Web Portal for Training and Placement Cell

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Abstract: *In every educational organization Training and Placement plays an important role. Until now, most of the work is done by hand at the Training and Placement Cell. This project aims to build Web Portal for the "Training and Placement Cell" of our college. Training and Placement activities are automated by this portal. It is a web-based Application that helps students as well as the administrative staff to perform every activity in the campus recruitment process. This portal is accessed and impressively used within the organization with correct login credentials. This portal is used by the Training and Placement Officer (TPO) of the college to maintain the student information with regard to the campus hiring. Student login should be able to fill and update the personal and academic details along with the resume. Students should be able to see the placement drives, on-going events or workshops held in the organization.*

Keywords: TPO, Training and Placement Cell, Automated, login credentials.

I. INTRODUCTION

The main aim of our project is to develop a web portal for the training and placement cell. The system is a web application that can be accessed throughout the institute with proper login provided. This portal can be used by the TPO of the college to manage the student information with regard to placement. Placement officer logging can also access or search information put up by the students. It has different modules like TPO module, T&P Coordinator module and student module. By using this module TPO can easily handle the information about student profile. In this portal TPO has given all the authorities. TPO can register the students and coordinators according to the departments. In this portal student can upload their resumes, educational details and personal information that are required for the campus placement. In T&P Coordinator module, training and placement coordinator can upload events. Our training and placement web portal, provides information on placement providers and the placements they offer so that students may view and evaluate their placement opportunities. It also has the databases which is a conventional way of managing student data. The goal of the training and placement cell of the institute is to provide employment opportunities and training to the students. Our training and placement web portal provides ample opportunities to the students to develop their personality by conducting various programs on communication skills and other soft skills.

II. METHODOLOGY

2.1 Proposed System

The proposed Training and Placement Portal system is design to bring a useful impact on student as well as on institutions so they can easily retrieve the data. While doing this college observe its hard and wasting of time to collect data from each student. This portal is an online system that can be accessed within institution. This module is divided into three parts, which is given below

1. Admin (TPO),
2. T&P Coordinator for every department and
3. Student.

The admin can register T&P Coordinator, upload jobs, view the TPO, view student, he can also apply filter using SSC, HCS marks.

The T&P Coordinator can register student using student id, search student, upload any notice, he/she can also view notice and upload gallery (pictures of recently placed student).

In student profile, Student can view recent notices in their dashboard, update their profile like SSC, HSC, Diploma, Graduation marks etc. The proposed online training and placement web portal is implemented to avoid the disadvantages

of existing system which will bring more features to proposed system. The proposed system is implemented to do the following:

1. The problem for sorting/searching of data is solved by doing a search student option, it can also use the apply filter option for students means which students criteria match the company criteria using SSC and HSC marks. It will give the list of students.
2. Replica of files: As said earlier the student data is separated according to department wise so there will no duplication in system.

Technology used: Python, Django, HTML, CSS, JavaScript, MySQL

III. EXISTING SYSTEM

1. Sorting Problem: In our institution records are maintained in excel sheets in which sorting the data always cause a problem.
2. Search Problem: The files are not arranged in proper order so searching problem occurs.
3. Replica of Files: The data which is not properly maintained or arranged so duplication also occurs by manually.
4. More Manual Work: In the earlier system all work is performed by TPO.
5. Error: Chances of error is increasing due to manual work which is done by human intervention.
6. Time Consuming: Due to the problems in above steps the procedure is taking more time.

IV. LITERATURE SURVEY

We read different research papers, manuals and documents that are correlated to our project idea. Following are some literatures that are useful to recognize different ways or strategies to build this project.

Title: Placement Management System for Campus Recruitment
Author: Aneena Felix, Ajeena Sunny, Angelin Saji
Year: 2020 (May)
Limitation: Although in this paper, placement management system is used as an application for Training and Placement Officer to manage the placement related activities and also the student can be able to update their profile but in the student dashboard there should be such facility that student can also see the specific companies based on their academic criteria. Laravel framework is used to expand this application along with Model-View-Template (MVT) pattern [1].

