesheet"          href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

    <!-- Ionicons -->
```

```
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/ionicons/2.0.1/css/ionicons.min.css">

<!-- Theme style -->

<link rel="stylesheet" href="../css/AdminLTE.min.css">

<link rel="stylesheet" href="../css/_all-skins.min.css">

<!-- Custom -->

<link rel="stylesheet" href="../css/custom.css">

<!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->

<!-- WARNING: Respond.js doesn't work if you view the page via file:// -->

<!--[if lt IE 9]>

<script src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.min.js"></script>

<script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>

<![endif]-->

<!-- Google Font -->

<link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,600,700,300italic,400italic,600italic">

</head>

<body class="hold-transition skin-green sidebar-mini">

<div class="wrapper">

    <?php
    include 'header.php';
    ?>

    <!-- Content Wrapper. Contains page content -->

    <div class="content-wrapper" style="margin-left: 0px;">
```

```
<section id="candidates" class="content-header">

  <div class="container">

    <!-- <div class="row"> -->

    <!-- <div class="col md-1"></div> -->

    <div class="col md-4">

      <h3 style="text-align: center;">Placed Students list </h3>

      <h3>Filters</h3>

      <input      type="text"      id="myInput"      onkeyup="myFunction()"
placeholder="Search for names..">

      <!-- <button onclick="sortTable()">Sort</button> -->

      <a href="export1.php"><button type="submit1" name='export_excel_btn'
class="btn btn-primary">Export to Excel</button></a>

      <button type="submit1" onclick="sortTable()" name='export_excel_btn'
style="margin-left: 8px;" class="btn btn-success">Sort Data</button>

    </div>

    <div class="row margin-top-20">

      <div class="col-md-12">

        <div class="box-body table-responsive no-padding">

          <table id="example2" class="table table-hover">

            <tr class="header">

              <th style="width:20%;">Student Name</th>

              <th style="width:30%;">Student Email</th>

              <th style="width:20%;">Company Name</th>

              <th style="width:20%;">Role</th>

              <th style="width:20%;">CTC</th>
```

```
</tr>

<!-- <thead>

    <th>Student Name</th>

    <th>Student Email</th>

    <th>Company Name</th>

    <th>Role</th>

    <th>CTC</th>

</thead> -->

<tbody>

<?php

// selecting student record via option

// fetching placed students from placed table &user table

$sql = "select * from users inner join apply_job_post INNER JOIN
job_post where users.id_user = apply_job_post.id_user AND apply_job_post.id_jobpost =
job_post.id_jobpost;;";

$_SESSION['QUERY'] = $sql;

$result = $conn->query($sql);

if ($result->num_rows > 0) {

    while ($row = $result->fetch_assoc()) {

?>

        <tr>

            <td><?php echo $row['firstname'] . ' ' . $row['lastname'];

