

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590 018.



PROJECT PHASE – I REPORT

on

“PLACEMENT MANAGEMENT SYSTEM”

Submitted in partial fulfillment of the requirement for the curriculum of the 7th Semester

Bachelor of Engineering

in

Computer Science and Engineering

by

NAVYASHREE NARAYANA BHAT : 1VI17CS063

NETHAJI M GOWDA : 1VI17CS065

RANJITH S : 1VI17CS084

S SHREYES : 1VI17CS087

Under the supervision of

Mrs. Veena G
Assistant Professor



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VEMANA INSTITUTE OF TECHNOLOGY

BENGALURU – 560 034

2020 – 21

Karnataka ReddyJana Sangha®
VEMANA INSTITUTE OF TECHNOLOGY
Koramangala, Bengaluru-34.
(Affiliated to Visvesvaraya Technological University, Belagavi)



Department of Computer Science and Engineering

Certificate

This is to certify that the project (phase – I) entitled “**PLACEMENT MANAGEMENT SYSTEM**” is a bonafide work carried out jointly by **Navyashree Narayana Bhat (1VI17CS063)**, **Nethaji M Gowda (1VI17CS065)**, **Ranjith S (1VI17CS084)** and **S Shreyes (1VI17CS087)**, during the academic year 2020-21 in partial fulfillment of the requirement for the 7th Semester course work for the of **Bachelor of Engineering in Computer Science and Engineering** of the **Visvesvaraya Technological University, Belagavi**. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project phase - I report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said degree.

Guide

Mrs. Veena G

HOD

Dr. M. Ramakrishna

Principal

Dr. Vijayasimha Reddy. B. G

ACKNOWLEDGEMENT

We sincerely thank **Visvesvaraya Technological University** for providing a platform to do the project phase - I.

Firstly, we would like to express our deep sense of gratitude to our institute “**Vemana Institute of Technology**” that provided us an opportunity to do a project phase - I entitled “**PLACEMENT MANAGEMENT SYSTEM**”.

We thank **Dr. Vijayasimha Reddy. B. G**, Principal, Vemana Institute of Technology, Bengaluru for providing the necessary support.

We would like to place on record our regards to **Dr. M. Ramakrishna**, Professor and Head, Department of Computer Science and Engineering for his continued support.

We would like to thank our project coordinators **Mrs. Mary Vidya John**, Assistant Professor and **Mrs. J Brundha Elci**, Assistant Professor, Dept. of CSE for their support and coordination.

We would like to thank our project guide **Mrs. Veena G**, Designation, Dept. of CSE for her continuous support and valuable guidance towards successful completion of the project phase – I.

We would be failing in our duty if we do not thank the faculty members, batch mates, lab staffs, technicians and family members for their constant support and guidance.

	NAVYASHREE NARAYANA BHAT	(1VI17CS063)
Date:	NETHAJI M GOWDA	(1VI17CS065)
Place: Bengaluru	RANJITH S	(1VI17CS084)
	S SHREYES	(1VI17CS087)

ABSTRACT

The project is aimed at developing an application for the “WEB BASED PLACEMENT MANAGEMENT SYSTEM” of the college. The system is an application that can be accessed and effectively used throughout the organization with proper login enabled. This system can be used as an application for the Placement Officers in the college to manage the student information with regard to placement. Student logging should be able to upload their personal and educational information in the form of a resume. The key feature of this project is that it is one time registration enabled. Our project provides the facility of maintaining the details of the students. It reduces the manual work and consumes less paper work to reduce the time. This project is developed with PHP for frontend and MY SQL for backend.

TABLE OF CONTENTS

Chapter No.	Title	Page No.
	Acknowledgement	i
	Abstract	ii
	List of Figures	v
	List of Tables	vi
	List of Abbreviations	vii
	List of Symbols	viii
1.	INTRODUCTION	1
	1.1 Scope	1
	1.2 Objective	2
	1.2.1 Plan of action for the project (timeline chart)	
	1.2.2 Current status of project	
	1.2.3 Proposed plan for completion	
	1.2.4 Outline of the chapters	
2.	LITERATURE SURVEY	4
	(Detailed description of survey done with citations)	
	2.1 Comparative Analysis	6
3	SYSTEM REQUIREMENTS	7
	3.1 Functional Requirements	7
	3.2 Non-Functional Requirements	8

	3.3 Software Requirements	8
4.	DESIGN METHODOLOGY	9
	4.1 System Architecture	9
	4.2 Dataflow Diagram	9
5.	MODULE DESCRIPTION	10
	CONCLUSION	13
	REFERENCES	14

LIST OF FIGURES

Fig. No.	Title	PageNo.
4.1	SYSTEM ARCHITECTURE	9
4.2	CONTEXT LEVEL DATA FLOW DIAGRAM	9
4.3	STUDENT DATA FLOW DIAGRAM	10
4.4	ADMIN DATA FLOW DIAGRAM	11
4.5	HOD DATA FLOW DIAGRAM	12
4.6	PLACEMENT OFFICER DATA FLOW DIAGRAM	13

LIST OF TABLES

Table. No.	Title	PageNo.
2.1	Comparative Analysis	10

CHAPTER 1

INTRODUCTION

The project is aimed at developing an application for the “PLACEMENT MANAGEMENT SYSTEM” for the college. The system is an application that can be accessed and effectively used throughout the organization with proper login enabled.