Title: Training & Placement Management System
Author: Akshata Bhalgat, Ina Datta, Abhishek Kolkar, Aditya Mate
Year: 2017 (Dec)
Limitation: This system focuses on three algorithms like K-Means Clustering, Naive Bayes classifier, ID3 Algorithm. Using K-Means Clustering they combines the untagged dataset into different clusters. The training and placement process evaluates the relationship between words in the categories and training documents, and then categories and the entire training set. The feasible facts are gathered using calculations based on Bayes' Theorem. While ID3 Algorithm model the classification process, a tree is constructed using the decision tree technique from that dataset. Once a tree is produced, it is applied to every tuple in the database leading to classification for that tuple [2].

Title: Smart Training & Placement System
Author: Rahul Kumar Modi, Dr. S.B.Vanjale, Akshit Jain, Supreet Raj
Year: 2017 (June)
Limitation: This system includes main feature like automated mailers which is used by TPO and TPC for mailing each and every company and students who is a suffering from a frustrating job [3].

Title: Student Analysis System for Training and Placement
Author: Praneeth Ambiti, Navaneeth Kumar B, K Hema, Vamsi Kandula, Kishore Buddha

Year: 2020 (Mar)

Limitation: This proposed system provides all the facilities to Admin (TPO), Student and Recruiter to manage their task according to their requirement. In Student Dashboard there is a facility of several recruitment exam analysis like Cocubes, Amcat in the form of diagrammatical view. On the other hand, in the admin dashboard there are some facilities like year wise placement results in graphical form, Searching of individual student details. While in recruiter dashboard recruiter can filter the students based on their necessity. It gives the exact solution to the existing system issue [4].

Title: Online Training and Placement Management System
Author: Mrs. Srividhya V R, Santhosh Kumar H
Year: 2016
Limitation: In this portal various dashboards are available like Admin, Student and HR. In HR dashboard there are some main features are available like assign company, student mapping, reports. In admin module admin can verify the students according to their eligibility [5].

Title: A Review on Placement Management System
Author: Spoorthi M S, Kavana V, Koushik S N, Veena M
Year: 2021 (July)
 Limitation: This system provides automation in all processes like registering, updating, searching. In this system students have access to virtual resources, commentary, and a platform that works as a user interface. This android app also has an admin login option and placement UI. Users are convenient to view this app in web as well as in android view [6].

Title: Study of Implementation of Online Placement System
Author: C. K. Patil, K. G. Patel
Year: 2016 (Mar)
Limitation: The framework Struts 2 is a famous and mature web application which is based on the Model-View-Controller (MVC) design pattern. Struts 2 is the combination of webwork framework of struts 1 and opensymphony. This system includes main features like mail notification, forums, report generation [7].

Title: Online Training and Placement Portal with Android Application
Author: Sandeep S. Chorge, Ganesh A. Bhabad, Balaji D. Chate3, Rahul T. Take, Nitin R. Shinde
Year: 2017
Limitation: This android application consists of six types of users likely TPO, Training and Placement Staff, Student, Departmentwise Staff, Companies. In this TPO can investigate any vacancies in the system through some flexible forms. It also provides the feature like automated email system [8].

Title: A Study of Student Information Management Software
Author: FU Yue
Year: 2016
Limitation: This analytical research paper concludes some phases are important for the development of student information management software like survey and analysis, data modelling, selection of databse system, functional design, selection of network system architecture, selection of database access technology, code design, testing, release of application, maintenance and upgradation. In this they briefly discussed about the topics namely the designing of database functions and concept structure, database demand analysis [9].

Title: Student Information Management System
Author: Dipin Budhrani, Vivek Mulchandani, Yugchhaya Galphat
Year: 2018
Limitation: This system consists of various sections like student, faculty, exam section, placement cell, administrator. In this TSFS security algorithm is used to protect the sentient data like passwords, marks and addresses [10].

Title: Training and Placement Cell Application

Author: J.Swathi, K.Priya Tharsini, S.Suganya Janani, Asso.Prof Dr.G.Vinoth Chakkaravarthy

Year: 2018 (Mar)

Limitation: This application is constructed using android technology namely Android ADT bundle. It includes login module, student module, administrator module. In Student module students have the facility of updation of their personal details and arrears. They can also see details about placement interested students in that module. Whereas in administrator module admin can get the eligible list of students on the basis of company's criteria in the form of excel sheet by simply clicking the shortlist button. This application is designed using various tools like Android Studio and phpMyAdmin [11].

