**CHAPTER 1**

**INTRODUCTION**

* 1. **PROJECT OVERVIEW**

Cloud provides various services to the user over a network. This service model offers improved resource flexibility and easy accessibility. We can access the cloud data anywhere at any time we needed. The E- PLACEMENT is a web based application for the placement department of the college in order to provide the details of its students in a database for the companies to their process of recruitment provided with a proper login. The system contains all the information about the students that are protected by the unique user-id and password. The system stores all the personal information of the students and their technical skills that are required in the CV to be sent to a company. Students with proper login can update their details in CV at any time. This system is an online application that can be accessed throughout the organization and outside as well with proper login provided. This system can used for college to manage the student information with regards to placement details .This project contains all the details of the students that can be viewed by all the companies, but can be modified only by the student with an authorized service. Each and every detail will be controlled and coordinated by the placement coordinator. E-placement application can improve the campus recruitments easily.

* 1. **AIM:**

E- PLACEMENT is a total management and informative system, which provides the up-to date information of all the students in a particular college.

**1.3 PROBLEM DEFINITION**

Now a day’s campus placements are conducted in all colleges. Various software and other sector companies are conducting campus selections for selecting merit candidates. When campus selections are conducted the students should provide their curriculum vitae to the concern officer for attending the campus interviews. This routine process is maintained manually, like maintenance of their resumes in papers. This can be automated by designing software.

* 1. **OBJECTIVE:**

E Placement helps the colleges 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.

**CHAPTER 2**

**SYSTEM ANALYSIS**

System analysis is a problem solving technique that decomposes a system in to its component pieces for the purpose of studying how well those component parts work and interact to accomplish their purposes. System analysis is the process of studying a procedure or business in order to identify its goals and purposes and create systems and procedures that will achieve them in an efficient way. Analysis and synthesis, as a scientific methods, always go hand in hand; they complement one another. Every synthesis is built up on the results of a preceding analysis, and every analysis requires a subsequent synthesis in order to verify and correct its results.

* 1. **EXISTING SYSTEM**
     1. The earlier system is not computerized. All transactions in the system are done manually maintaining records. To make this laborious job simple the clients have to computerize the system. The management and all the departments that have been carrying out this job using manually makes the job more complicated and tedious most of the times. So, the best way is computerize computerization of the current environment. For example, in the earlier system placement officer has to collect student details for placements. Approving those student details takes lot of time. Placement officer and students have to consult each other directly if any information is needed. If any new company come for placements, placement officer and his staff has to search the student details and they have to find the eligible candidates for that particular company placement. Here searching for eligible candidates takes lots of time. And some times some candidates’ details may be missed.

**Drawbacks of Existing System**

It takes so much time for a placement officer to collect students’ details and approving the details provided by them. Poor communication between students and placement officer, so here intimating about new placements is a hard task. Students may not know about company details. Here also poor communication provides a problem. Candidate may not get required information if concerned TPO is not at the desk.

* 1. **NEED FOR PROPOSED SYSTEM**

The proposed system is fully computerized, which removes all the drawbacks of existing system. Proposed system is an online application that can be accessed throughout the organization and outside as well with proper login provided. Students logging should be able to upload their information in the form of a CV. The administrator will create the users and the users will use the accounts created by administrator. When the user entered into his respective page he has to 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 to do the services like adding events, 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.

* 1. **FEATURES OF PROPOSED SYSTEM**

Placement officer can easily collect student’ details, and approve the details provided by them. As it is an online application, communication with placement officer is easy to students and recruiters, so here intimating about new placements very easy task. Here recruiters can also search for the details provided by students on the basis of their percentage. Placement officer can send required materials used for placements preparation to students. With this option preparation for placements becomes easy.

* + 1. **Feasibility Study**

The feasibility of the project is analyzed in this phase and business proposal is but forth with a very general plan for the project and some cost estimates. During system analysis the feasibility study of the proposed system is to be carried out. This is to ensure that the proposed system is not a burden to the company. For feasibility analysis, some understanding of the major requirements for the system is essential.

Three key considerations involved in the feasibility analysis are

1. Economical Feasibility

2. Technical Feasibility

3. Social Feasibility

**1. Economical Feasibility**

This study is carried out to check the economic impact that the system will have on the organization. The amount of found can company can pour into the research and development of the system is limited. The expenditures must be justified. Thus the development system as well within the budget and this was achieved because most of the technologies are freely available. Only the customized products had to be purchased.

**2. Technical Feasibility**

This study is carried out to check the technical feasibility, that is, the technical requirements of the system. Any system developed must not have a high demand on the available technical resources. This will lead to high demands being placed on the client. The developed system must have a modest requirement, as only minimal or null changes are required for implementing this system.