?></td>

            <td><?php echo $row['email']; ?></td>

            <td><?php echo $row['jobtitle']; ?></td>
```



```
<td><?php echo $row['experience']; ?></td>

<td><?php echo $row['minimumsalary']; ?></td>

</tr>

<?php
    }

}

?>

</tbody>

</table>

</div>

</div>

</div>

<!-- <div class="col-md-2 ">

</div> -->

</div>

</div>

</section>
```

## 6. SYSTEM TESTING

### Test Cases:

#### 6.1. Unit Testing:

##### 6.1.1 Admin Module:

##### 1. Test Case Name: Admin Login

**Input Values:** Username = cse@gmail.com

Password = '123456'

**Expected Output:** Direct to admin's dashboard.

**Actual Output:** Directed to dashboard page

**Status:** Pass

**Description:** When the admin enters the correct username and password, the admin is directed to the dashboard.

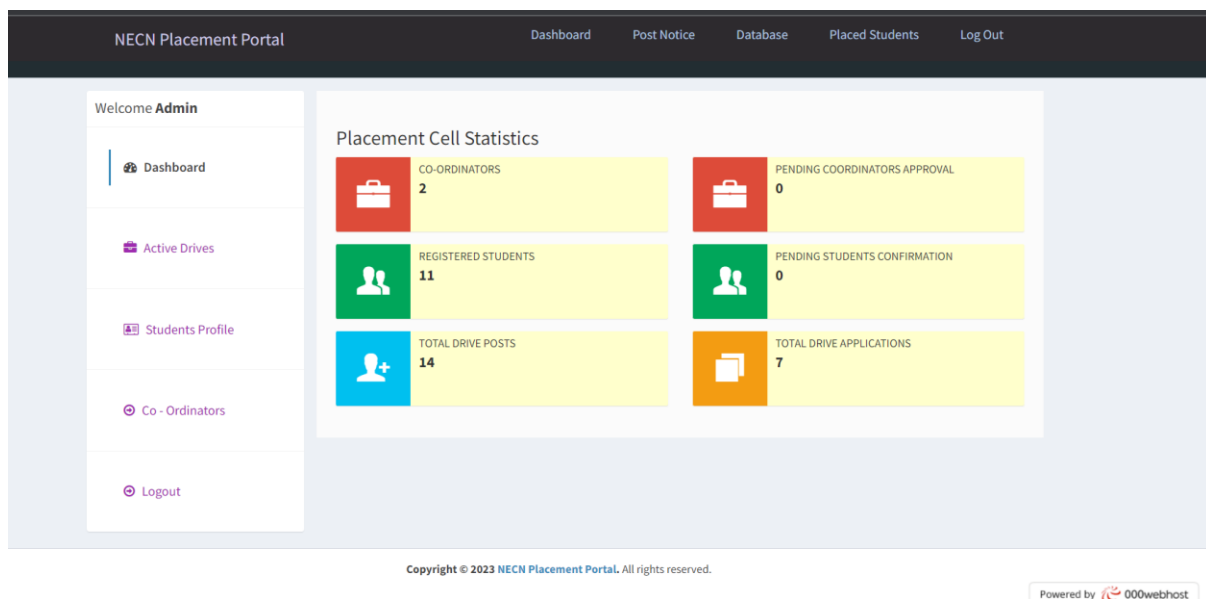


Figure 6.1.1: Unit Testing for Admin Login

## 6.1.2 Student Module:

### 2. Test Case Name: Student Login

**Input Values:** Username = '123'

Password = '123456'

**Expected Output:** Directing to dashboard

**Actual Output:** Message displayed as 'Please include an '@' in the email address. '123' is missing an '@'.

**Status:** Fail

**Description:** Basically, the user has to give their complete email id as username for login. But user might think they can give username without the extension and be directed to dashboard. But our portal displays a message as 'Please include @ in the email address. It is missing an @'.

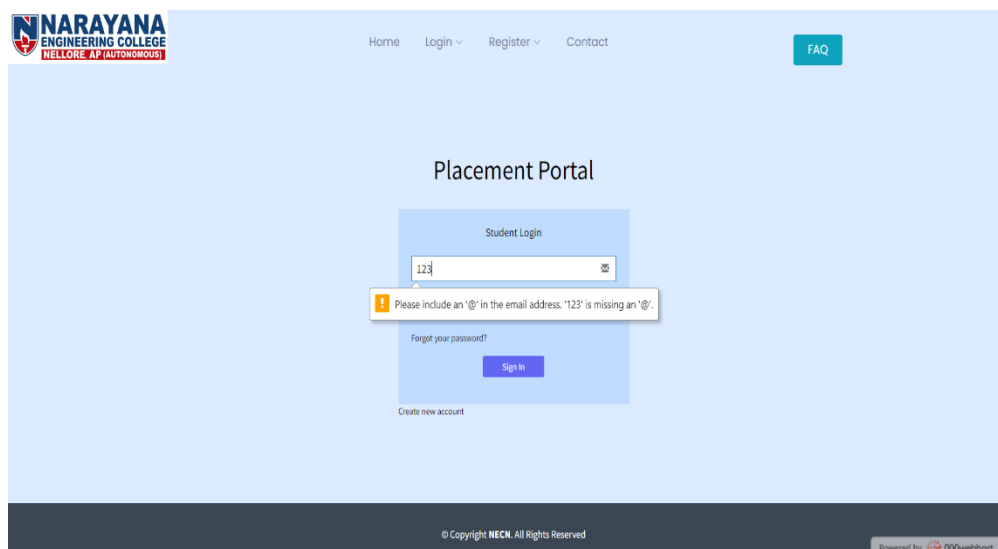


Figure 6.1.2.1: Unit Testing for Student Login

### 3. Test Case Name: Student Registration

**Input Values:** Phone Number = '987654'

**Expected Output:** Message should be displayed as 'Please lengthen this text to 10 characters (you are currently using 6 characters).'

**Actual Output:** Message should be displayed as 'Please lengthen this text to 10 characters (you are currently using 6 characters).'

**Status:** Pass

**Description:** Basically, the user has to give 10 digits in the phone number field. But if user gives digits less than 10 then they get a message as ‘Please lengthen this text to 10 characters.’

The screenshot displays a web form titled "Create Your Profile". The form is divided into two columns. The left column contains fields for: Name (Vineesha), Surname (Kuravi), Email (vineeshakuravi@gmail.com), Age (192), Date of Birth (dd-mm-yyyy), and Passing Year (dd-mm-yyyy). The right column contains fields for: Password (masked with asterisks), Phone Number (987654), Location (Nellore), State (Andhra Pradesh), and a text area for "Enter Skills". A red error message box is overlaid on the phone number field, stating: "Please lengthen this text to 10 characters or more (you are currently using 6 characters)." The bottom right corner of the form indicates it is "Powered by 000webhost".

Figure 6.1.2.2: Unit Testing for Student Registration