Title: Web Based Placement Management System

Author: Anbubala.R, Anjali.V, Jeyalakshmi.PR, Ranjini.V, Sri Mathura devi.G

Year: 2016

Limitation: This is a placement management application which is designed using PHP for frontend development and MySql for backend development. This OTAP system consists of three main modules admin, student, company. It provides features such as registration, updation and searching for automation in all the modules [12].

Title: CABAL-Training and Placement Departmental Portal

Author: Payal Gothi, Jidnyasa Raut, Prof. Nileema Pathak, Komal Patil, Riddhi Kamat

Year: 2019 (Aug)

Limitation: This CABAL portal consists of 7 important features like

Generation of report, forum, SMS notification, resume building, admin, company, student. In this various technology and tools are used like Microsoft Visual Studio, ASP.NET framework and one software application SQL Server Management Studio (SSMS). SSMS is used for handling, configuring, monitoring, configuring and administering every SQL infrastructure [13].

Title: Review on Training & Placement Cell System

Author: Prof. Teshu Gaurav Singh, Monika Devi, Godawari Chouhan

Year: 2018 (Mar)

Limitation: In this system various extra features are available likewise skype interview, telephonic interview, direct messaging, provide guidelines. This sytem is developed using various technologies like Android, Asp.net, Java and Python. It follows the complete modular architecture means this modularity of architecture provides us the facility of changing or adding the content or modules in the forthcoming in order to improve certain functionalities of particular situation [14].

Title: Training and Placement Portal

Author: Pratiksha Gaikwad, Dr. Ram Joshi, Sheetal Kanthale, Mrinal Chaudhari, Savani Kadam

Year: 2017 (Dec)

