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DBMS PROJECT

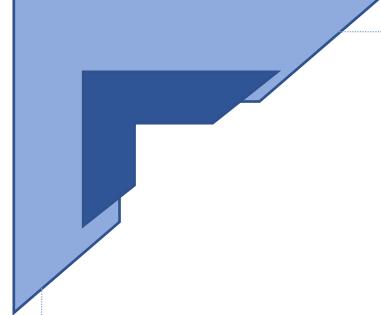
Training and Placement Cell

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11/23/21

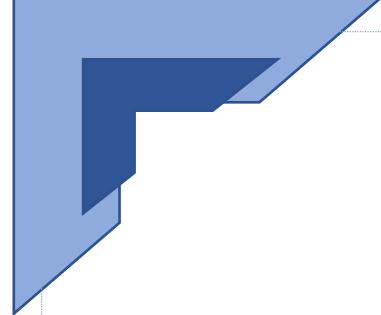


ACKNOWLEDGEMENT

On completion of this project on 'Training and Placement Cell', we take this opportunity to express our genuine gratitude to all those who helped us in various capacities in undertaking this project and devising the report. We also acknowledge the advice and help given to us by our friends.

We are privileged to express our sense of gratitude to our respected professor Dr. Shelly Sachdeva whose unparalleled knowledge and support played a vibrant role in completing this project. We would also extend our acknowledgement to our Teaching Assistants, Ms. Kanika Soni and Mr. Anil Kumar Patel, who stood by us in all pits and falls we had to face during the development phase of this project also for providing their valuable assistance and guidance throughout the process.

This project has been very beneficial for us to learn a lot about Database Management Systems and linked topics. Through this project, we learned a lot about the use and implementation of DBMS in our real world. It has not only helped in broadening our horizons but has also provided us exposure to real-life projects and their usefulness.



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1. CASE STUDY

TnP cell database is mainly created to encourage and guide the students to explore the domains of various career opportunities, entrepreneurship, and helps to enhance functional skills by providing industrial training, industry associated projects. It also enhances employability skills by honing aptitude and communication skills.

The case study aims to design and develop a database for the TnP Cell which will display the data about past recruiters, faculty, research, contact information, login portal, and on top of that it will maintain the records of the placement statistics of the students of the following years. We have tried to amalgamate every service provided under a single hood using the DBMS to maintain the integrity of data, ease the accessing of data and remove data redundancy which will result in a convenient and faster data retrieval system.

The main objective of this project is to build a rigid and robust integrated database system that will track and store records of students related to placements. This easy -to-use, integrated database application is geared towards reducing time spent on administrative tasks. The system is intended to accept process and generate report accurately and any user can access the system at any point in time provided internet facility is available.

2. INTRODUCTION

Fundamentally, it is very difficult to organize the statistics manually, maintenance of all this information manually is a complex task. The TnP Cell Database has been designed to computerize and automate the operations performed over the information about the students, professors, companies and all other operations.

TnP cell database has been made primarily using the concepts of Database Management System. It keeps all records of student's name, father's name, enrolment number, email, current address, permanent address, joining year, placement year, current year, if he/she is a member of TnP cell or not, sex, birthdate, phone number. Along with that it will show information about the head of the TnP cell on the home page and the directors of the college.

The access will be given to few students for editing and updating the data which would basically be the members of the TnP cell in the college and they would be allowed to alter other information and assign them usernames, passwords. Our database will contain record of all companies that came for recruitment with their visiting year and information of alumni of NIT Delhi in which they have a record of the package/CTC offered. Lastly, it will also contain a help desk page where we will be providing the emails and contact details of the university for any query or information.



3. SYSTEM REQUIREMENTS

3.1 HARDWARE REQUIREMENTS:

Assuming that a typical system offers hundreds of entries. The volume of the information to be handled is thus about millions of characters. Further, the whole information has to be processed. All this suggest that the minimum hardware requirements should be: -

- Operating System: Windows 7/8/8.1/10.
- Memory (RAM): 1 GB of RAM or more required.
- Hard Disk Space: 200 MB or more of free space required.
- Processor: Intel Pentium 4 or later.
- Cache: 512KB

3.2 SOFTWARE REQUIREMENTS:

In the development of a project, the selection of an appropriate DBMS Software and a platform is of primary importance. With many software options available a developer has to consider the various features and functionalities and ease of handling the software, keeping an account of such things we decided to use the following software are required: -

- Visual Studio code for designing the front-end, the front-end has been developed by the use of HTML, CSS, and JS.
- SQL has been used as a back-end query language.
- PHP has been chosen as a scripting language.
- Web Browser (Chrome/Edge/Firefox, etc.)
- MySQL

PHP, MYSQL, DBMS

3.3 PHP

PHP is a programming language designed to generate web pages interactively on the computer serving them, which is called a web server. Unlike HTML, where the web browser uses tags and markup to generate a page, PHP code runs between the requested page and the web server, adding to and changing the basic HTML output. PHP makes web development easy because all the code you need is contained within the PHP framework. This means that there's no reason for you to reinvent the wheel each time you sit down to develop a PHP program; it comes with web functionality built-in.

While PHP is great for web application development, it doesn't store information by itself. For that, you need a database. The database of choice for PHP developers is MySQL, which acts like a filing clerk for PHP-processed user information. MySQL automates the most common tasks related to storing and retrieving specific user information based on your supplied criteria. MySQL is easily accessed frump, and they work well together. An added benefit is that PHP and MySQL run on various computer types and operating systems, including Mac OS X, Windows-based PCs, and Linux.

PHP does not have complete native support for Unicode or multibyte strings; Unicode support will be included in PHP 6. Many high-profile open-source projects ceased to support PHP 4 in new code as of February 5, 2008, due to the GoPHP5 initiative, provided by a consortium of PHP developers promoting the transition from PHP 4 to PHP 5. It runs in both 32-bit and 64-bit environments, but on Windows the only official distribution is 32-bit, requiring

Windows 32-bit compatibility mode to be enabled while using IIS in a 64-bit Windows environment. There is a third-party distribution available for 64-bit Windows.

3.3.1 Advantages of Using PHP with MySQL

There are several factors that make using PHP and MySQL together a natural choice:

PHP and MySQL work well together

PHP and MySQL have been developed with each other in mind, so they are easy to use together. The programming interfaces between them are logically paired up. Working together wasn't an afterthought when the developers created the PHP and MySQL interfaces.

PHP and MySQL have open-source power

As they are both open-source projects, PHP and MySQL can both be used for free. MySQL client libraries are no longer bundled with PHP. Advanced users have the ability to make changes to the source code, and therefore change the way the language and programs work.

PHP and MySQL have community support

Both tools active communities on the Web in which you can participate, and the participants will help you answer your questions. You can also purchase professional support for MySQL if you need it.

PHP and MySQL are fast

Their simple and efficient designs enable faster processing.

PHP and MySQL don't bog you down with unnecessary details

You don't need to know all of the low-level details of how the PHP language interfaces with the MySQL database, as there is a standard interface for calling MySQL procedures from PHP.

3.3.2 Speed optimization

As with many scripting languages, PHP scripts are normally kept as human-readable source code, even on production web servers. In this case, PHP scripts will be compiled at runtime by the PHP engine, which increases their execution time. PHP scripts are able to be compiled before runtime using PHP compilers as with other programming languages such as C (the language PHP and its extensions are written in). Code optimizers aim to reduce the computational complexity of the compiled code by reducing its size and making other changes that can reduce the execution time with the overall goal of improving performance. The nature of the PHP compiler is such that there are often opportunities for code optimization, and an example of a code optimizer is the Zend Optimizer PHP extension.

3.4 MYSQL

MySQL is a multithreaded, multi-user SQL database management system (DBMS). The basic program runs as a server providing multi-user access to a number of databases. Originally financed in a similar fashion to the JBoss model, MySQL was owned and sponsored by a single for-profit firm, the Swedish company Mysql now a subsidiary of Sun Microsystem, which holds the copyright to most of the codebase. The project's source code is available under terms of the GNU General Public Licence, as well as under a variety of proprietary agreements.