#### 4. Test Case Name: Post notice

**Input Values:** Empty notice field

**Expected Output:** Message should be displayed as ‘Please fill out this field.’

**Actual Output:** Message is displayed as ‘Please fill out this field.’

**Status:** Pass

**Description:** When the admin tries to post a notice without entering any details in the notice field, then a message will be displayed as ‘Please fill out this field.’

# NECN PLACEMENT PORTAL

NECN Placement Portal

DashboardPost NoticeDatabasePlaced StudentsLog Out

Post a new notice

Interview preparation

Choose FileAG1 Documentation.pdf

Notice

Please fill out this field.

All Students

NOTIFY

Posted Notice

Subject	Notice	Audience	File	Date and Time	Delete
Infosys materials	123456	All Students		2023-04-15 05:20:48	
Infosys materials	123456	All Students		2023-04-15 05:25:28	
Infosys materials	123456	All Students		2023-04-15 05:25:35	
Infosys materials	123456	All Students		2023-04-15 05:25:41	
Infosys materials	123456	All Students		2023-04-15 05:26:11	
TCS Update	TCS offer letters are released...I	All Students		2023-04-18 18:45:27	
TCS Update	TCS offer letters are released...I	All Students		2023-04-18 18:45:38	
TCS Update	TCS offer letters are released...I	All Students		2023-04-18 18:47:02	
TCS Update	sample	Co-ordinators		2023-04-19 00:28:20	

Powered by 000webhost

Figure 6.1.2.3: Unit Testing for post notice

## 6.1.3 Campus Drive Module:

### 5. Test Case Name: Post drive

**Input Values:** Empty 'eligibility criteria' field

**Expected Output:** Message should be displayed as 'Please fill out this field.'

**Actual Output:** Message is displayed as 'Please fill out this field.'

**Status:** Pass

**Description:** When the coordinator tries to post a drive without entering details in the eligibility field, then a message will be displayed as 'Please fill out this field.' Also, similarly coordinator has to fill all details such as CTC, Role, Qualification required which are mandatory.

# NECN PLACEMENT PORTAL

The screenshot displays the NECN Placement Portal interface. At the top, a dark navigation bar contains the portal name and links for Dashboard, Notice, Post Drive, and Log Out. The main content area is divided into a sidebar and a central form. The sidebar, titled 'Welcome Co-ordinator', lists navigation options: Dashboard, Update Profile, Post Drive (highlighted), Current Drives, Drive Applications, and Resources. The central form, titled 'Post a new Drive', contains the following fields: 'Name' with the value 'IBM', 'URL' with 'https://www.ibm.com/in-en', 'Views' with '500000', 'Eligibility Criteria' as a dropdown menu, and 'Skills' with 'developer' and 'B.Tech'. A green 'Create' button is positioned below the skills field. A validation tooltip with an orange error icon and the text 'Please fill out this field.' is visible next to the 'Skills' input. The bottom right corner of the page indicates it is 'Powered by 000webhost'.

Figure 6.1.3: Unit Testing for post drive

## 6.1.4 Resources Module:

### 6. Test Case Name: Post resources

**Input Values:** To: Students

Subject: Infosys Interview tips

Description: <https://www.interviewbit.com/infosys-interview-questions/>