This system can be used as an application for the Placement Officers in the college to manage the students information with regard to placement. Student logging should be able to upload their personal and educational information.

This web application can help the placement officers to provide the details of upcoming companies. The students will be alerted via a notification. Once the recruitment process is completed, a list of placed students will be uploaded in the application by the administrator. It would be easy for the students to view the details of those who have been recruited.

The number of students placed in a particular company can be viewed by students when required. If any changes is need to be made in the student details the student can make a request to the placement officer. This project will be helpful in faster management of the placement related activities in the college campus.

1.1 Scope

- Our project has a big scope to do.
- Students can access previous information about placement.
- We can stores information of all students.
- Various companies can access their information.
- Notifications are sent to students about the companies.

Applicability

Placement Management System is applicable for the companies and colleges.

1.2 Objectives

1.2.1 Plan of action for the project

TASKS	SEPTEMBER			OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBURARY				MARCH				APRIL			
WEEKS	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Identification of problem statement and survey papers.																															
Comparing with available applications in the market																															
Review 0 presentation																															
Identification of application requirements																															
Identification and designing of data flow diagram, modules																															
Learning suitable languages																															
Review 1 presentation																															
Building UI part																															
Review 2 presentation																															
Phase 1 report presentation																															
Build, Train and Test model																															
Implementing the applications																															

1.2.2 Current Status of the project

The current status of the project is building all the modules for the web application using PHP Language, Started with admin module.

1.2.3 Proposed plan for completion

The proposed plan is to develop a web application for digitalizing the placement drives in colleges.

1.2.3 Outline of the chapters

The chapter Introduction can be used to see what the project is all about. First start by explaining what we are doing, our application is similar to over-the-top platforms. It briefs about the project working about streaming content and facilitates user to publish content and the procedure that has to be carried out.

The chapter Literature Survey deals with the various research papers that have been previously published and also how these papers are relevant to us. This chapter also discuss the various

intricate details that have been included withing each of the research papers about their methodologies.

The chapter System Requirements, as the title suggests it gives out the requirements needed for this project to work hassle free. The requirements needed to specified because, when a customer is planning on purchasing the product, he/she will first check where it is compatible with devices, he/she already has. This is done to prevent people from wasting money on the product and later realizing that it won't work as per their requirements.

The chapter Design Methodology, in this chapter we give the working of the project diagrammatically through system architecture and data flow diagram dividing project into different sections. So that the customer will get clear picture of the project what exactly we are going to do.

The chapter Module Description, in this chapter we give the description of the project on a whole. Each and every part of the work done will be described in this section. Under this section we can give module wise description like, for this project we have payments, user side, admin side and many more.

The chapter Summary, in this chapter we have summarized the entire project working and functionalities user can experience.

The chapter conclusion, present and future, here we give out the conclusion where we state what project has taught us and how it will come to use for other people. We can even state future enhancements where the project can be modified as time progresses and when much more working is required from the project.

CHAPTER 2

LITRETURE SURVEY

PAPER 1:

Smart Training & Placement System (June 2017) Dr.S.B.Vanjale, Rahul Kumar Modi, Supreet Raj , Akshith Jain (Dept:CS, Bharathi Vidyapeeth University , College of Engineering, Pune , Maharashtra , India).

The system focuses on automation of conventional training and placement management system.

The proposed system is a web application comprises of the following modules

- 1) Training and Placement(T&P)
- 2) Student
- 3) company

Challenges in implementing the system

- 1) Notifying the students
- 2) Writing Invites to the companies
- 3) Mailing each and every student about company details and other information.
- 4) Providing list of eligible students as per company format which is different for each

and every company.

Solutions for the above discussed problems

- 1) Notification System.
- 2) Company Format Automation.
- 3) Automated Mailers.

Conclusion : To make the lives of students and administration a little easier by proposing an alternative for the Traditional system being used.

PAPER 2:

Placement Management System based on ASP.NET Technology (Apr -2017) Raghava S, Chethan A, Prathibha B S (Department of ISE, National Institute of Engineering, Mysuru, Karnataka, India)

Placement Management System(PMS) focuses on computerization of placement cell.

- 1) Communicating about the several job openings to the students.