Limitation: Support Vector Machine (SVM) training algorithm is used in this portal. It estimates if the test images collapse within the class or another. SVM requires lots of training related information to choose the limit and computative price. For both object detection and image classification challenges SVM machine learning algorithm is used. This portal is built using an open-source application server Apache Tomcat and MySql database [15].
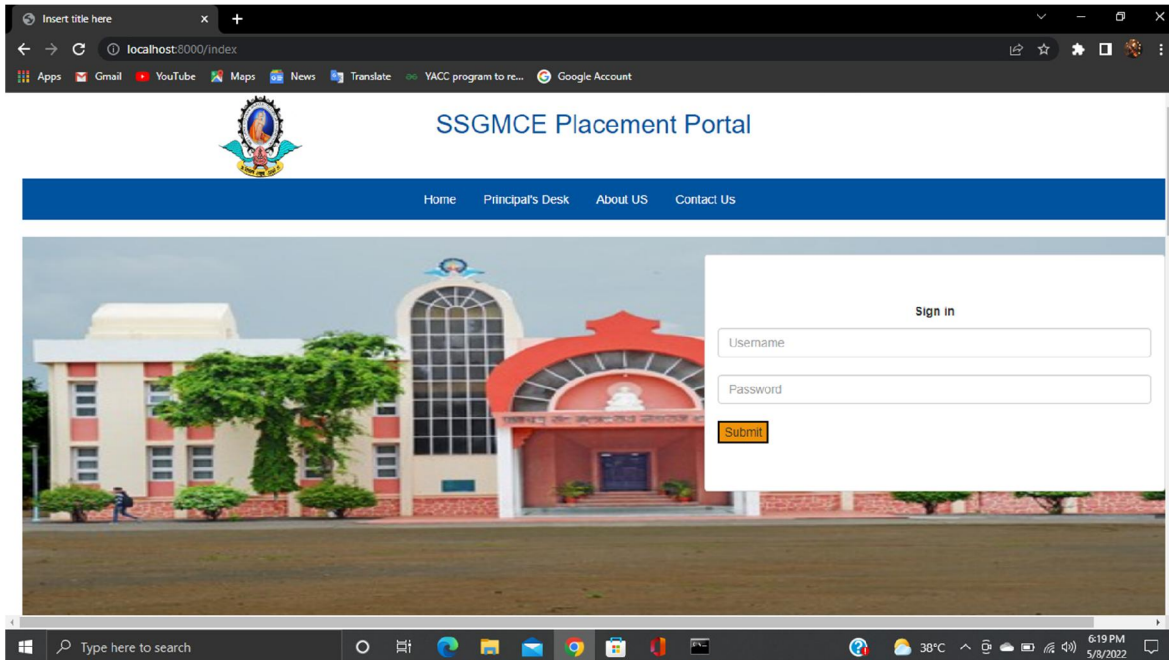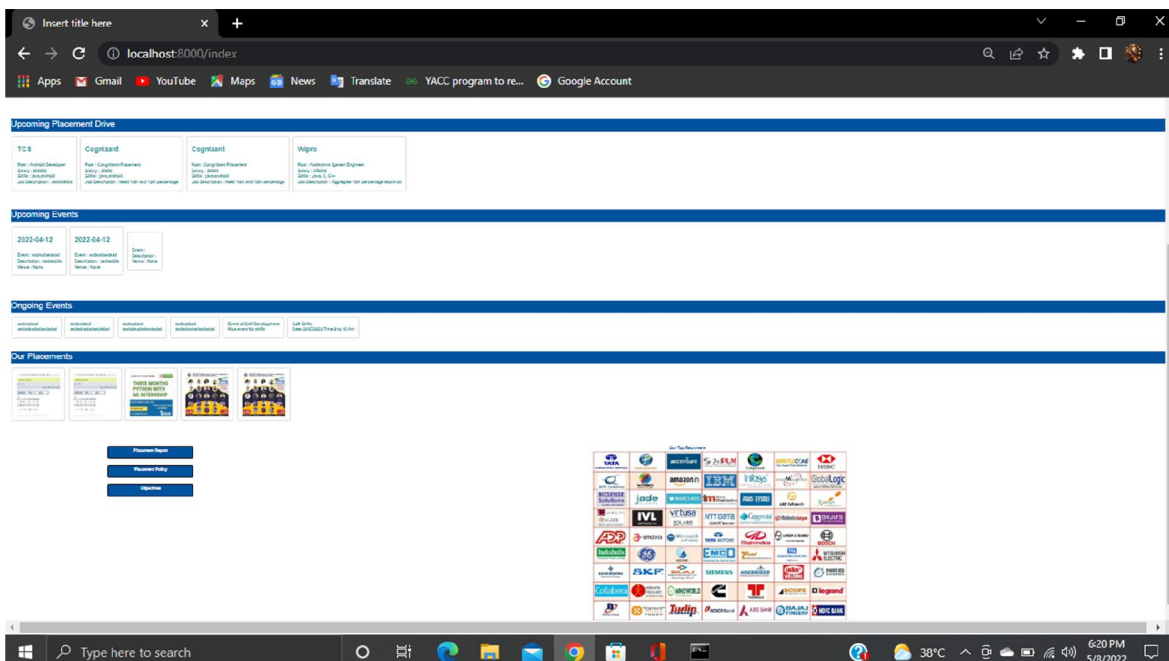
V. RESULT