**Expected Output:** Resources list which is should be displayed.

**Actual Output:** Resources list is displayed.

**Status:** Pass

**Description:** When the coordinator clicks on the resource module and click on create button, the coordinator gives all the details such as resources link and click on send button which directs to the page which displays list of resources posted.

# NECN PLACEMENT PORTAL

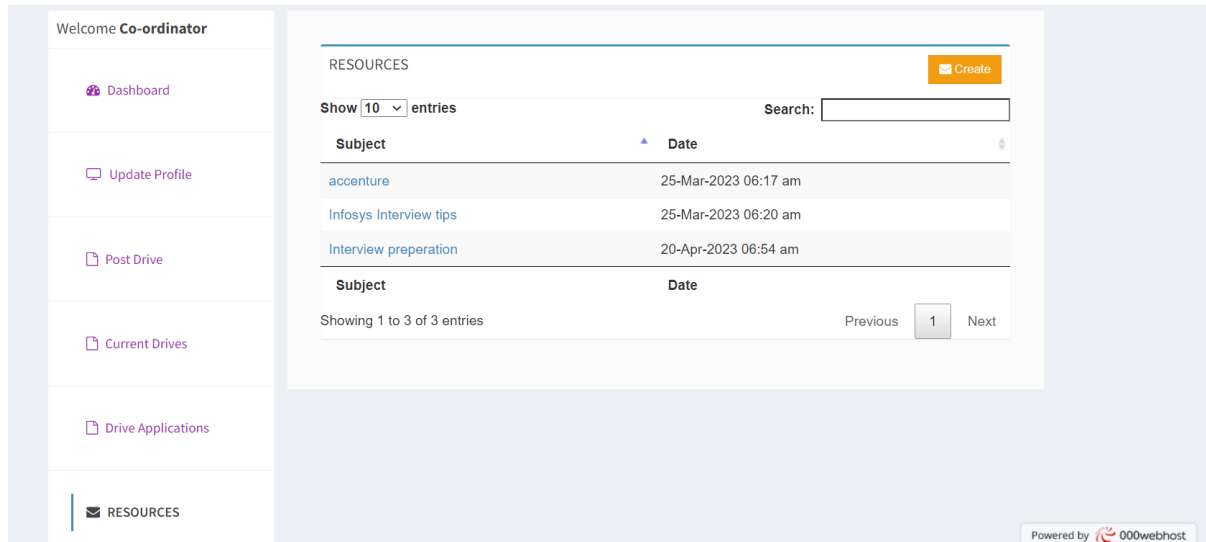


Figure 6.1.4: Unit Testing for post resources

## 6.1.5 Alumni Module:

### 6. Test Case Name: Alumni List

**Input Values:** Click on placed button of Iswarya's Wipro application

**Expected Output:** Iswarya's name in alumni list

**Actual Output:** Iswarya's name in alumni list.

**Status:** Pass

**Description:** When the coordinator clicks on the drive applications and open any student's job application, there will be a button named as 'placed' on which if coordinator clicks, the details of the particular applicant get displayed in the alumni list.

# NECN PLACEMENT PORTAL

NECN Placement Portal				
Dashboard	Create Resume	Notice	Active Drives	Alumni
Log Out				
Alumni list				
Filters				
Search for names..				
Export to Excel	Sort Data			
Student Name	Student Email	Company Name	Role	CTC
Iswarya Kolluru	iswaryakolluru@gmail.com	Wipro	Developer	50000
Azeefa Anjum Mohammed	azeefa.anjum2610@gmail.com	IBM	Developer	600000

Figure 6.1.5: Unit Testing for Alumni List

## 6.2 Integration Testing

**1.Test Case Name:** Student or coordinator approval by admin.

**Input Values:** username: [sravaniedapa@gmail.com](mailto:sravaniedapa@gmail.com)

Password: 123456

**Expected Output:** Directed to dashboard

**Actual Output:** Message displayed as ‘Your account is deactivated. Contact admin to reactivate.’

**Status:** Pass

**Description:** When the student registers into the portal and tries to login right away before the admin approval, they get a message displayed as ‘Your account is deactivated. Contact admin to reactivate’



# NECN PLACEMENT PORTAL

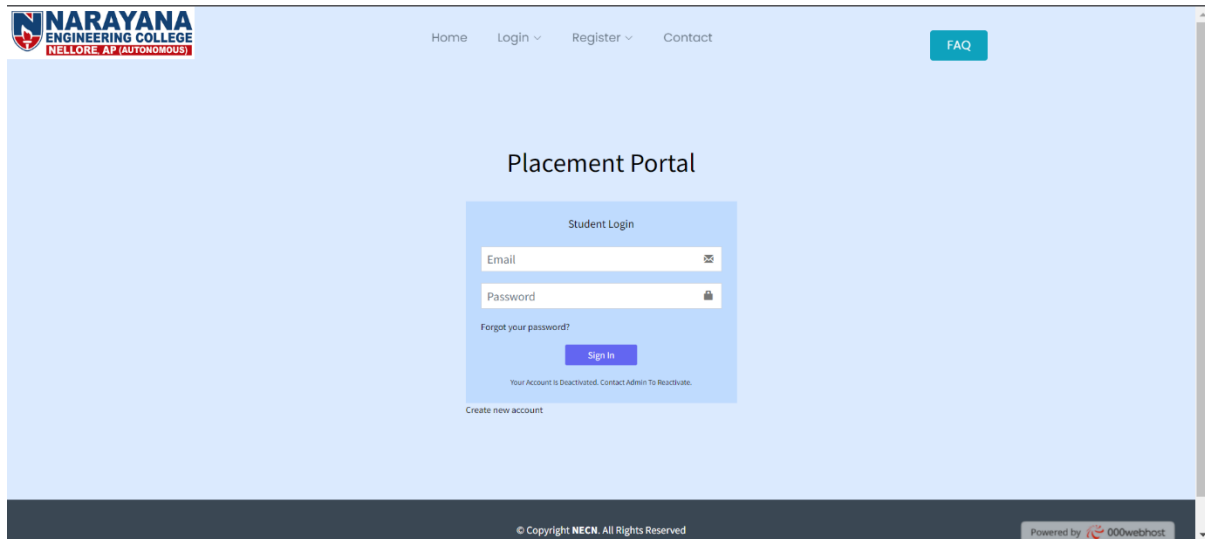


Figure 6.2.1: Integration Testing for Student approval

## 2.Test Case Name: Post Drive

**Input Values:** Company Name : Augmentik  
Job description : <https://bit.ly/agumentiktask-narayanagroup>  
CTC : 500000  
Eligibility Criteria : 75  
Role : PHP Stack Developer  
Qualification Required: B.Tech

**Expected Output:** Mail should be sent to the registered email id of the students. Mentioning that 'Go to your profile on placement portal to check your eligibility and apply for the drive.'

**Actual Output:** Mail is sent to the registered email id of the students. Mentioning that 'Go to your profile on placement portal to check your eligibility and apply for the drive.'

**Status:** Pass

**Description:** When the Coordinator posts a drive then an email notification should be sent to the registered email id of the students.

# NECN PLACEMENT PORTAL

The screenshot shows the NECN Placement Portal interface. On the left is a sidebar with a 'Welcome Coordinator' message and a menu containing: Dashboard, Update Profile, Post Drive (highlighted), Current Drives, Drive Applications, and Resources. The main content area is titled 'Post a new Drive' and contains a form with the following fields: 'Augmentik', 'https://bit.ly/agumentiktask-narayanagroup', '500000', '75', 'PHP Stack Developer', and 'B.Tech'. A green 'Create' button is at the bottom of the form. The footer of the page indicates it is 'Powered by 000webhost'.