2) Managing the corporate relationship for inviting them for the placements as well as other activities.

3) Monitoring the progress of the selection process and communicating with different users.

Placement Management System provide the facility to eligible students for registration.

With traditional technology of handling placement process, the college students are dependent solely on the placement coordinators, who are prone to irregularities and mistakes.

PMS is a one stop platform for students to prepare for their aptitude and get ready for campus interviews.

Conclusion : Reducing the paperwork and effectively utilizing the technology for the betterment of campus drives.

PAPER 3:

Online Training and Placement Management System (MAR- 2016) Santhosh Kumar H and Mrs. Srividhya V R, Mtech Scholar 4th Sem, Department of CSE AMC Engineering College Bengaluru, India

- The project will include minimum manual work and maximum optimization, abstraction and security.
- Students logging should be able to fill the registration form. The key feature of this project is that it is a onetime registration.
- The application provides the facility of maintaining the details of the students.
- It also provides a requested list of candidates to recruit the students based on given query.
- Major Problems faced :
 - 1) Maximum manual work
 - 2) File system
 - 3) Duplication of files
 - 4) Updating records
 - 5) Synchronization problem
- Solutions :
 - 1) Online Registration
 - 2) Security for Administrator
 - 3) Optimized Sorting of data
 - 4) Hierarchical Structure of departmental data
 - 5) Instant Notification to the student

PAPER 4:**Web Based Placement Management System . Anjali.V (2017) International Journal of Computer Science and Information Technologies**

- The placement cell calls the companies to select their students for jobs via the campus interview. The placement cell allows the companies to view the student resumes in selective manner. They can filter the students profile as per their requirement. The job details of the placed students will be provided by the administrator. The administrator plays an important role in this project. It provides the facility of maintaining the details of the students and gets the requested list of candidates for the company who would like to recruit the students based on given query.
- Feasibility Study
 - 1) Economic Feasibility
 - 2) Technical Feasibility
 - 3) Operational Feasibility
- Different modules included
 - 1) Student
 - 2) Admin
 - 3) Company

2.1 Comparative Analysis

REFERENCE	EXISTING SYSTEM	PROPOSED SYSTEM
[1]	More time consuming	Less time consuming
[2]	Prone to human mistakes	Less prone to human mistakes
[2]	Made campus drives complex	Made campus drives way more easier
[3]	Paper work	Computerized
[3]	Lack of security of data	Data will be secured
[4]	Sometimes may not pass the circular and information among the students on time	It sends notification to students

Table2.1 Comparative Analysis

CHAPTER 3

SYSTEM REQUIREMENTS

3.1 FUNCTIONAL REQUIREMENTS

- **STUDENT:-**

1. Sign in : This service provides the user to enter the personal and education details.
2. Update details: This service provides the user to update their details.
3. Check details: This service provides the user to check his details.
4. Notice: This service provides the user to check for circular uploaded by administrator
5. FAQ: This service provides the user to clarify the doubts.
6. Mailing: This service provides the user to mail to administrator.
7. Change password: This service enables the users to change password.
8. Resume: This service provides the user to view their Resume.

- **ADMINISTRATOR: -**

1. Update details: Allows administrator to update his (college) details.
2. Student details: Allows administrator to search for student information
3. Upload excel mark sheet: Allows to upload excel mark sheet of students.
4. Add employee: Allows administrator to add new employee.
5. Change password: This service enables the administrator to change password.
6. Upload notice: Allows administrator to upload information for students.

- **HOD: -**

1. Approve: Allows HOD to verify the details of the student.
2. Student details: This service allows user to search for student.
3. Notice: This service provides the user to check for circular uploaded by administrator.
4. Mailing: This service provides the user to mail to administrator.
5. View list of placed students.
6. View accepted/rejected list.

- **PLACEMENT OFFICER: -**

1. View students marks.
2. View students accept/reject list
3. Upload placed student list.
4. Post interview details.

3.2 NON-FUNCTIONAL REQUIREMENTS

- **Usability**

The client acknowledges be typical nearly the buyer interfaces and committed to ask for ambush pressure in relocating to a unique framework with another condition.

- **Reliability**

The progressions made by the programmer ought to be obvious both to the Project pioneer and in addition the Test design

- **Security**

Counting bug following the framework must give important security and must secure the entire procedure from slamming

- **Performance**

The framework will be facilitated on a solitary web server with a solitary database server out of sight, consequently execution turns into a noteworthy concern.

- **Portability**

This is required when the web server, which is facilitating the framework stalls out because of a few issues, which requires their framework to be taken to another framework.

- **Reusability**

The framework ought to be separated into such modules that it could be utilized as a piece of another framework without requiring a lot work.