**3. Social Feasibility**

The aspect of study is to check the level of acceptance of the system by user. This includes the process of training the user to the system efficiently. The user must not feel the threatened by the system, instead must accept it as a necessity. The level of acceptance by the users solely depends on the methods are employed to educate the user about the system and to make him familiar with nit. His level of confidence must be raised but also able to make some constructive criticism, which is welcomed, as the final user of the system.

* 1. **REQUIREMENT ANALYSIS**

**2.4.1 HARDWARE REQUIREMENTS**

Processor : Pentium –I Core

RAM : 2 GB

Hard Disk : 1.28GB

* + 1. **SOFTWARE REQUIREMENTS**

Operating System : Windows 7/8/10

Front End : HTML, CSS AND BOOTSRAP

Script : JavaScript

Back End : PHP

Database : MYSQL

Cloud Service : Amazon Web Service

* + - 1. Tools:
      2. Programming Languages:

**JavaScript:**

JavaScript often abbreviated as JS, is a [high-level](https://en.wikipedia.org/wiki/High-level_programming_language), [interpreted](https://en.wikipedia.org/wiki/Interpreted_language) [programming language](https://en.wikipedia.org/wiki/Programming_language). It is a language which is also characterized as [dynamic](https://en.wikipedia.org/wiki/Dynamic_programming_language), [weakly typed](https://en.wikipedia.org/wiki/Weak_typing), [prototype-based](https://en.wikipedia.org/wiki/Prototype-based_programming) and [multi-paradigm](https://en.wikipedia.org/wiki/Multi-paradigm_programming_language). Alongside [HTML](https://en.wikipedia.org/wiki/HTML) and [CSS](https://en.wikipedia.org/wiki/CSS), JavaScript is one of the three core technologies of [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web) [content engineering](https://en.wikipedia.org/wiki/Content_engineering). It is used to make dynamic Webpages interactive and provide online programs, including video games. The majority of [websites](https://en.wikipedia.org/wiki/Website) employ it, and all modern [web browsers](https://en.wikipedia.org/wiki/Web_browser) support it without the need for [plug-ins](https://en.wikipedia.org/wiki/Browser_extension) by means of a built-in [JavaScript engine](https://en.wikipedia.org/wiki/JavaScript_engine). Each of the many JavaScript engines represent a different implementation of JavaScript, all based on the [ECMA Script](https://en.wikipedia.org/wiki/ECMAScript) specification, with some engines not supporting the spec fully, and with many engines supporting additional features beyond ECMA.

**HTML:**

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

**CSS:**

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document, including plain XML, SVG and XUL, and is applicable to rendering in speech, or on other media. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging WebPages, user interfaces for web applications, and user interfaces for many mobile applications.

* + - 1. **DATABASE:**

**MySQL**

MySQL is an open-source relational database management system (RDBMS). Its name is combinations of “My”, the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. For proprietary use, several paid editions are available, and offer additional functionality.

**PROJECT MODULES:**

There are mainly **3** modules in the project “**Training and Placement Cell**“

They are:

* Student module.
* Administrator module.
* Recruiter module.

**Student module consists of services like:**

* **Update details:** This service provides the user to update their details.
* **Check details:** This service provides the user to check his details.
* **Material:** This service provides the user to check for materials uploaded by administrator
* **Mailing:** This service provides the user to mail to administrator.
* **Change password:** This service enables the users to change password

**Administrator module consists of services like:**

* **Update details:** Allows administrator to update his (college) details.
* **Update statistics:** Allows administrator to insert/update statistics like no. Of students selected etc.
* **Add student:** Allows administrator to add a student to database.
* **Add recruiter:** Allows administrator to add a recruiter to database.
* **Add event:** Allows administrator to add/insert an event.
* **Approve:** Allows administrator to verify the details of the student, and to Approve him to the application if they are correct.
* **Student details:** Allows administrator to search for student information According to eligibility criteria for recruitment process.
* **Upload material:** Allows administrator to upload material for students.
* **Mailing:** Allows administrator to reply for the mails sent by users.
* **Change password:** This service enables the administrator to change password.

**Recruiter module consists of services like:**

* **Update details:** This service provides the user to update their details.

**REFERENCES:**

1. Roger S Pressman, “Software Engineering – A Practitioner’s approach” McGraw – Hill International Editions, Fifth Edition, 2001.
2. Henry F Korth, S. Sudharshan, “Database System Concepts” McGraw – Hill International Editions, Fourth Edition, 2002.
3. George Koch, Kevin Loney, “Oracle – The Complete Reference”, Tata McGraw Hill, Third Edition, 2001.
4. James Jawroski, “Mastering Java Script”, Tmh 3/e, 2000.
5. D.J. Abadi, “Data Management: Limitations and Opportunities,” IEEE Data Eng. Bull vol. 32, no. 1, pp. 3-12, Mar. 2009.
6. “Microsoft SQL Server”, Solomon, Rankins -SamsPublications, Second Edition.