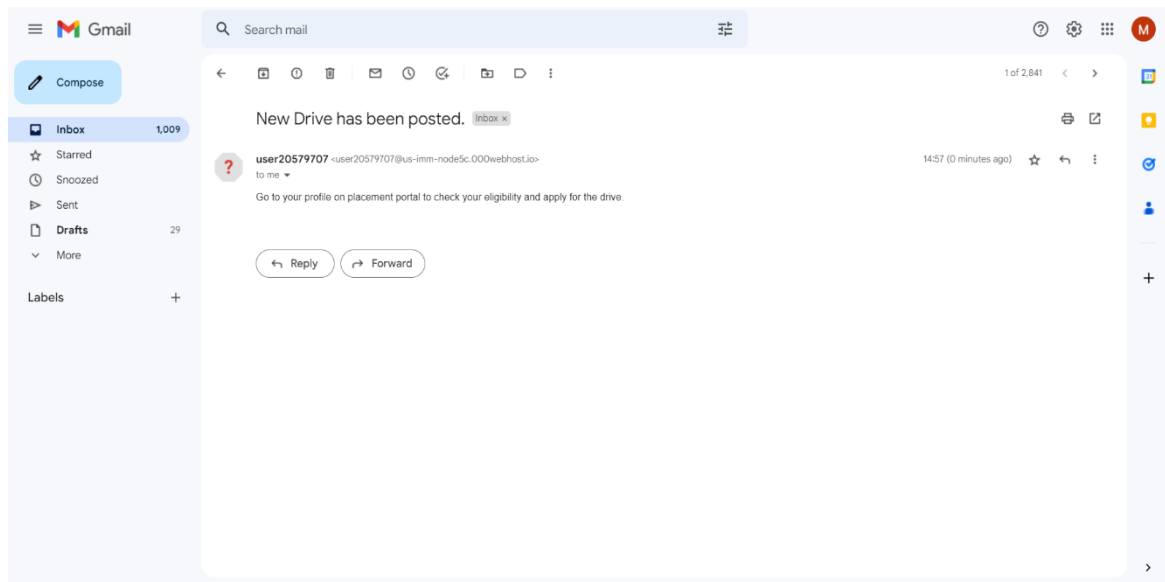


Figure 6.2.2: Integration Testing for post drive

### 3.Test Case Name: Post Notice

**Input Values:** Subject : TCS Update  
File : File.pdf  
Notice : TCS offer letters are released...!  
Option : All Students

**Expected Output:** Mail should be sent to the registered email id of the students or coordinators. Mentioning that 'The TPO has posted a new notice on the placement portal. Go to your profile on placement portal to check the notice.'

# NECN PLACEMENT PORTAL

**Actual Output:** Mail is sent to the registered email id of all the students. Mentioning that ‘The TPO has posted a new notice on the placement portal. Go to your profile on placement portal to check the notice.’

**Status:** Pass

**Description:** When the admin posts a notice then an email notification should be sent to the registered email id of the students or coordinators based on the option selected.

The screenshot displays the NECN Placement Portal interface. At the top, a navigation bar includes 'Dashboard', 'Post Notice', 'Database', 'Placed Students', and 'Log Out'. The main content area is divided into two sections. On the left, the 'Post a new notice' form is visible, featuring a text input field with 'TCS Update', a 'Choose File' button next to 'AG1 Documentation.docx', a large text area containing 'TCS offer letters are released...!', an 'Audience' dropdown menu set to 'All Students', and a 'NOTIFY' button. On the right, the 'Posted Notice' table lists several entries. The table has columns for Subject, Notice, Audience, File, Date and Time, and Delete. The data includes multiple entries for 'Infosys materials' and 'TCS Update' with various timestamps and audience selections. A footer note indicates the system is 'Powered by 000webt'.

Subject	Notice	Audience	File	Date and Time	Delete
Infosys materials	123456	All Students		2023-04-15 05:20:48	
Infosys materials	123456	All Students		2023-04-15 05:25:28	
Infosys materials	123456	All Students		2023-04-15 05:25:35	
Infosys materials	123456	All Students		2023-04-15 05:25:41	
Infosys materials	123456	All Students		2023-04-15 05:26:11	
TCS Update	TCS offer letters are released...!	All Students		2023-04-18 18:45:27	
TCS Update	TCS offer letters are released...!	All Students		2023-04-18 18:45:38	
TCS Update	TCS offer letters are released...!	All Students		2023-04-18 18:47:02	
TCS Update	sample	Co-ordinators		2023-04-19 00:28:20	
TCS Update	sample	Co-ordinators		2023-04-19 00:33:52	