3.3 SOFTWARE REQUIREMENTS

- Operating System – Windows 8, Windows
- Language – Php, Javascript , Html, Css
- Database – MYSQL
- Browser – Any of Mozilla , Opera , Chrome , etc.
- Web Server – Apache 2.*

CHAPTER 4

DESIGN METHODOLOGY

4.1 SYSTEM ARCHITECTURE

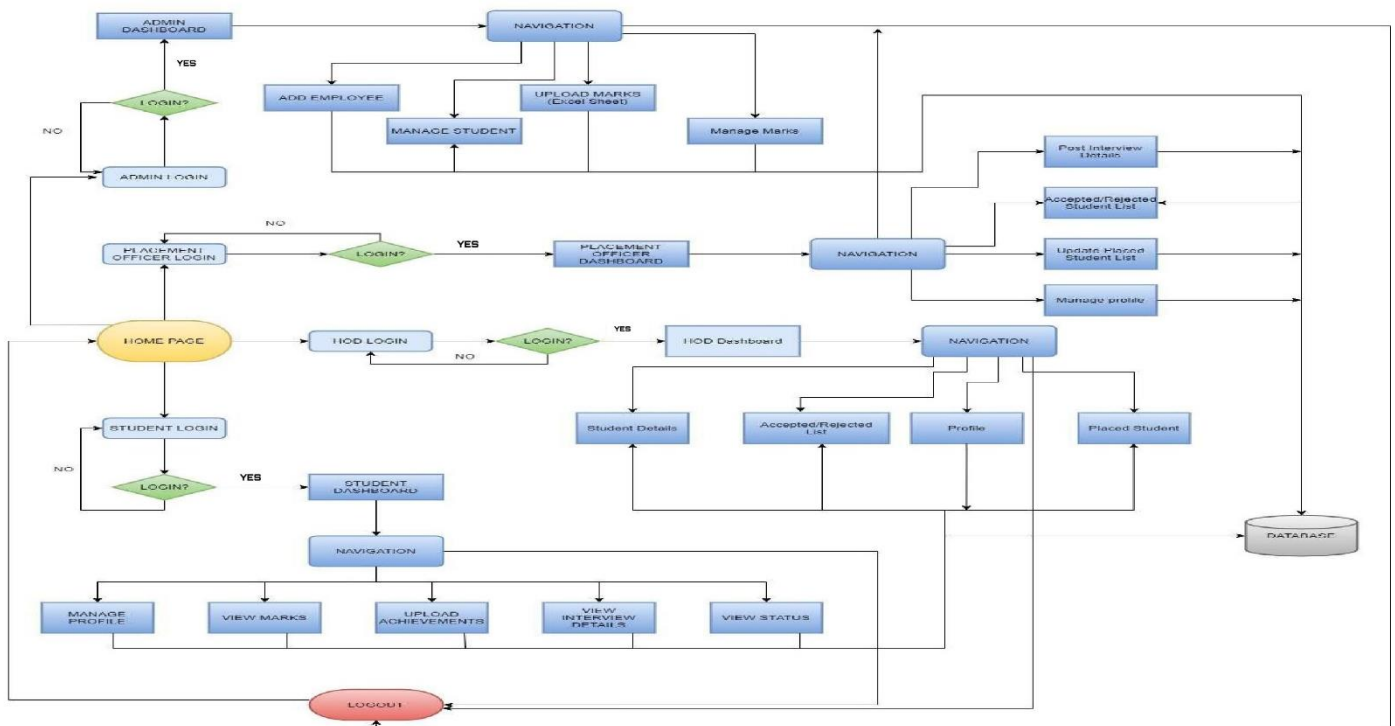


Fig.4.1 System Architecture

4.2 DATA FLOW DIAGRAM

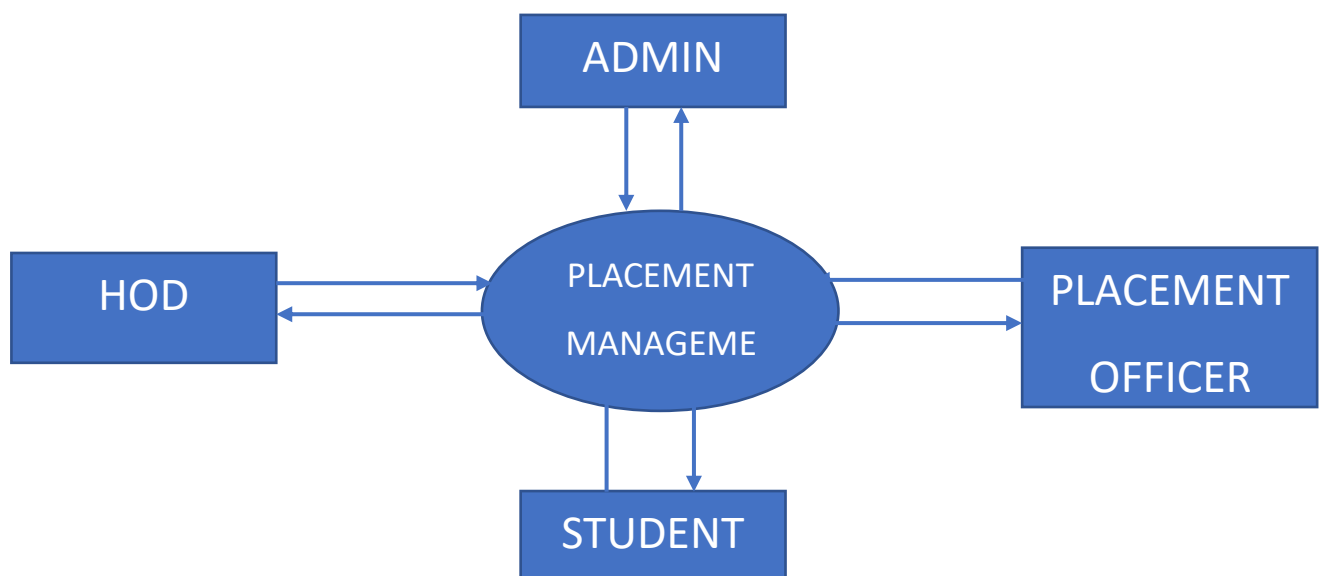


Fig.4.2 Context Level Data Flow Diagram

4.3 MODULES

1. Student Module:

In this module, creation of student input records about academic career from SSLC, HSC and all semester with facilities to modify the records and viewing changed records. The Student views the company details and verifies particular company details and provides valid details for registration. This Module consist of a login option.

The functionalities provided in Students module consist of:

- It helps the Students to update their details anytime.
- The students would be able to view his own marks.
- The students would be able to upload his achievements and certificate will auto generated.
- The students would be able to view the company requirement.
- Students can see the complete profile of the company. Such as recruitment procedure history CTC offer and the working environment.

DFD 1-Level (STUDENT)