MySQL is a database. The data in MySQL is stored in database objects called tables. A table is a collections of related data entries and it consists of columns and rows. Databases are useful when storing information categorically. A company may have a database with the following tables: "Employees", "Products", "Customers" and "Orders".

3.4.1 Database Tables

A database most often contains one or more tables. Each table is identified by a name (e.g., "Customers" or "Orders"). Tables contain records (rows) with data.

3.4.1.1 Queries

A query is a question or a request. With MySQL, we can query a database for specific information and have a record set returned.

3.4.1.2 Create a connection to a database

Before you can access data in a database, you must create a connection to the database. In PHP, this is done with the MySQL connect () function

3.5. ASSUMPTIONS:

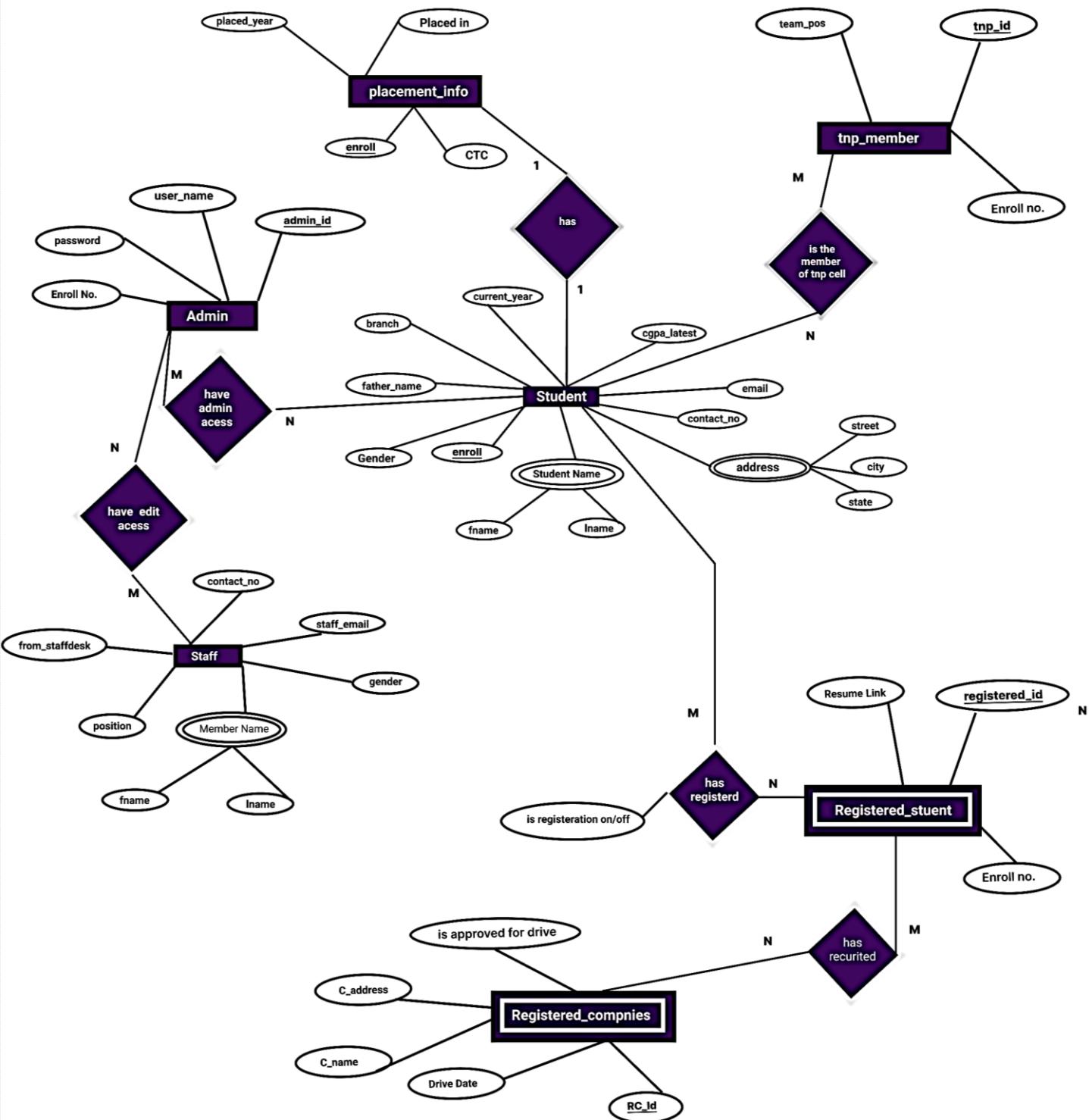
We have taken into consideration the following assumptions while preparing our project for our ease and to reduce errors.

1. There is a single entity named 'orgaddress' which contains the complete address of a company except for country.
2. Past recruiters are completely managed by the admin. Students need to register for placement separately every year.
3. A separate login information row is created for each student when we add a new student to our database. And his/her Enrollment no is a username and s@password are the default password.
4. There are only two staff members' details saved in databases, i.e., Director and Training and placement officer.
5. There is a single entity named 'saddress' which contains the complete address of a student except for country.
6. There is a unique Enroll No. for each student.

DESIGN OF THE PROJECT

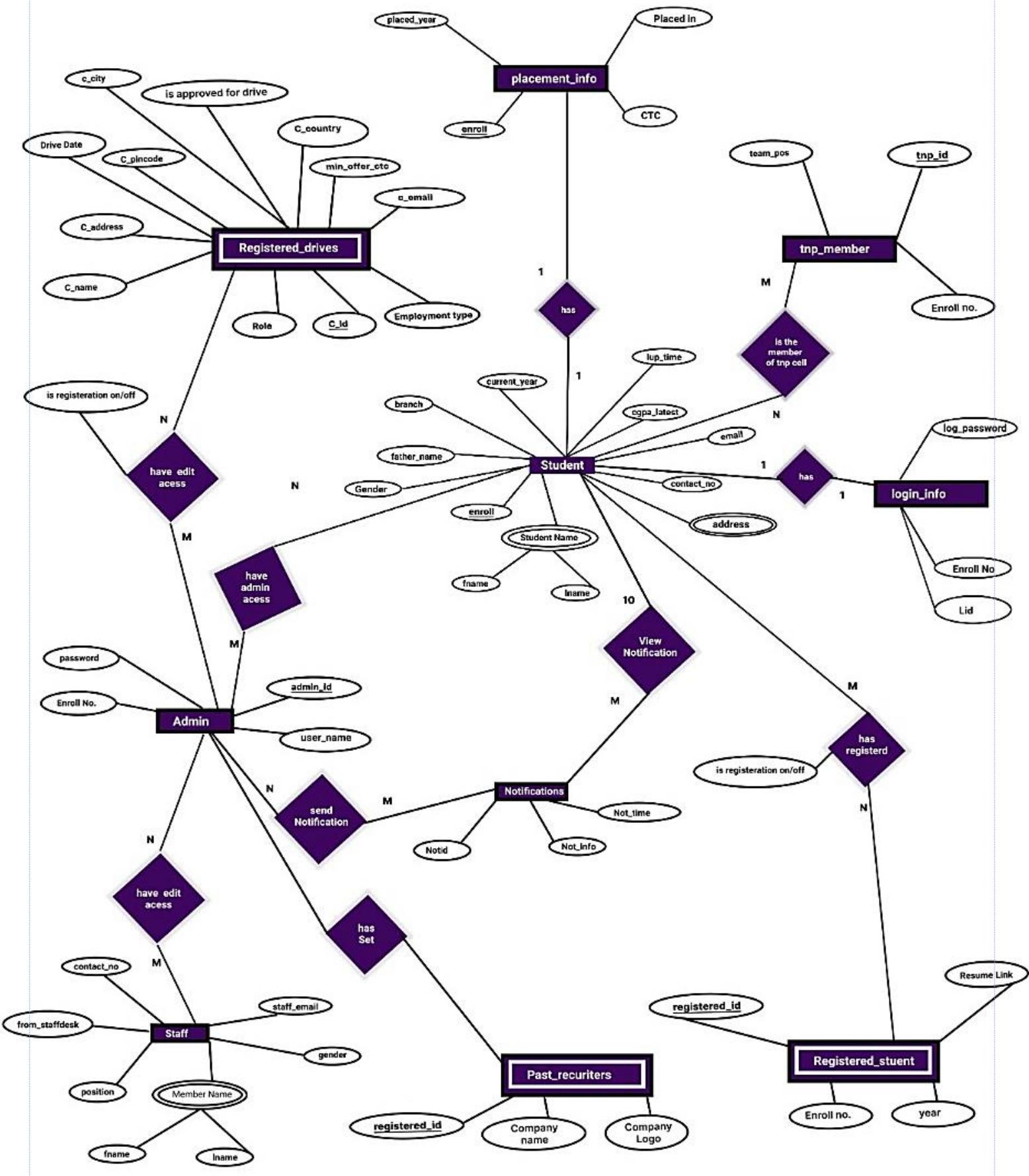
This project has been developed using MySQL software which is queries oriented. Changes at the queries and the way in which it uses a system state may cause anticipated changes in the behaviour of other result.