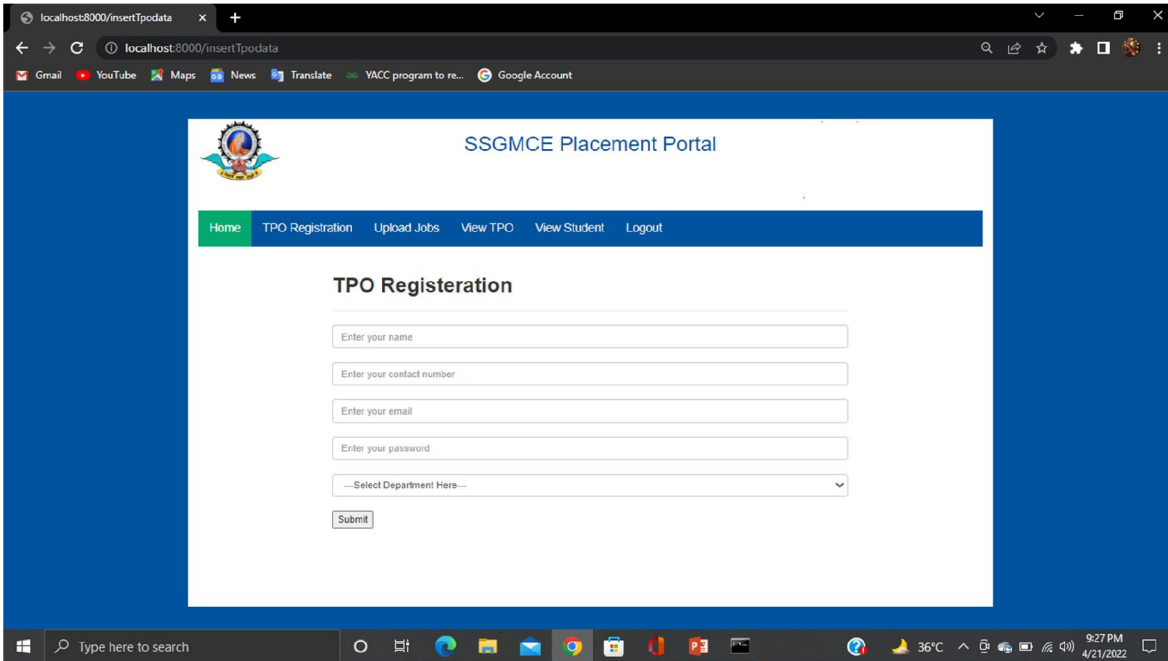**Figure 1.1:** Homepage

Figure 1.1: Homepage

Impact Factor: 6.252

Figure 2.1: Admin Dashboard