The screenshot shows a Gmail inbox interface. The left sidebar displays the 'Compose' button and a list of folders: 'Inbox' (1,009), 'Starred', 'Snoozed', 'Sent', 'Drafts' (29), and 'More'. The main area shows an email titled 'New Notice has been posted.' from 'user20579707' to the user. The email body states: 'The TPO has posted a new notice on the placement portal. Go to your profile on placement portal to check the notice.' Below the email body are 'Reply' and 'Forward' buttons. The right sidebar shows a search bar and a list of icons for various Gmail features. The email is dated 'Wed, 19 Apr, 23:39 (2 days ago)'.

Figure 6.2.3: Integration Testing for post notice

## 7. RESULTS AND OUTPUTS

**7.1 Homepage:** The below figure is the homepage of the NECN Placement portal. When we click the link, this page will be displayed in the portal. From this page, registered admin, student, or coordinator can login through login button. Whereas new user can register through register button as student or coordinator. Also, there is a contact button through which anyone can contact college for any queries.

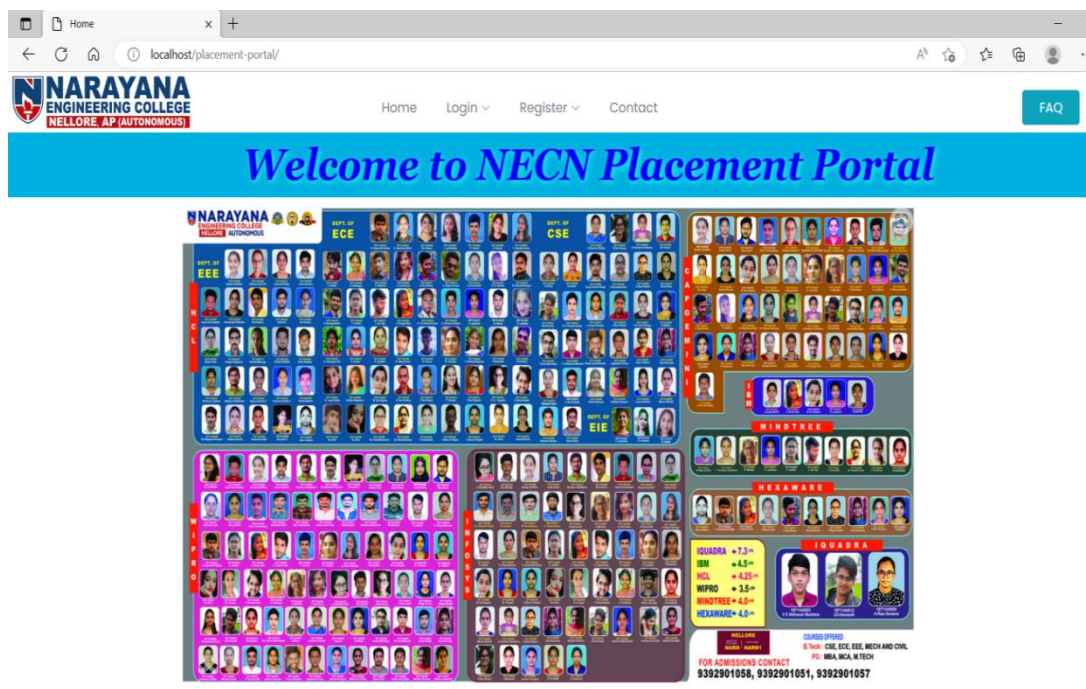


Figure 7.1: Homepage

**7.2 Login Page:** The below figure is the login page of the admin module. Through this page, admin can login by giving e-mail id and password. If all the details are correct then the page will be directed to dashboard page of the admin module. If the details are wrong, a message will be displayed saying invalid credentials. Similarly, we have login page for students and coordinator.

# NECN PLACEMENT PORTAL

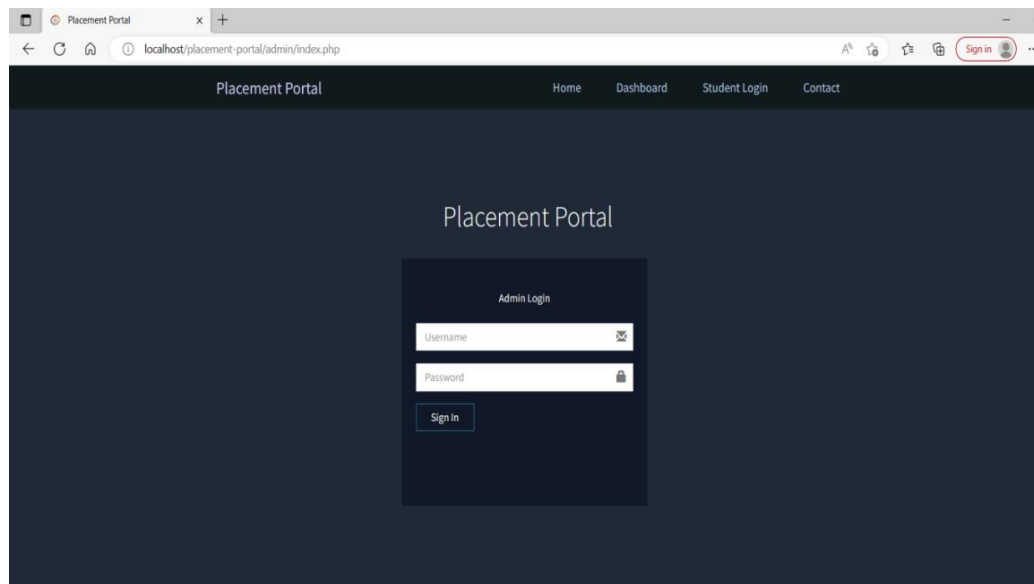


Figure 7.2: Login

**7.3 Registration Form:** The below figure is the Registration form for the student. If the user is new to the portal, the user must register. This figure is registration form for the student. Student gives all the details such as name, roll no, email id, also set a password and many other details. Once student fills all the details and click register button it will be redirected to login page. Student can login once the admin approves. Similarly, we have registration form page for coordinator.

A screenshot of a web browser displaying the 'NECN Placement Portal' registration form. The browser's address bar shows 'localhost:placement-portal/register-candidates.php'. The page has a dark blue header with the title 'Placement Portal' and navigation links: 'Home', 'Login', and 'Contact'. The main content area is light blue and features a white 'Create Your Profile' form. The form is divided into two columns. The left column contains fields for 'First Name \*', 'Last Name \*', 'Email \*', 'Roll Number \*', 'Date Of Birth' (with a date picker icon), 'Age', 'Passing Year' (with a date picker icon), and 'Highest Qualification'. The right column contains fields for 'Password \*', 'Confirm Password \*', 'Phone Number', 'Address', 'City', 'State', and 'Enter Skills'.

Figure 7.3: Registration Form