4. ER DIAGRAM (FORMER)



Figma is a vector graphics editor and we have used it to design our ER diagram, as it's a great way to quickly design, build, and export files for animation and prototyping.

5. ER DIAGRAM (UPDATED)



6. MAPPING FROM ER MODEL TO R MODEL

admin_memb

<u>admid</u>	admusername	admenroll	admpassword	admemail	admdob
--------------	-------------	-----------	-------------	----------	--------

drives

<u>drid</u>	orgname	orgaddress	orgcity	orgcountry	orgpin	orgpemail	orgmcgpa	drdate	maxctclack	emptype	emplrole	isapproved
-------------	---------	------------	---------	------------	--------	-----------	----------	--------	------------	---------	----------	------------

notifi

<u>notid</u>	notinfo	nottime
--------------	---------	---------

pst_reuriter

<u>pstrid</u>	pstrname	pstrlink
---------------	----------	----------

student

<u>stdid</u>	sfname	slname	senrollno	sfathername	saddress	scountry	sccgpa	spno	semail	sbranch	sgender	scyear	srslink	lupdtime
--------------	--------	--------	-----------	-------------	----------	----------	--------	------	--------	---------	---------	--------	---------	----------

tnp_memb

<u>tnpid</u>	tnpenroll	tnppos
--------------	-----------	--------

s_login

<u>logid</u>	logenroll	logpassword
--------------	-----------	-------------

sp_info

<u>spid</u>	spenroll	spsplacecomp	spplaceyear	spplaceetc
-------------	----------	--------------	-------------	------------

staff_memb

<u>name</u>	pno	<u>position</u>	fromdesk	email
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reg_student

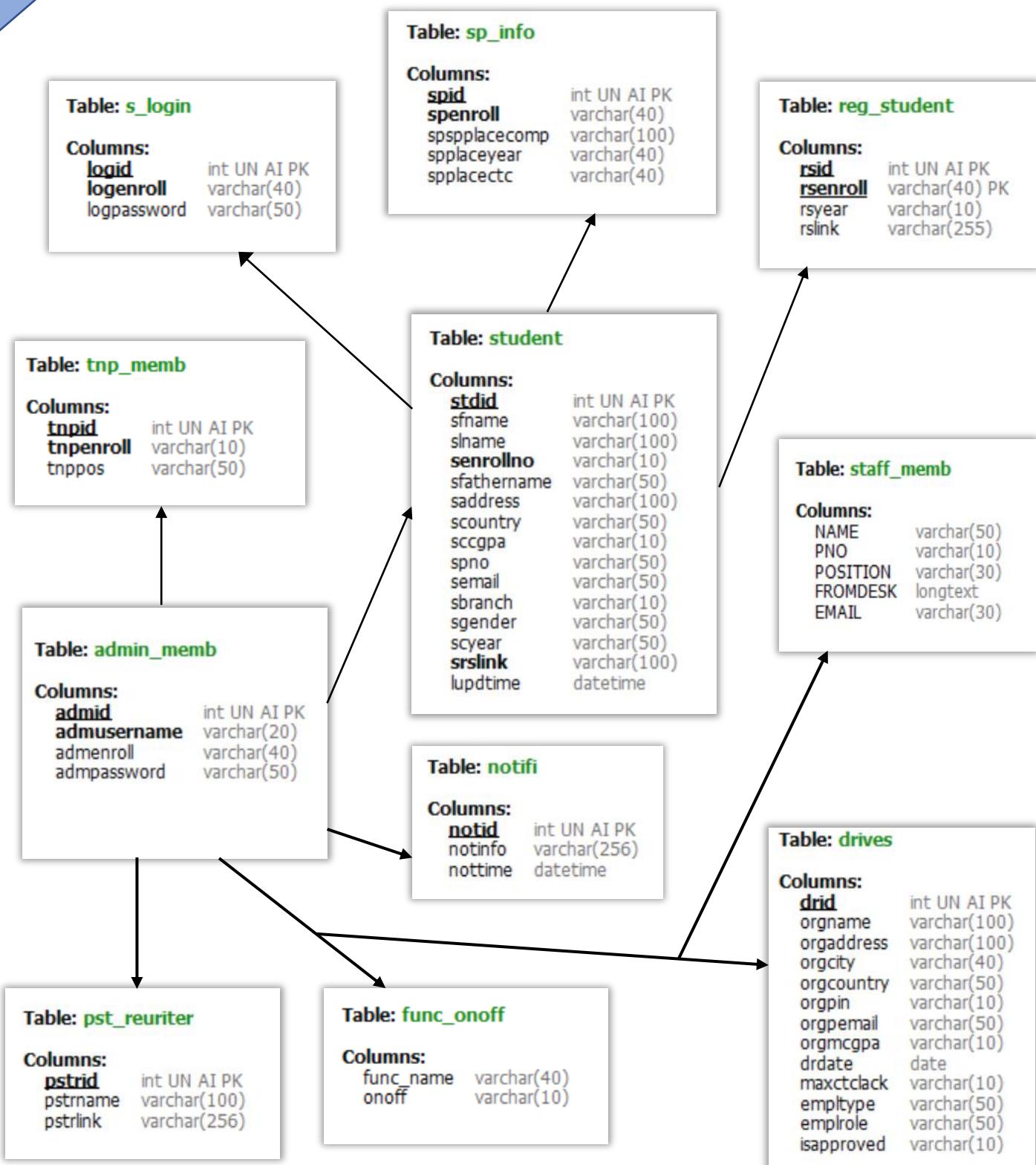
<u>rsid</u>	rsenroll	rsyear	rslink
-------------	----------	--------	--------

func_onoff

<u>func_name</u>	onoff
------------------	-------

Figma is a vector graphics editor and we have used it to design our ER TO R Model, as it's a great way to quickly design contents in a box format. We can use 'Entity Relationship Diagram Template' available on the figma platform to create the model in a very laidback way.

7. RELATIONAL SCHEMA



 We have used MySQL Workbench to develop the relational schema representation as it provides a visual console to easily administer MySQL environments and gain better visibility into databases.