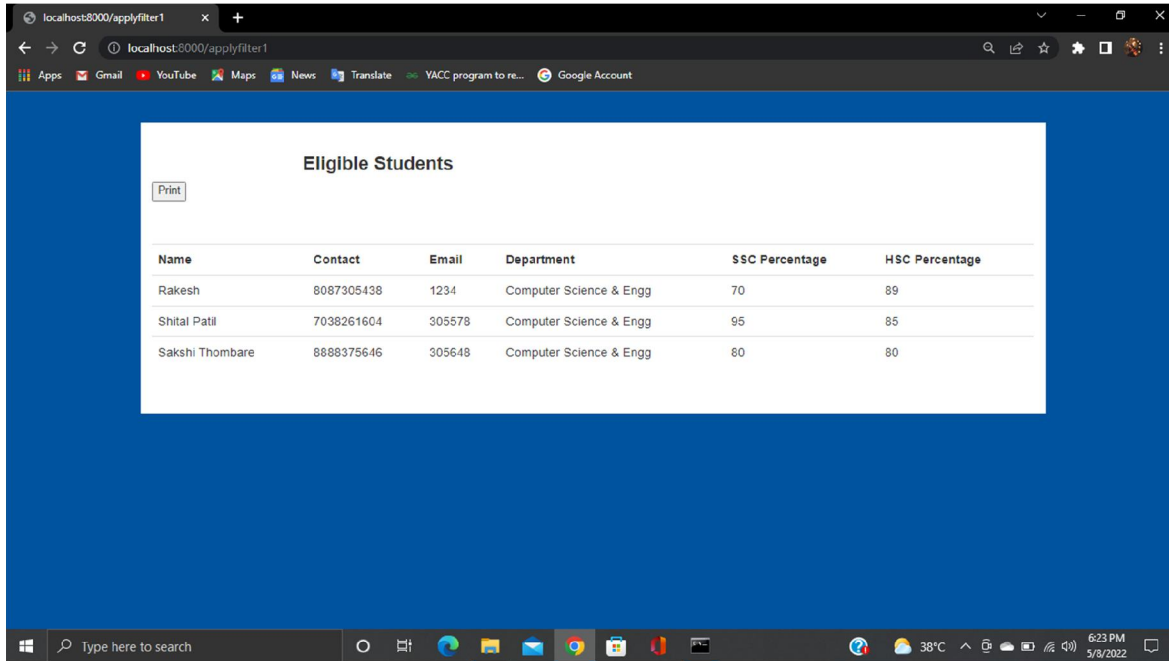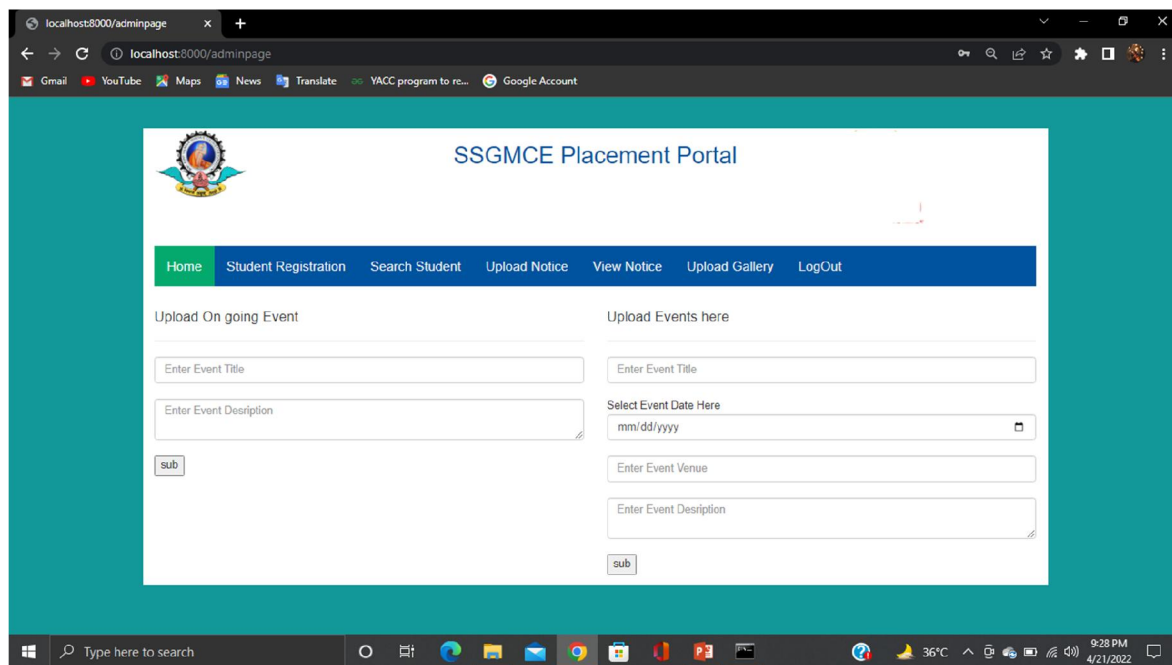
Figure 2.2: Company Filteration

