



# e – Training and Placement Analysis System (*e-TAP*)

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*Abstract: This project is aimed at developing an online application for the Training and Placement Dept. Of the college. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided. This system can be used as an application for the TPO of the college to manage the student information with regard to placement. Visitors/Company representatives logging in may also access/search any information put up by students. Project has a big scope to do. We students can maintain the information and update it. Students and parents can access previous information about placement. This system has scope of improved amendments.*

**KEYWORD:** Tableau, Data Visualization, Excel sheets, Placements and Training data, Web Development, Tableau server.

## Introduction

Here a form is given to students in which he/she has to fill with some details such as his name, roll number, contact details, percentages (from first year to till date), Intermediate particulars (name of institution, place, year of pass, percentage), SSC particulars (name of institution, place, year of pass, percentage). From the data collected through filled-forms and green book, excel sheets are prepared. These excel sheets are used to prepare a list of students who full-fill the requirements of a company visiting the campus and these students are eligible to attend the campus placement. The user is the person who visits the placement page to see the data in a visualized form to understand the placements and training programs of the college in a better way. This page displays the analyzed data on the website.

## I. PROPOSED SYSTEM

In the proposed system the user need not do all the hectic work. He will be provided with an interface with which he can easily get his work done. The following are the facilities that are provided by the system to the user. Here the user is able to view a student's profile of his interest by giving the student's roll number as input.

## II. TECHNOLOGIES USED

### 3.1 TABLEAU

Tableau Software is an American interactive data visualization software company focused on business intelligence. It was founded in 2003 in Mountain View, California, and is currently headquartered in Seattle, Washington. In 2019 the company was acquired by Salesforce for \$15.7 billion. **Tableau** can help anyone see and understand their data. Connect to almost any database, drag and drop to create visualizations, and share with a click.

### 3.2 Excel sheets

The training and placement data is collected from the TPO in the excel sheets that are filled by various students using the google forms when they participate in different company drives and placement programs.

### 3.3 Tableau server

Tableau server saves the graphs we make using the sample data we collected and stores the visualizations on the server. This graphs will be accessible from everywhere to the user and can be embedded in the web apps.

### 3.4 HTML

HTML is Hyper Text Markup Language used for the structure formation of the web page. It forms the general layout of the web page and the order in which the items to be arranged. It is the basic language to the web application development. It can be assisted using the technologies such as CSS, JavaScript.

### 3.5 CSS

CSS is Cascading Style Sheets is generally used for styling of the HTML documents. It forms the design and presentation of the web application to look better. It helps in making the page attractive and easy to navigate in some cases.

### 3.6 JavaScript

JavaScript is the famous programming language. It is the programming language of the web. It is easy to learn, there will be some links that can be embedded in the web page or in the source code as embedded java script.

## IV. DATA VISUALIZATION

Data Visualization is the visualizing of the data in various graphs and charts to make them understand better and good decision-making. Visualization can be of many forms of graphs and charts that are made using different software's. Tableau is one such software that displays data in different formats. We can visualize the data after dividing it into various tables and inputting them into the software.

The divided data can be used as different graphs and charts which will be obtained from the sample data that is used by the TPO. Data can be divided as rows and columns also the values can be varied as count, difference, maximum value etc... depending on the need of the visualization. Data and Information visualization interdisciplinary field that deals with the graphical representation of the data. It is considered the efficient way of transforming the information among the people with maximum number of people understanding the data clearly.

## V. WEB DEVELOPMENT

Web application development is done to display the data visualizations obtained from the tableau software. The web application is developed using the web languages such as HTML, CSS, JavaScript that define the structure, design and action dynamic part of the web application. The web page will be dynamic based on the amount of java script used and the dynamic actions performed on the web page. The number of interactions of the application with the server increases as the increase in the development of the application.

## VI. IMPLEMENTATION

The steps to be implemented for the project are –

1. The first step is to collect the data from the students through google sheets or other sources.
2. Then, we need to export the data to tableau server.
3. The uploaded data must be divided into tables of different rows and columns depending on the feature required to be visualized from the data.
4. We will then obtain a graphical representation of data representing the required fields.
5. The web page must be developed now for further development in the project.
6. Web application is designed using the basic web languages HTML, CSS and JavaScript.
7. The link of the visualized part will be available in the tableau as embedded java script code which will be included in the web application.