8. DATA DICTIONARY

Table: Admin_memb

Columns in table				
Column	Type	Nullable	Indexes	
admid	int unsigned	NO	PRIMARY	
admusername	varchar(20)	YES	uK_unique_admin_username	
admenroll	varchar(40)	YES		
admpassword	varchar(50)	YES		

Indexes in Table				
Visible	Key	Type	Uni...	Columns
<input checked="" type="checkbox"/>	PRIMARY	BTREE	YES	admid
<input checked="" type="checkbox"/>	uK_unique_admin_u...	BTREE	YES	admusername

Table: Drives

Columns in table				
Column	Type	Nullable	Indexes	
drid	int unsigned	NO	PRIMARY	
orgname	varchar(100)	YES		
orgaddress	varchar(100)	YES		
orgcity	varchar(40)	YES		
orgcountry	varchar(50)	YES		
orgpin	varchar(10)	YES		
orgpemail	varchar(50)	YES		
orgmcgpa	varchar(10)	YES		
drdate	date	YES		
maxctclack	varchar(10)	YES		
emptytype	varchar(50)	YES		
emprole	varchar(50)	YES		
isapproved	varchar(10)	YES		

Indexes in Table				
Visible	Key	Type	Uni...	Columns
<input checked="" type="checkbox"/>	PRIMARY	BTREE	YES	drid

Table: func_onoff

Columns in table				
Column	Type	Nullable	Indexes	
func_name	varchar(40)	YES		
onoff	varchar(10)	YES		

Table: notifi

Columns in table				
Column	Type	Nullable	Indexes	
notid	int unsigned	NO	PRIMARY	
notinfo	varchar(256)	YES		
nottime	datetime	YES		

Indexes in Table				
Visible	Key	Type	Uni...	Columns
<input checked="" type="checkbox"/>	PRIMARY	BTREE	YES	notid

Table: pst_reuriter

Columns in table				
Column	Type	Nullable	Indexes	
pstrid	int unsigned	NO	PRIMARY	
pstrname	varchar(100)	YES		
pstrlink	varchar(256)	YES		

Indexes in Table				
Visible	Key	Type	Uni...	Columns
<input checked="" type="checkbox"/>	PRIMARY	BTREE	YES	pstrid

Table: reg_student

Columns in table

Column	Type	Nullable	Indexes
rsid	int unsigned	NO	PRIMARY
rsenroll	varchar(40)	NO	PRIMARY
rsyear	varchar(10)	YES	
rslink	varchar(255)	YES	

Indexes in Table

Visible	Key	Type	Uni...	Columns
<input checked="" type="checkbox"/>	PRIMARY	BTREE	YES	rsid,rsenroll

Table: s_login

Columns in table

Column	Type	Nullable	Indexes
logid	int unsigned	NO	PRIMARY
logenroll	varchar(40)	YES	FK_roll_login_student
logpassword	varchar(50)	YES	

Indexes in Table

Visible	Key	Type	Uni...	Columns
<input checked="" type="checkbox"/>	PRIMARY	BTREE	YES	logid
<input checked="" type="checkbox"/>	FK_roll_login_student	BTREE	NO	logenroll

Table: staff_memb

Columns in table

Column	Type	Nullable	Indexes
NAME	varchar(50)	YES	
PNO	varchar(10)	YES	
POSITION	varchar(30)	YES	
FROMDESK	longtext	YES	
EMAIL	varchar(30)	YES	

Table: sp_info

Columns in table

Column	Type	Nullable	Indexes
spid	int unsigned	NO	PRIMARY
spenroll	varchar(40)	YES	FK_placeinfo_student
spspplacecomp	varchar(100)	YES	
spplaceyear	varchar(40)	YES	
spplaceetc	varchar(40)	YES	

Indexes in Table

Visible	Key	Type	Uni...	Columns
<input checked="" type="checkbox"/>	PRIMARY	BTREE	YES	spid
<input checked="" type="checkbox"/>	FK_placeinfo_student	BTREE	NO	spenroll

Table: student

Columns in table

Column	Type	Nullable	Indexes
stdid	int unsigned	NO	PRIMARY
sfname	varchar(100)	YES	
slname	varchar(100)	YES	
senrollno	varchar(10)	YES	uK_unique_student_enroll
sfathername	varchar(50)	YES	
saddress	varchar(100)	YES	
scountry	varchar(50)	YES	
sccgpa	varchar(10)	YES	
spno	varchar(50)	YES	
semail	varchar(50)	YES	
sbranch	varchar(10)	YES	
sgender	varchar(50)	YES	
scyear	varchar(50)	YES	uK_unique_student_branch_and_resumelink
srslink	varchar(100)	YES	uK_unique_student_branch_and_resumelink
lupdtime	datetime	YES	

Indexes in Table

Visible	Key	Type	Uni...	Columns
<input checked="" type="checkbox"/>	PRIMARY	BTREE	YES	stdid
<input checked="" type="checkbox"/>	uK_unique_student...	BTREE	YES	senrollno
<input checked="" type="checkbox"/>	uK_unique_student...	BTREE	YES	srslink, scyear

Table: tnp_memb

Columns in table

Column	Type	Nullable	Indexes
tnpid	int unsigned	NO	PRIMARY
tnpenroll	varchar(10)	YES	FK_roll_tnpmember
tnppos	varchar(50)	YES	

Indexes in Table

Visible	Key	Type	Uni...	Columns
<input checked="" type="checkbox"/>	PRIMARY	BTREE	YES	tnpid
<input checked="" type="checkbox"/>	FK_roll_tnpmember	BTREE	NO	tnpenroll

We have used MySQL Workbench for the contents and indexes of the table in the DATA DICTIONARY, as it provides a visual console to easily administer MySQL environments and gain better visibility into databases.



Data dictionaries are used to provide detailed information about the contents of a dataset or database, such as the names of measured variables, their data types or formats, and text descriptions. A data dictionary provides a concise guide to understanding and using the data.

9. SQL QUERIES

S. No.	Operation	Query Syntax	About query
1	INSERT query	<pre>"INSERT INTO admin_memb(admusername,admenroll,admpassword) VALUES('demo30','201219999','demo@admin');"</pre> <hr/> <pre>"INSERT INTO drives(orgname,orgaddress, orgcity,orgcountry,orgpin,dr date,maxctclack,empltype,emplrole)VALUES('Amazon', 'Banglore', 'Banglore', 'India', '200004', '2021-10-25', '20', 'Full time','SDE 2')";</pre> <hr/> <pre>INSERT INTO student(sfname,slname,se nrollno,sfathername,saddress ,scountry, spno,semail,sbra nch,sgender,scyear)VALUES (Demo,Demo ,Demo, 'Demo' , 'sorwa', 'Behror', 'Alwar', 'Rajasthan', 'India' , '9829456261', '201219999@nitdelhi.ac.in', 'CSE','male','2'</pre> <hr/>	<u>inserting a new member as an admin</u> <u>inserting a new drive</u> <u>inserting a new student info</u>

		<pre>"INSERT INTO reg_student(rsenroll,rsyear, rslink)VALUES('201210030', '2','http://mohitk.github.io) ";</pre> <hr/> <pre>insert into s_login(logenroll) value ('201210030');</pre> <hr/> <pre>insert into sp_info(spenroll,spsplacec omp,spplaceyear,spplacectc) value ('201210030','Amazon','201 9','30');</pre>	<u>inserting name of a student in registered student tables</u> <hr/> <u>Inserting a new data in student login</u> <hr/> <u>Inserting a new student placement table</u>
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2	<pre>"SELECT onoff from func_onoff where func_name='driver"';</pre> <hr/> <pre>"SELECT * from tnp_memb";</pre> <hr/> <pre>"SELECT * FROM admin_memb";</pre> <hr/> <pre>SELECT * from reg_student join student on rsenroll=senrollno;</pre> <hr/> <pre>"SELECT *, drdate- CURDATE () AS Datediff from drives where drdate >= CURDATE () order by Datediff ";</pre> <hr/> <pre>"SELECT onoff from func_onoff where func_name='studentr"';</pre> <hr/> <pre>"SELECT * from drives where drid='10002"';</pre> <hr/> <pre>"SELECT * FROM tnp_memb where tnpid='2001"';</pre> <hr/> <pre>SELECT * from drives where isapproved= 'yes' and drdate >= CURDATE()</pre>	<p><u>checking that drive registration is on or off</u></p> <hr/> <p><u>fetching all tnp members' details</u></p> <hr/> <p><u>fetching all admin members' details</u></p> <hr/> <p><u>fetching all Registered student details</u></p> <hr/> <p><u>getting all drives information</u></p> <hr/> <p><u>checking the student registration is on or off</u></p> <hr/> <p><u>selecting a drive with its id</u></p> <hr/> <p><u>selecting a tnp member using its id</u></p> <hr/> <p><u>Selecting all upcoming drives</u></p>
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3	DELETE query	<pre>"DELETE FROM admin_memb where admid='".\$admid."';</pre> <hr/> <pre>"DELETE FROM reg_student where rsid='40003';</pre> <hr/> <pre>"DELETE FROM tnp_memb where tnpid='50004';</pre> <hr/> <pre>"DELETE FROM drives where drid='3005"';</pre>	<u>deleting the data of a member from the admin</u> <u>deleting the data of a registered student</u> <u>deleting the data of the tnpmember from admin</u> <u>deleting the drives</u>
4	UPDATE query	<pre>"UPDATE func_onoff set onoff='on' where func_name='driver"';</pre> <hr/> <pre>"UPDATE func_onoff set onoff='off' where func_name='studentr"';</pre> <hr/> <pre>"UPDATE admin_memb SET admusername='".\$adupun."',admenroll='".\$adupen."',admpassword='mohitk' where admid='".\$admid."';</pre>	<u>turning on/off drive registration for drives</u> <u>turning on/off drive registration for student</u> <u>Updating data of the admin</u>