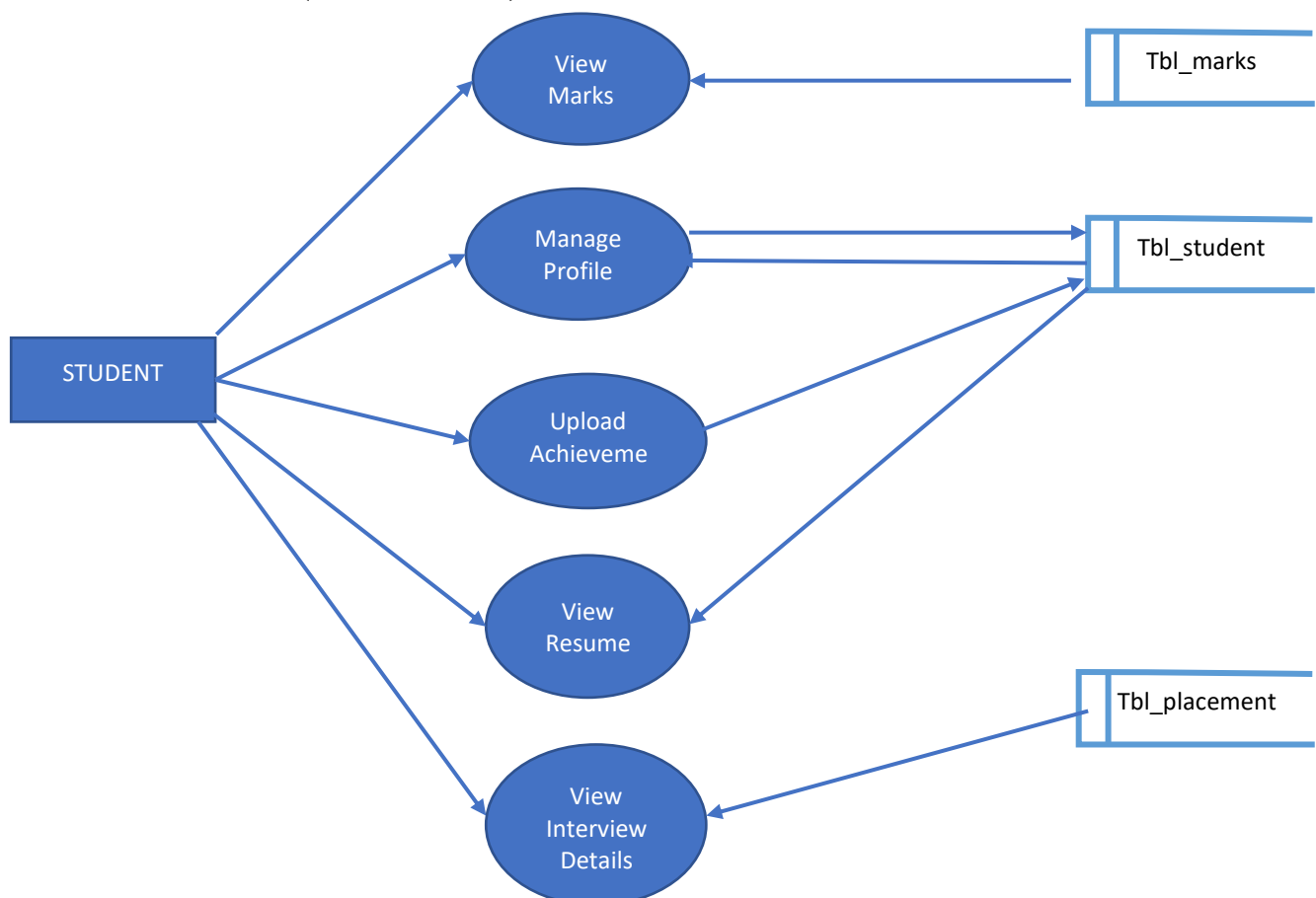


Fig.4.3 Student Data Flow Diagram

2.Admin Module:

The administrator plays an important role in the system. In this module admin will login through username and password, once he logs in he will be directed to the dashboard where he gets the complete details of every student of different courses and departments. The admin can add student list using excel sheet. The admin can also view the complete list of students. Admin can add new employee to system. Admin can upload marks sheet in the form of excel sheet.

DFD 1-Level (Admin)