## VII. RESULT

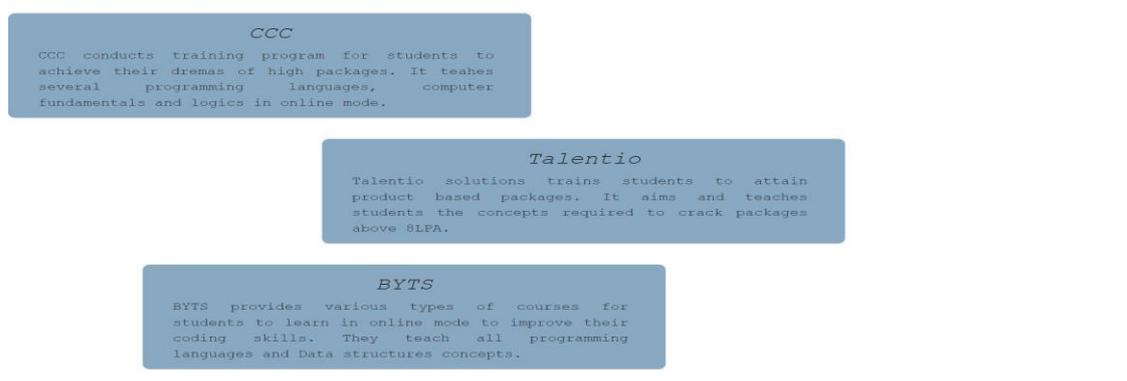


Fig: Various training companies

The figure above describes the various training companies that provide training programs to students of the college based on their interest in the career. It contains the data of the company that provides the specific programs to crack jobs at product based and service based companies.



Fig: Training Companies graphs.

The above diagram illustrates the trends in the company specific training programs provided by various companies and the number of students selected in that case. This helps in obtaining the efficiency of the program offered and the result percentage is obtained to measure success rate.