		<pre>"UPDATE reg_student SET rsyear='3',rslink='mohitk. github.io' where rsid='40009"';</pre> <hr/> <pre>"UPDATE tnp_memb tnppos='student head' where tnpid='40006"';</pre> <hr/> <pre>"UPDATE drives SET orgname='amazon',orgadd ress='behror',orgcity='alw ar',orgcountry='india',orgp in='301701',orgpemail='hr @amazon.in',drdate='22- 7- 2021',maxctclack='10',em pltype='full time', emplrole='sde 2' where drid='20005"';</pre>	<u>updating a new registered student data</u> <hr/> <u>updating a tnp member's data</u> <hr/> <u>updating drives</u>
5	ADVANCED / AGGREGATE Query	<pre>SELECT * from reg_student join student on rsenroll=senrollno where rsenroll like '%2%';</pre>	<u>selecting all students from registered student table where enroll be like 2</u>

```
select avg(spplacectc) as  
avgctc,sbranch from  
sp_info  
join student on  
spenroll=senrollno  
where spplaceyear='2017'  
and  
spplacectc>'0'  
group  
by sbranch  
ORDER BY sbranch ASC;
```

fetching average
ctc of student
placed in different
branches

```
select count(*) as scount,  
sbranch  
from  
student  
join sp_info on  
spenroll=senrollno  
where spplaceyear='2017'  
and spplacectc  
>'0'  
group by sbranch;
```

fetching the no. of
student placed in
year 2017 in
different branches

```
Select * from  
student  
join reg_student on  
rsenroll=senrollno  
where sccgpa >='1';
```

fetching a student
detail; comparing
it with cgpa

```
SELECT * from  
student  
join s_login on  
logenroll=senrollno  
join sp_info on  
spennroll=senrollno  
where  
senrollno='201210030';
```

fetching student
complete
details

```
select count (*) as  
studcount,  
spspplacecomp,pstrname,  
pstrlink  
from sp_info  
left join pst_reuriter on  
spspplacecomp like  
pstrname  
where spspplacecomp is  
not null and spplacectc  
>'0'  
group by spspplacecomp;
```

fetching number of
students in
different
companies

		<pre>SELECT *\nFROM notifi\nORDER BY nottime\nDESC LIMIT 10;</pre>	<p><u>Selecting last 10 notifications send to a student.</u></p>
		<pre>SELECT max(splacectc)\nas maxctc\nFROM sp_info\nwhere splaceyear='2017'</pre>	<p><u>Selecting maximum ctc from students placed in a specific year.</u></p>

QUERIES USED IN TABLE CREATION

```
CREATE SCHEMA TNPSCHEMA;
```

```
CREATE TABLE STAFF_MEMB
(
    NAME VARCHAR(50),
    PNO VARCHAR(10),
    POSITION VARCHAR(30),
    FROMDESK IONGTEXT,
    EMAIL VARCHAR(30)
);
```

```
CREATE TABLE func_onoff(
    func_name varchar(40),
    onoff varchar(10)
);
```

```
CREATE TABLE reg_student(
    rsid int unsigned AUTO_INCREMENT,
    rsenroll varchar(40),
    rsyear varchar(10),
    rslink varchar(255),
    primary key(rsid,rsenroll)
)AUTO_INCREMENT=1001;
```

```
CREATE TABLE tnp_memb(
    tnpid int unsigned AUTO_INCREMENT,
    tnenroll varchar(10),
    tnppos varchar(50),
    primary key(tnpid)
```

```
)AUTO_INCREMENT=20001;

CREATE TABLE admin_memb(
    admid int unsigned AUTO_INCREMENT,
    admusername varchar(20),
    adenroll varchar(40),
    admemail varchar(100),
    admdob date,
    admpassword varchar(50),
    primary key(admid)
)AUTO_INCREMENT=3001;
```

```
CREATE TABLE drives(
    drid int unsigned AUTO_INCREMENT,
    orgname varchar(100),
    orgaddress varchar(100),
    orgcity varchar(40),
    orgcountry varchar(50),
    orgpin varchar(10),
    orgpemail varchar(50),
    orgmcgpa varchar(10),
    drdate date,
    maxctclack varchar(10),
    empltype varchar(50),
    emplrole varchar(50),
    isapproved varchar(10) DEFAULT 'no',
    primary key(drid)
)AUTO_INCREMENT=30001;
```

```
CREATE TABLE student(
    stdid int unsigned AUTO_INCREMENT,
    sfname varchar(100),
    slname varchar(100),
    senrollno varchar(10),
    sfathername varchar(50),
    saddress varchar(100),
```

```
scountry varchar(50),  
sccgpa varchar(10),  
spno varchar(50),  
semail varchar(50),  
sbranch varchar(10),  
sgender varchar(50),  
scyear varchar(50),  
srslink varchar(100),  
lupdtime DATETIME DEFAULT CURRENT_TIMESTAMP,  
primary key(stdid)  
)AUTO_INCREMENT=50001;
```

```
CREATE TABLE s_login(  
    logid int unsigned AUTO_INCREMENT,  
    logenroll varchar(40),  
    logpassword varchar(50) DEFAULT 's@password',  
    primary key(logid)  
)AUTO_INCREMENT=60001;
```

```
CREATE TABLE sp_info(  
    spid int unsigned AUTO_INCREMENT,  
    spenroll varchar(40),  
    spsplacecomp varchar(100),  
    spplaceyear varchar(40),  
    spplacectc varchar(40),  
    primary key(spid)  
)AUTO_INCREMENT=70001;
```

```
CREATE TABLE pst_reuriter(  
    pstrid int unsigned AUTO_INCREMENT,  
    pstrname varchar(100),  
    pstrlink varchar(256),  
    primary key(pstrid)
```

```
)AUTO_INCREMENT=7001;

CREATE TABLE Notifi(
    notid int unsigned AUTO_INCREMENT,
    notinfo varchar(256),
    nottime DATETIME DEFAULT CURRENT_TIMESTAMP,
    primary key(notid)
)AUTO_INCREMENT=80001;
```

CONSTRAINTS

```
ALTER TABLE sp_info
ADD CONSTRAINT FK_placeinfo_student
FOREIGN KEY (spenroll) REFERENCES student(senrollno);
```

```
ALTER TABLE s_login
ADD CONSTRAINT FK_roll_login_student
FOREIGN KEY (logenroll) REFERENCES student(senrollno);
```

```
ALTER TABLE student
ADD CONSTRAINT uK_unique_student_enroll
unique (senrollno);
```

```
ALTER TABLE student
ADD CONSTRAINT uK_unique_student_branch_and_resumelink
unique (srslink,scyear);
```

```
ALTER TABLE admin_memb
ADD CONSTRAINT uK_unique_admin_username
unique (admusername);
```

```
ALTER TABLE admin_memb
ADD CONSTRAINT uK_unique_email_dob
unique (admemail,admdob);
```

```
ALTER TABLE tnp_memb
ADD CONSTRAINT FK_roll_tnppmember
FOREIGN KEY (tnpenroll) REFERENCES student(senrollno);
```