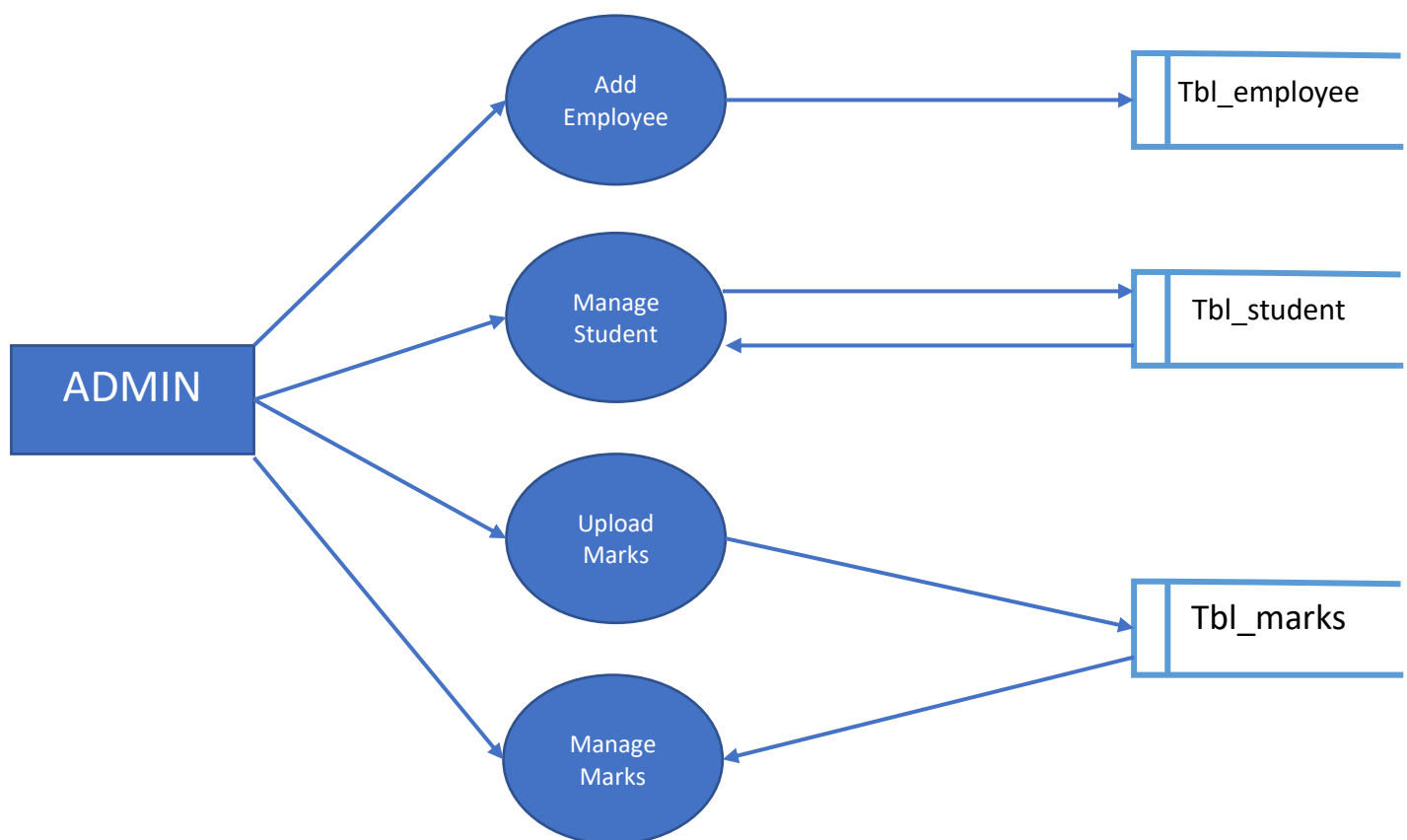


Fig.4.4 Admi Data Flow Diagram

3. Department Module:

The Head of the department (HOD) of respective department can login to the system using username and password. Hod can view students details belonging to