**7.4 Dashboard:** The below figure is the dashboard of the admin module. Once the admin login, will be directed to dashboard where admin can view all the data such as no. of coordinators, no. of registered students, pending students and coordinators approval, total drive posts and total drive applications. Also, there is a button called post notice through which admin can post any notice. There is a button called database through which admin can select any company and view no. of students applied to that company. There is a ‘Placed Students’ button through which admin can view list of students that are placed which is posted by the coordinator. Also, there is a button called active drives, through which admin can view active drives. There are buttons called students profile and coordinators through which admin can view details of students and coordinators.

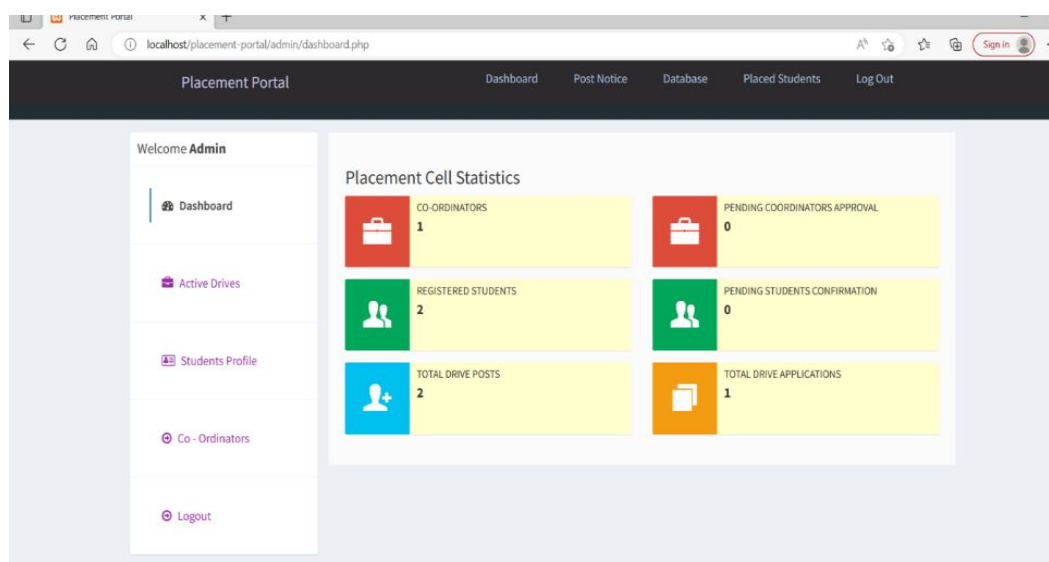


Figure 7.4: Dashboard

**7.5 Posting a Drive:** The below figure is to post a job drive. After coordinator login, coordinator will be directed to dashboard page of coordinator module which is similar to admin’s dashboard. But coordinator has another button called post drive as coordinator posts job drives. When coordinator clicks the post drive button, the below page is displayed. Coordinator gives details such as company name, link in job description field, CTC, eligibility criteria, role, and qualification. When the coordinator clicks post button, this notice will be sent to students and admin. Students also get an e-mail notification so that they can login and apply to company instantly.

# NECN PLACEMENT PORTAL

The screenshot shows a web browser window with the URL `localhost/placement-portal/company/create-job-post.php`. The page title is "NECN Placement Portal". The navigation bar includes "Dashboard", "Notice", "Post Drive", and "Log Out". The left sidebar shows a welcome message "Welcome Co-ordinator" and a menu with "Dashboard", "Update Profile", "Post Drive" (highlighted), "Current Drives", "Drive Applications", and "Resources". The main content area is titled "Post a new Drive" and contains a form with the following fields: "Company Name", "Job Description", "CTC", "Eligibility Criteria", "Role", and "Qualification Required". A green "Create" button is at the bottom of the form.

Figure 7.5: Posting a Drive

**7.6 Active Drives:** The below figure is the list of Active Drives in the admin module. The admin can view all the active drives in their module after logging in. When they click view for respective companies, they can view all the detail description of that respective companies. Students also have this button through which they can apply to companies.

The screenshot shows a web browser window with the URL `localhost/placement-portal/admin/active-jobs.php`. The page title is "Placement Portal". The navigation bar includes "Dashboard", "Post Notice", "Database", "Placed Students", and "Log Out". The left sidebar shows a welcome message "Welcome Admin" and a menu with "Dashboard", "Active Drives" (highlighted), "Students Profile", "Co - Ordinators", and "Logout". The main content area is titled "Active Drives" and contains a table with the following data:

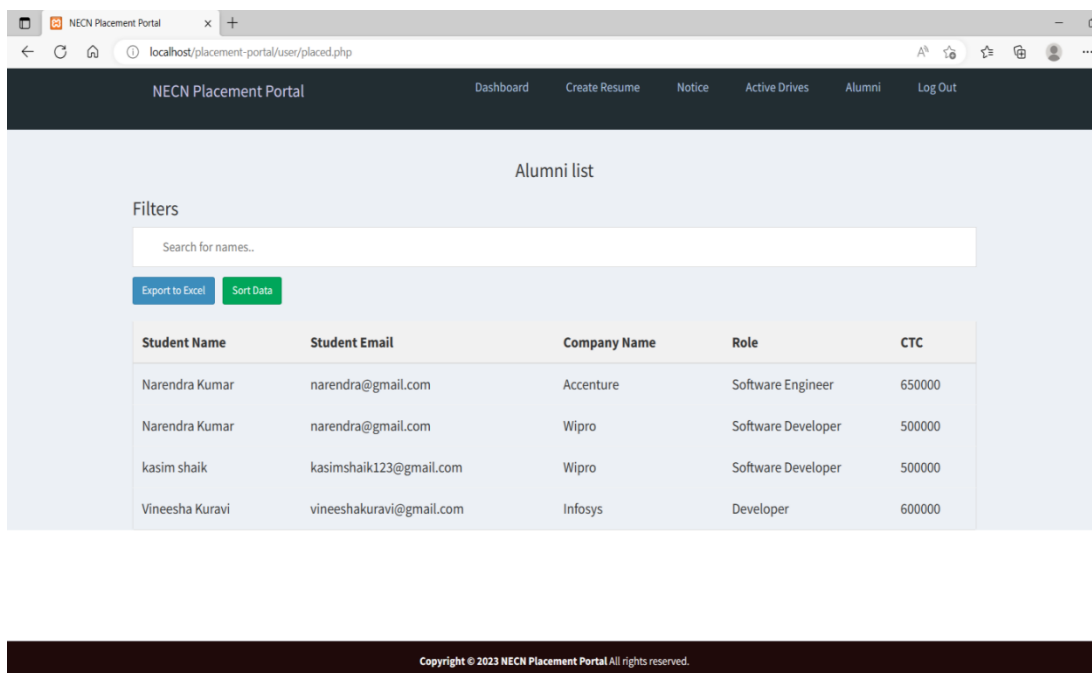
Drive Name	Date Created	View	Delete
Accenture	05-May-2022	<a href="#">View</a>	<a href="#">Delete</a>
Quantiphi	07-May-2022	<a href="#">View</a>	<a href="#">Delete</a>

Showing 1 to 2 of 2 entries

Previous 1 Next