10. POPULATED TABLES

TnP member table:

tnpid	tnpenroll	tnppos
3	201210030	Student Coordinator
NULL	NULL	NULL

Admin table:

admid	admusername	adenroll	admemail	admdob	admpassword
3001	mohitk30	201210030	mohitmkkumar98@gmail.com	2002-07-02	mohit@admin
3002	demo		demoup1@gmail.com	2003-06-18	demo
3003	annvisomani		annvi@gmail.com	2004-06-09	annnvi
NULL	NULL	NULL	NULL	NULL	NULL

Staff table:

NAME	PNO	POSITION	FROMDESK	EMAIL
Dr. Praveen Kumar	1000000000	Director	Being the Director of an Institution of National I...	director@nitdelhi.a
Dr. Kapil Kumar	1000000000	Training and Placement Officer	NIT Delhi has been able to carve a niche for itse...	tnp@nitdelhi.ac.in

Student placement info table:

spid	spenroll	spsplacecomp	splaceyear	splaceetc
1	201210030	NULL	NULL	NULL
4	201210005	xyz	2017	33
10	201210000	Amazon	2017	50
11	20000000	Google	2017	23
12	200000121	swwigy	2017	33
NUL	NUL	NUL	NUL	NUL

Student information table:

stdid	sfname	slname	senrollno	sfathername	saddress	scountry	sccgpa	spno	semail
1	Mohit	Kumar	201210030	Balwant Singh	Sorwa	India	13	mohit.admin@gmail.com	
4	Annvi	somani	201210005	none	Behror	India	10	23	mohit.admin@gmail.com
10	Demo	Demo	201210000	none	Sorwa	India	10	1230456987	demo@demo.com
11	Mayankiya	Thomas	20000000	Nikhil Thomas	Jaipur	India	7	117	Thomas@gmail.com
12	Olivia	Walker	200000121	James Walker	Sorwa	India	7	148	Walker@google.com
NUL	NUL	NUL	NUL	NUL	NUL	NUL	NUL	NUL	NUL

Student login information table:

logid	logenroll	logpassword
1	201210030	s@password
4	201210005	s@password
10	201210000	s@password
11	20000000	s@password
12	200000121	s@password
NUL	NUL	NUL

Registered student table:

rsid	rstenroll	rsyear	rslink
4	201210005	3	http://mohitk05.github.io
6	201210055	4	http://mohitk55.github.io
NULL	NULL	NULL	NULL

Past recruiters table:

pstrid	pstrname	pstrlink
7004	Tokopedia	https://www.freepnglogos.com/uploads/logo-to...
7005	Monster.com	https://seekvectorlogo.com/wp-content/upload...
7006	Oracle	https://cdn.worldvectorlogo.com/logos/oracle-1...
7007	Ixigo	https://www.adgully.com/img/400/201804/ixigo...
7008	Paytm	https://www.logo.wine/a/logo/Paytm/Paytm-Lo...
7009	Magicbricks	https://www.track2realty.track2media.com/wp-...
7010	Analog Devices	https://www.logo.wine/a/logo/Analog_Devices/...

Notification table:

notid	notinfo	nottime
80009	Again a new large notification to check how two...	2021-11-03 21:49:22
80010	Here is an Announcement of Dewali. So Happy ...	2021-11-04 12:45:27
80011	Dream11 OnCampus Drive is approved and is g...	2021-11-04 22:30:29
80012	bharat pe OnCampus Drive is approved and is g...	2021-11-11 21:35:48
80013	Test Anouncement!!!!😊😊😊😊	2021-11-11 22:34:44
80014	phone pe OnCampus Drive is approved and is g...	2021-11-13 16:14:19
80015	Swiggy OnCampus Drive is approved and is goin...	2021-11-16 12:12:35
NUL	NUL	NUL

Function table:

func_name	onoff
studentr	off
driver	on

Drive registration table:

drid	orgname	orgaddress	orgcity	orgcountry	orgpin	orgpemail	orgmcgpa	drdate	maxctdack
30001	Swiggy	Jaipur	Jaipur	India	302005	hr@swiggy.in	10	2021-11-07	14
30003	Dream11	Jammu	Jammu	India	4222227	hr@dream11.com	9	2021-11-07	13
30004	Swiggy	Jaipur	Jaipur	India	302005	hr@swiggy.com	NULL	2021-12-04	42
30005	phone pe	Jaipur	Jaipur	India	302005	hr@phonepe.com	NULL	2021-11-30	12
30006	bharat pe	Jaipur	Jaipur	India	302005	hr@bharatpay.com	NULL	2021-12-02	8
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

We have used MySQL Workbench for the population of data in the POPULATED TABLES, as it provides a visual console to easily administer MySQL environments and gain better visibility into databases.



Data Population allows you to write to a database (SQL or Oracle) the desired application data value. Identifying the size, structure and distribution of a population is essential for planning development related works in a database. This reduces human error and may save hours of manual entry labour.

The data must be in the same order as the fields listed in the insert statement, and all fields requiring data must be present.

11. DB CONNECTIVITY

The database has been connected to the frontend user interface using PHP as the scripting language.

```
<?php
// mysql> CREATE USER 'tnpuser'@'localhost' IDENTIFIED BY
'password';
// Query OK, 0 rows affected (0.13 sec)
// mysql> GRANT ALL PRIVILEGES ON * . * TO
'tnpuser'@'localhost';
// Query OK, 0 rows affected (0.08 sec)
// mysql> FLUSH PRIVILEGES;
// Query OK, 0 rows affected (0.09 sec)
// Create connection

// $conn = mysqli_connect($hostname, $username,
// $password,$db);

function db_connect(){
    $hostname = "demo";
    $username = "root";
    $password = "";
    $db = "tnpmysqli";
    $connection1=mysqli_connect($hostname,$username,$password
,$db);
    conform_db_connect();

    return $connection1;
}
// Check connection
// if (!$conn) {
//     die("Connection failed: " . mysqli_connect_error());
// }
// echo "Connected successfully";
```

The code for establishing the connection...

```
function conform_db_connect(){
    if(mysqli_connect_errno()){
        $mes="here is an error ";
        $mes.=mysqli_connect_error();
        $mes.=" ( ".mysqli_connect_errno()." ) ";
        exit($mes);
    }
}
function db_disconnect($connection1){
    if(isset($connection1)){
        mysqli_close($connection1);}
}
?>
```

The above code serves to establish the connection between the backend (database) and frontend (user interface).

The PHP codes corresponding to each functionality being implemented are mentioned along with the respective functionality in the following pages.

12. FUNCTIONALITIES

Following are the functionalities implemented in the project along with their respective backend PHP codes:

1. HOME PAGE: The home page is common for both the students as well as the staff, i.e., the main page of TnP cell.

```
<a class="nav-link dropdown fs-5 navitems" href="/comapny&form.php">Recruits us</a>
</li>
<li class="nav-item " >
    <a class="nav-link mx-auto fs-5 navitems" href="/placeready.php">Students</a>
</li>

<li class="nav-item dropdown leftmargin">
    <a class="nav-link dropdown-toggle fs-5" href="#" id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-expanded="false">
More
</a>
    <ul class="dropdown-menu bg-light some-shadow" aria-labelledby="navbarDropdown">
        <li><a class="dropdown-item dropli fs-5" href="/tnpmembers.php">TnP Members </a></li>
        <li><a class="dropdown-item dropli fs-5" href="/company.php">Past Recruiters </a></li>

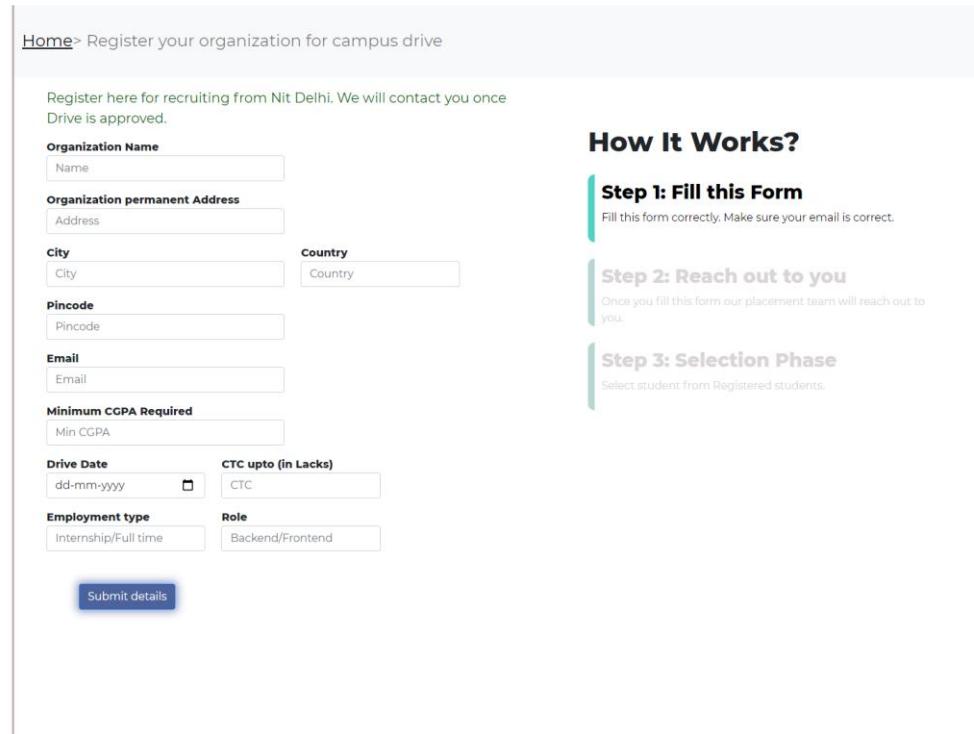
        <li><a class="dropdown-item dropli fs-5" href="/upcomingDrive.php">Upcoming Drives </a></li>

    </ul>
</li>
<li class="nav-item " >
    <a class="nav-link mx-auto navitems fs-5" href="#contact">Contact</a>
</li>
<li class="nav-item dropdown leftmargin2 ">
    <a class="nav-link dropdown-toggle fs-5 px-4 login-outline-buton2" href="#" id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-expanded="false">
Login
</a>
    <ul class="dropdown-menu bg-light some-shadow" aria-labelledby="navbarDropdown">
        <li><a class="dropdown-item dropli fs-5" href="/checkstudent.php">Students Login </a></li>

        <li><a class="dropdown-item dropli fs-5" href="/checkadmin.php">Admin Login </a></li>

    </ul>
</li>
```

2. CAMPUS DRIVE REGISTRATION: Below is the form used by the organisations to register for campus drive.



The screenshot shows a registration form for campus drives. At the top, there's a breadcrumb navigation: Home > Register your organization for campus drive. A sub-instruction says: "Register here for recruiting from Nit Delhi. We will contact you once Drive is approved." The form fields include:

- Organization Name**: A text input field labeled "Name".
- Organization permanent Address**: A text input field labeled "Address".
- City**: A text input field labeled "City".
- Country**: A text input field labeled "Country".
- Pincode**: A text input field labeled "Pincode".
- Email**: A text input field labeled "Email".
- Minimum CGPA Required**: A text input field labeled "Min CGPA".
- Drive Date**: A date input field labeled "dd-mm-yyyy".
- CTC upto (in Lacks)**: A text input field labeled "CTC".
- Employment type**: A dropdown menu with options "Internship/Full time" and "Role".
- Role**: A dropdown menu with options "Backend/Frontend".

At the bottom right is a blue "Submit details" button.

How It Works?

Step 1: Fill this Form

Fill this form correctly. Make sure your email is correct.

Step 2: Reach out to you

Once you fill this form our placement team will reach out to you.

Step 3: Selection Phase

Select student from Registered students.

```
if(!$result_setadmd){  
    echo "notdone";  
}  
header("Refresh:0");  
header('refresh5; url=/upcomingDrive.php');  
  
?  
<nav class="navbar navbar-light bg-light ">  
<div class="container-fluid nav-in-company">  
    <span class="navbar-text fs-4 ">  
        <a href="/" class="text-decoration-underline"> Home</a>> Register your organization for campus drive  
    </span>  
</div>  
</nav>  
<section class="d-flex flex-row">  
    <div class="w-50 mx-5">  
        <p class="mt-3" > <span class="mt-3 mb-2 fs-5 pt-4 <?php echo $cre['onoff']=='on'?'green-color':'red-color'; ?>"> <?php echo $cre['or  
        <form method="post" autocomplete="off" action="comapnyRform.php">  
        <div class="form-row d-flex flex-row mt-3">  
  
            <div class="form-group col-md-6">  
                <label class="bold-label" for="inputOrgName">Organization Name</label>  
                <input type="text" class="form-control" id="inputOrgName" name="orgnam" placeholder="Name" required>  
            </div>  
            <div class="form-group col-md-6 mt-3">
```

3. UPCOMING PLACEMENT DRIVES:

Below are the list of companies which come to college for recruitment. All the companies that are approved for recruitment by the admin and TnP members.

The screenshot shows a web page titled "Upcoming Placement Drives". It lists four companies with their details:

- amazon**
Address: Jaipur, India, 302005
Job: Full time, Full stack Engineer
Email: hr@amazon.in
Date: 2021-11-24
Max CTC (in lacks): 8
Min CGPA: 8
- phone pe**
Address: Jaipur, India, 302005
Job: full time, SDE 3
Email: hr@phonepe.com
Date: 2021-11-30
Max CTC (in lacks): 12
Min CGPA: 8
- bharat pe**
Address: Jaipur, India, 302005
Job: internship, backend
Email: hr@bharatpay.com
Date: 2021-12-02
Max CTC (in lacks): 8
Min CGPA: 8
- Swiggy**
Address: Jaipur, India, 302005
Job: full time, sde 1
Email: hr@swiggy.com
Date: 2021-12-04
Max CTC (in lacks): 42
Min CGPA: 8

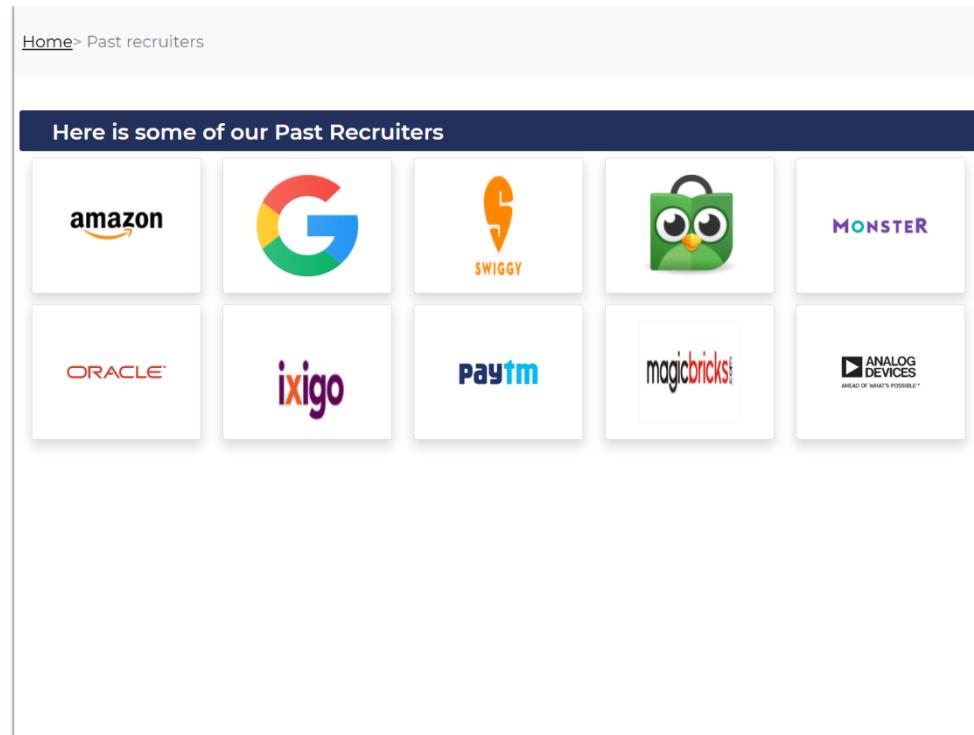
```
// foreach($company as $comp)
while($drives=mysqli_fetch_assoc($result_setdrives))
{ ?>
<div class="card mx-4 mt-5 shadow" style="width: 17rem;">
<div class="alert alert-success" role="alert">
<i class="far fa-clock"></i>
<?php
$redclass="red-col-text";
if($drives['Datediff']==0){
echo "<span class= ".$redclass."> Happening Today</span>";
}else{
echo $drives['Datediff']." days later";
}

?>
</div>
<div class="card-body ">
<h5 class="card-title bold-label"><?=$drives['orgname']?></h5>
<p class="card-text"> Address: <?=$drives['orgaddress']?>,&ampnbsp <?=$drives['orgcountry']?>,&ampnbsp <?=$drives['orgpin']?> </p>
<h6 class="card-subtitle mb-2 text-muted">Job :<?=$drives['empltype']?>,<?=$drives['emplrole']?></h6>

<a href="javascript:void(0);> Email: <?=$drives['orgpemail']?></a><br>
<a href="javascript:void(0);> Date: <?=$drives['drdate']?></a><br>
<a href="javascript:void(0);> Max CTC (in lacks): <?=$drives['maxctclack']?> </a><br>
<a href="javascript:void(0);> Min CGPA: <?=$drives['orgmcgpa']?> </a>
</div>
```