that branch and he also can view the accepted and rejected list of students. Hod can view the list of students placed in companies from his department.

DFD 1-Level (HOD)

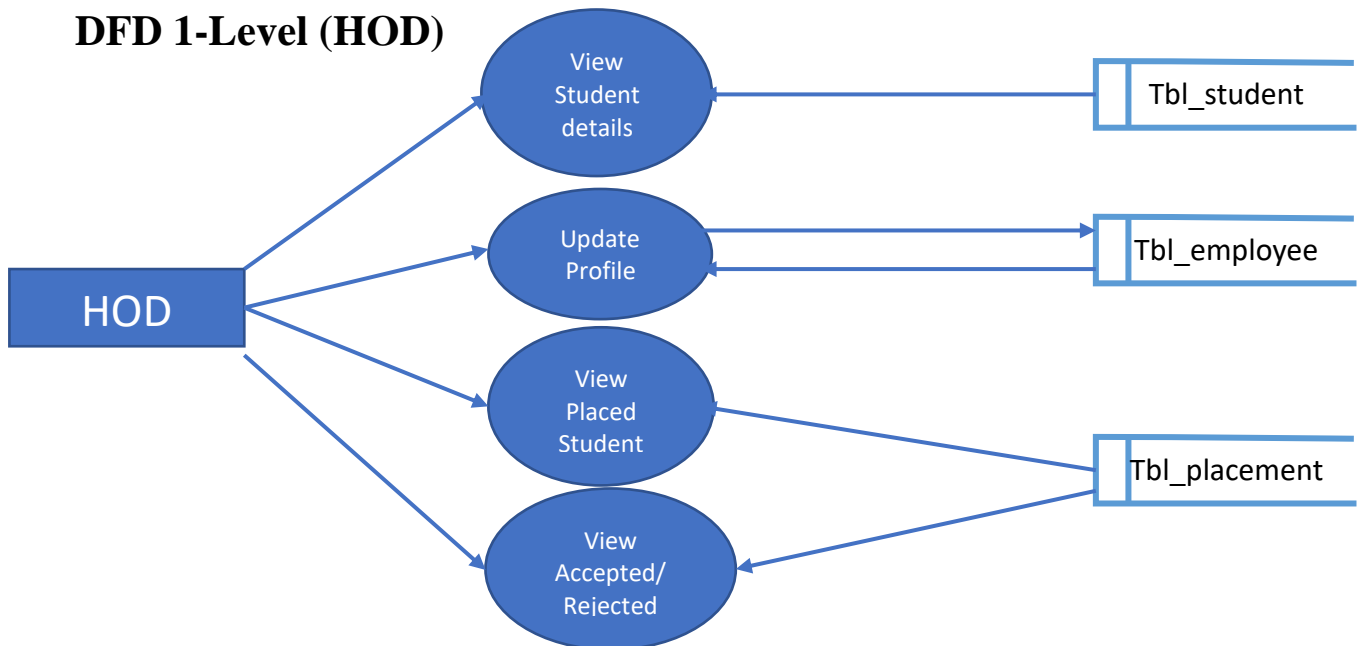
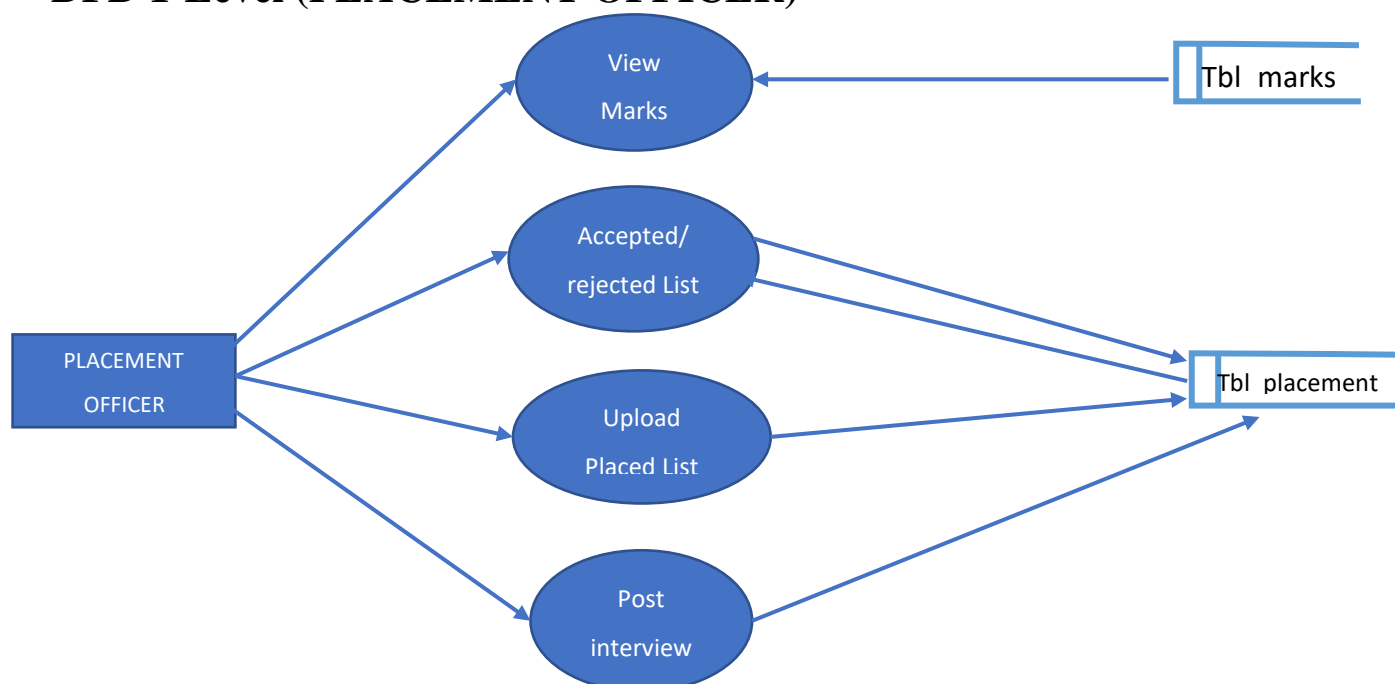