Figure 7.6: Active Drives

**7.7 Alumni:** The below figure is the list of Alumni. The admin has the button called ‘Placed Students’ through which admin can view all the placed students lists. Also, students have this button so they can view and contact the placed students for any suggestions. The placed students list is marked by coordinator. Once, the students register in to this portal, if they get placed in any company, the coordinator mark them as placed and their name gets into the list. Any student can view the placed student’s data like the company in which they got placed, their CTC, their email id so that they can contact for any guidance or suggestions.



NECN Placement Portal

Dashboard Create Resume Notice Active Drives Alumni Log Out

Alumni list

Filters

Search for names..

Export to Excel Sort Data

Student Name	Student Email	Company Name	Role	CTC
Narendra Kumar	narendra@gmail.com	Accenture	Software Engineer	650000
Narendra Kumar	narendra@gmail.com	Wipro	Software Developer	500000
kasim shaik	kasimshaik123@gmail.com	Wipro	Software Developer	500000
Vineesha Kuravi	vineeshakuravi@gmail.com	Infosys	Developer	600000

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Figure 7.7: Alumni



## 8.CONCLUSION AND FUTURE SCOPE

### 8.1 Conclusion:

This portal discussed the methodology of job drives management system. A college placement management system that consists of a student login, coordinator login and an admin login. The project is beneficial for college students and even the college placement officer. The existing system should be replaced with a totally automated 'NECN Placement Portal' system which enables easy and flexible manipulations of various activities. This system helps in various ways such as saving time and cost of selecting companies. This set of concepts is used to build a system for easy communication between students and college management.

This system is useful for students for applying to companies, to access resources and to contact alumni for any guidance or suggestions. Also, it is helpful for students to keep track of companies they have applied and companies they have not as there is a button which gives status of the application. As the students get immediate notification when a new job is released, they can apply as soon as possible. It is helpful for the college management as they can have the data of all students, their skills, list of students who applied to companies etc., It is very helpful for the students as well as college management to handle data.

### 8.2 Future Scope:

- There is a chance to generate graphs on placement procedure on the bases of database.
- In future we can add a Feedback from student to faculty.
- In future we can add Chatbot for clarifying our doubts.
- In future we can give more advance software including more facilities.
- Integrate multiple load balancers to distribute loads of system.

The above-mentioned points are the enhancements that can be done to increase the applicability and usage of the project.

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