Figure 2.3: List of Eligible Students

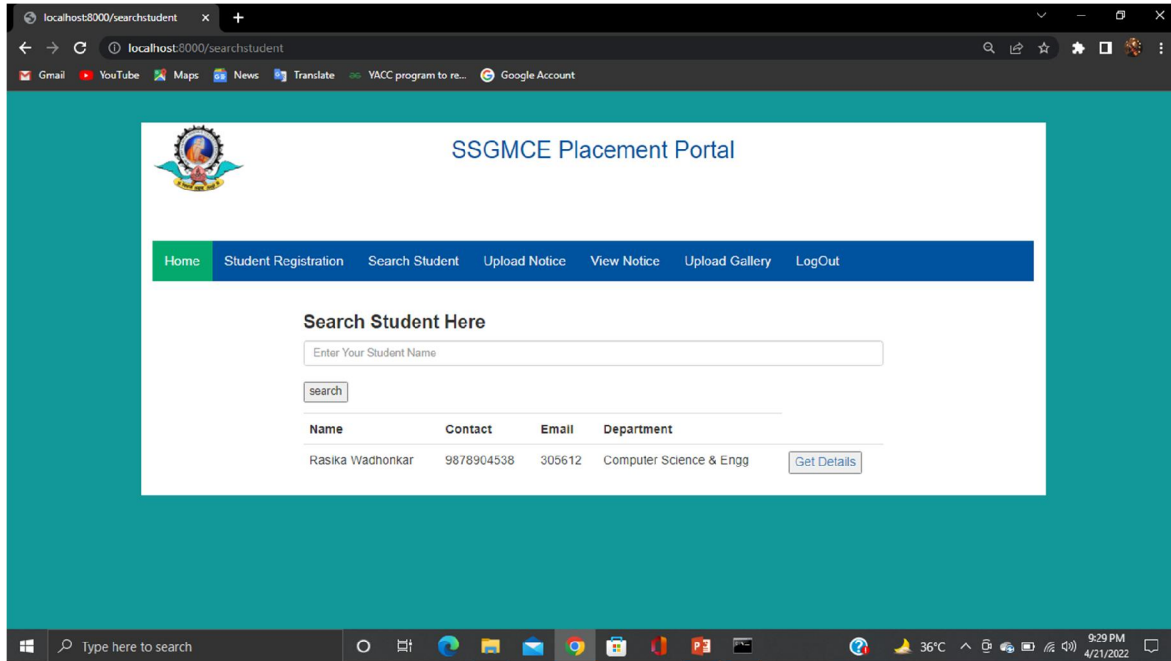**Figure 3.1:** T&P Coordinator Dashboard
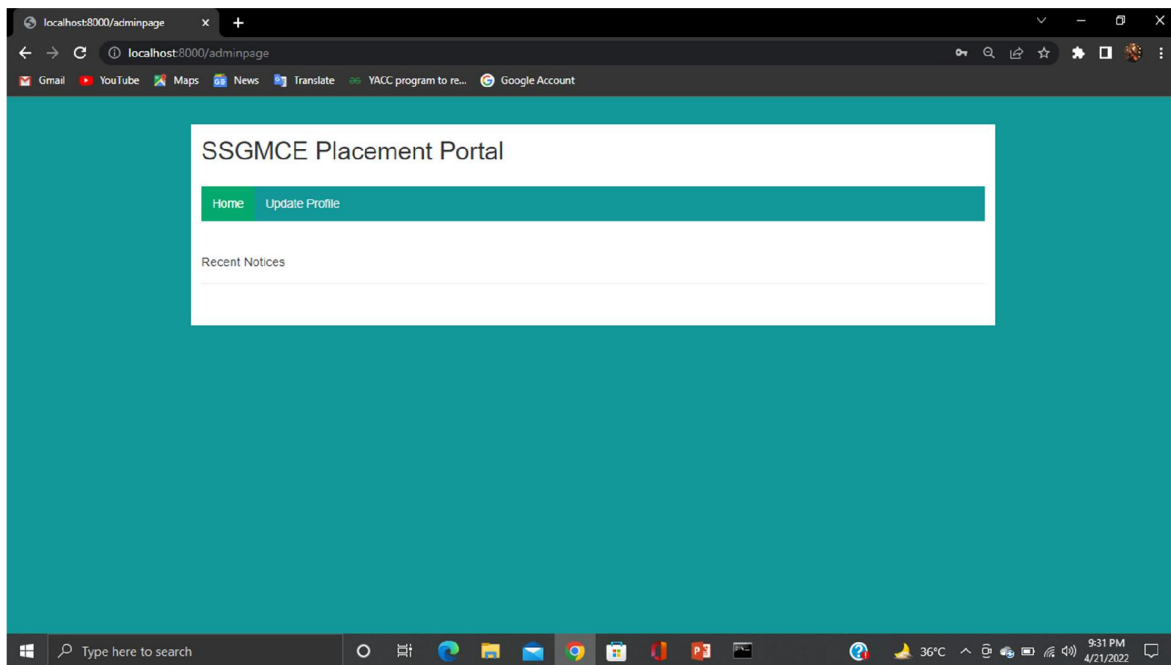
Figure 3.2: Search Student

Figure 4: Student Dashboard

VI. CONCLUSION

In the existing system most of the work is done manually and it use to take more time. The training and placement web portal is automated so, TPO is able to register the students for the campus placement and student can update their own data. The proposed system gives automation in all the process of campus recruitment, searching student details individually. The TPO can see the student's information and will substantiate accordingly. In proposed system, problems like, the registration of the students for upcoming placement, the addition of new user is all met. It provides the detail solution to the existing system problem. This web portal is user friendly and easy to access by all the students. Overall training and placement web portal is automated.

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