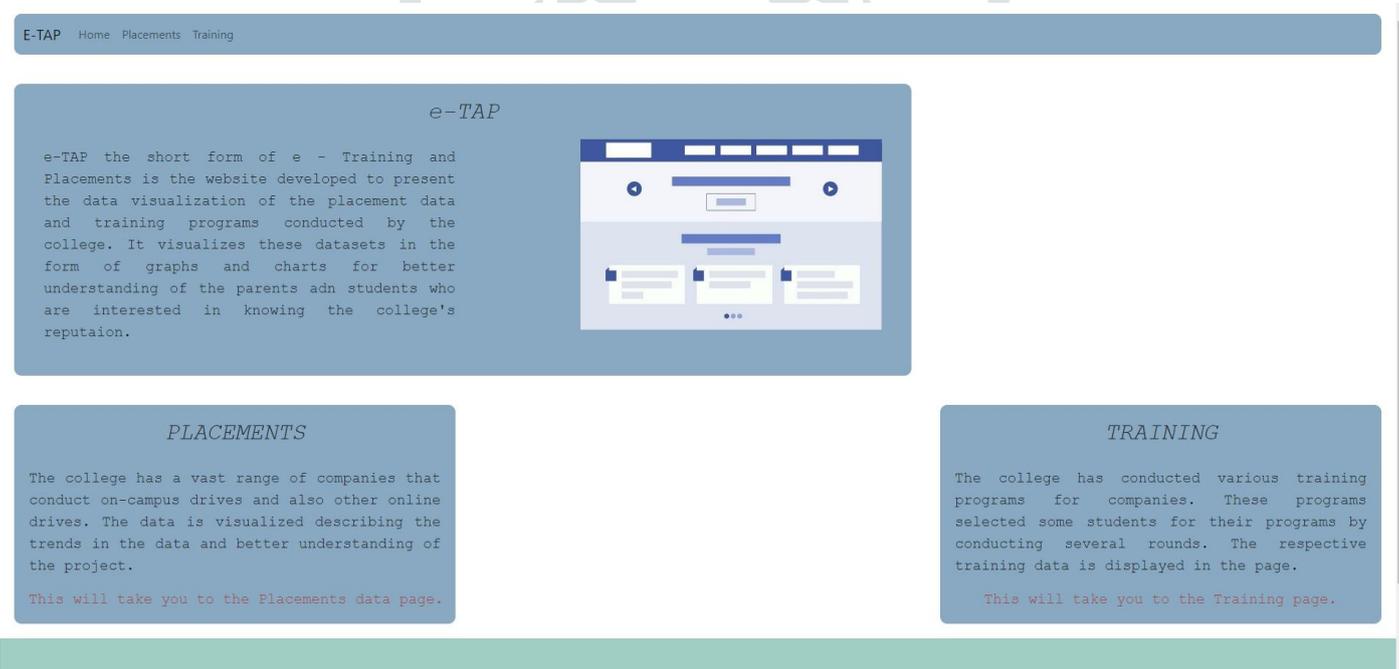
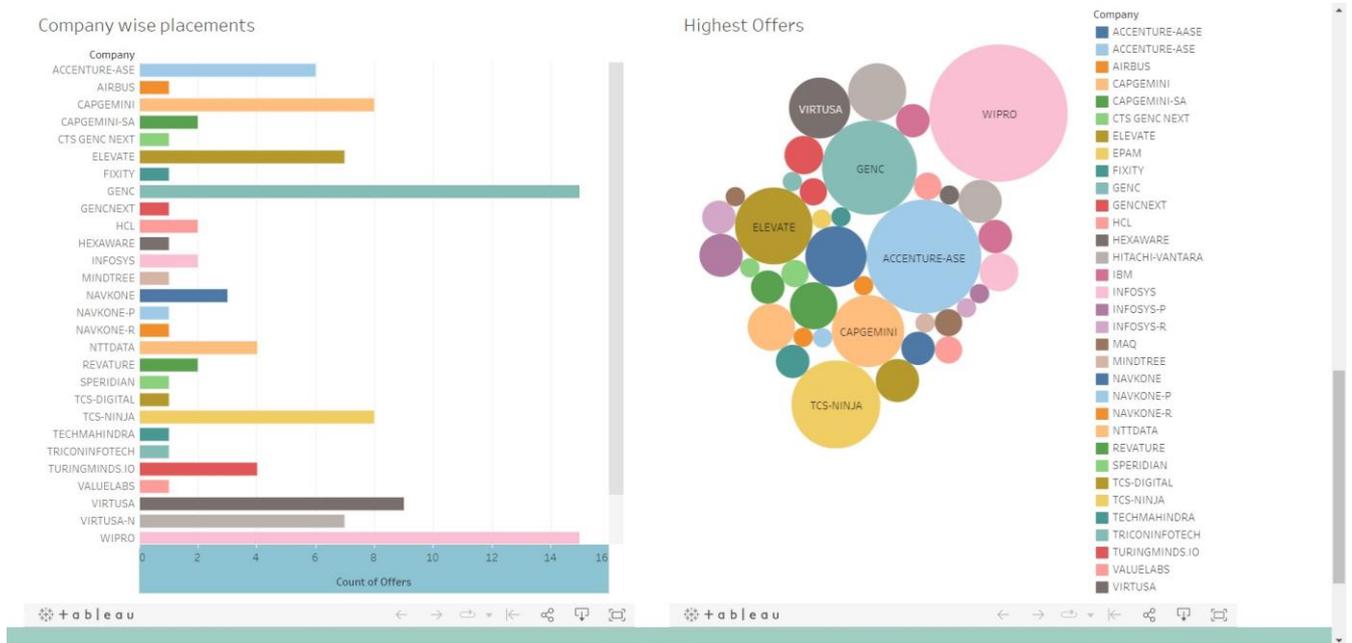


Fig: Home page

The above is a sample home page that will be displayed on the web application. It contains the links to the training and placements page. It holds the main principle of the development of this application and other aspects that are available through the portal and are accessible to the users searching regard the placements data. The web application can also be hosted on server using a temporary domain or permanent domain based on the fund's availability. This hosting helps in using the website from any computer with internet. There are many free hosting websites available online that give us a free service of hosting websites in their servers.



## IX. CONCLUSION

This project Online Training and Placement Management System is for the purpose of Training and Placement Department of the college, the system is an online application that can be accessed throughout the organization and outside as well with proper login provided. This system can be used as an application for the TPO of the college to manage the student information. The main theme is to provide a visualized analysis of the placements offered and training programs conducted at the college to be understood easily by the students or parents who are willing to know about the college's previous placements.

The following are the facilities that are provided by the system to the user

- College placement statistics.
- Highest packages – companies – number of offers – product/service based companies among them
- Can be displayed on the website directly using the Tableau software.

## X. REFERENCE

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- [6] Hosted Website link – “<http://e-tap.great-site.net/>”.