Fig 4.5 HOD Data Flow Diagram

4. Placement Module:

The Placement Module has the authority to manage various functionalities of the system. This module will be handled by the Placement Officer who has the authority to:

- Add company details
- Add interview details
- Filter eligible candidates

DFD 1-Level (PLACEMENT OFFICER)**Fig 4.6 PLACEMENT OFFICER DATA FLOW DIAGRAM**

- Download accepted student list for placement,
- Download rejected student list,
- Update placed student list,
- Update company data.

Overall records of the students will be presented over the portal like the data of all placed and unplaced students which will reduce the bottleneck of confusion among students.

CONCLUSION

Increasing need of comfort and inculcating all the data at one place has always been a challenging process for everybody. With the introduction of this Placement Management System, we promise to make the lives of students and placement administration a little easier by proposing an alternative for the current system being used. Easy accessibility and functioning of this portal will allow easy management of the selection process during placement period. With the increasing demand of digitalization in every aspect of day-to-day activities we can anticipate the great demand for such system in the near future and the comfort it will bring with it to the lives of all. Also the rapidly increasing concerns of global warming

due to increase deforestation for large amount of paper that it requires we here have a minor role to save Mother Nature. So we hope all of you can sit back and relax and enjoy the luxury of Digitalization. More so in this busy and exhausting life we are saving one of the most crucial factor that keeps us running that is human energy.

REFERENCES

- [1] Smart Training & Placement System (IJCST Vol.8,Issue 2, April - June 2017)
Dr.S.B.Vanjale , Rahul Kumar Modi , Supreet Raj , Akshith Jain (Dept :CS ,
Bharathi Vidyapeeth University , College of Engineering , Pune , Maharashtra
, India)
- [2] Placement Management System based on ASP.NET Technology (IRJET
Volume: 04 Issue: 04 | Apr -2017) Raghava S, Chethan A, Prathibha B S
(Department of ISE, National Institute of Engineering, Mysuru, Karnataka,
India)
- [3] Online Training and Placement Management System (ISSN: 2278-0181
Published by, www.ijert.org ICACT - 2016 Conference Proceedings) Santhosh
Kumar H and Mrs. Srividhya V R, Mtech Scholar 4th Sem, Department of CSE
AMC Engineering College Bengaluru, India
- [4] Web Based Placement Management System (Anjali.V et al, / (IJCSIT)
International Journal of Computer Science and Information Technologies, Vol.
7 (2) , 2016, 760-763)