4. PAST RECRUITS:

Below are the organisations/companies which visited the college in the previous years.



```
?>
<tbody>
  <?php
    while($coms=mysqli_fetch_assoc($result_sets))
    { ?>
      <tr >
        <th scope="row" class="px-5"> <?php echo $coms['pstrname'] ?></th>
        <td> <?php echo $coms['pstrlink'] ?></td>
        <td> <a href="/cruds/updateastr.php?pstrid=<?php echo $coms['pstrid'];?>"><button class="btn btn-primary"> Update</button></a></td>
        <td> <button onclick="deleteastrid(<?php echo $coms['pstrid'];?>)" class="btn btn-danger">Delete</button> </td>
      </tr>
    <?php }?>
  </tbody>
</table>
```

5. ANNOUNCEMENTS: Here we can see the complete information and updates of various recruiting companies. All type of notifications will appear here.

[Back > All Announcements](#)

All Notifications

These Notifications reaching to All students. And they can only see last 5 notifications.

Date and Time:
2021-11-22 11:23:11

Message:
amazon OnCampus Drive is approved and is going to held on 2021-11-24 for Full time Full stack Enginner role. For further queries Contact HR at hr@amazon.in

Date and Time:
2021-11-22 11:23:01

Message:
New announcement is here!!

Date and Time:
2021-11-16 12:12:35

Message:
Swiggy OnCampus Drive is approved and is going to held on 2021-12-04 for full time sde 1 role. For further queries Contact HR at hr@swiggy.com

Date and Time:
2021-11-13 16:14:19

Message:
phone pe OnCampus Drive is approved and is going to held on 2021-11-30 for full time SDE 3 role. For further queries Contact HR at hr@phonepe.com

Date and Time:
2021-11-11 22:34:44

Message:
Test Announcement!!! 😊😊😊

Date and Time:
2021-11-11 21:35:48

Message:
bharat pe OnCampus Drive is approved and is going to held on 2021-12-02 for internship backend role. For further queries Contact HR at hr@bharatpay.com

Date and Time:
2021-11-04 22:30:29

Message:
DreamIT OnCampus Drive is approved and is going to held on 2021-11-07 for Full time SDE 1 role. For further queries Contact HR at hr@dreamit.com

Date and Time:
2021-11-04 12:45:27

Message:
Here is an Announcement of Dewali. So Happy Dewali !!!

Date and Time:
2021-11-03 21:49:22

Message:
Again a new large notification to check how two or more lines look to a student. So here we go!!!

Date and Time:
2021-11-03 21:44:24

Message:
I am sending it from the browser.

Date and Time:
2021-11-03 21:20:45

Message:
This is a notification 7 for those who are eligible for placement

Date and Time:
2021-11-03 21:15:52

Message:
This is a notification 6 for those who are eligible for placement

```

    |   </span>
    | </div>
</nav>
<section>
<div class="px-5 pt-2 mx-2 fromdirectorheading" > All Notifications</div>
<h5 class="p-4">These Notifications reaching to All students. And they can only see last 5 notifications.</h5>
<?php

?>
<div id="main-drives-div" class="p-5 d-flex flex-wrap">

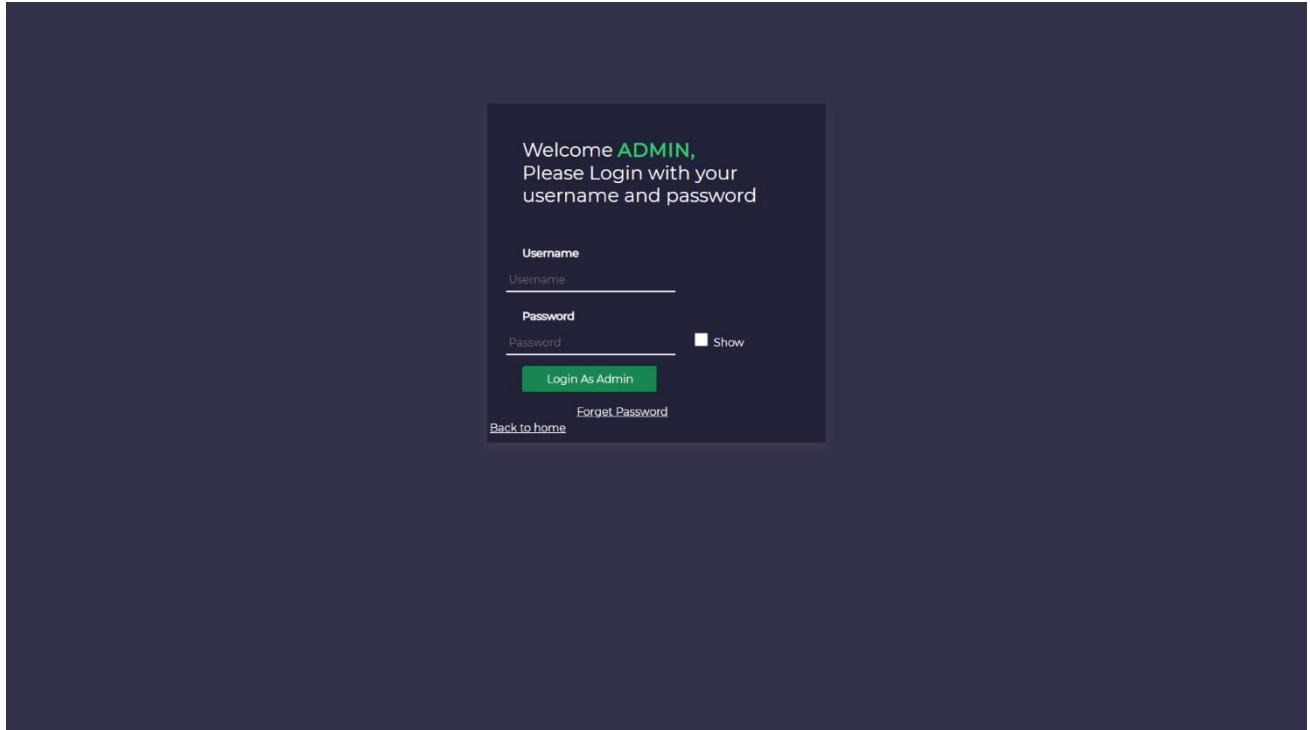
<?php
    while($notef=mysqli_fetch_assoc($result_setnot))
    { ?>
        <div class="card mx-4 mt-5 shadow" style="width: 17rem;">

        <div class="card-body ">
            <h5 class="card-title bold-label">Date and Time:<br><?= $notef['nottime'] ?></h5>

            <h6 class="card-subtitle mb-2 text-muted">Message:<br>
            <?=$notef['notinfo'] ?>
        </h6>

        </div>
    
```

6. ADMIN LOGIN PAGE: The admin(s) of the page can login from here.



```
<div class="grey-bg" >

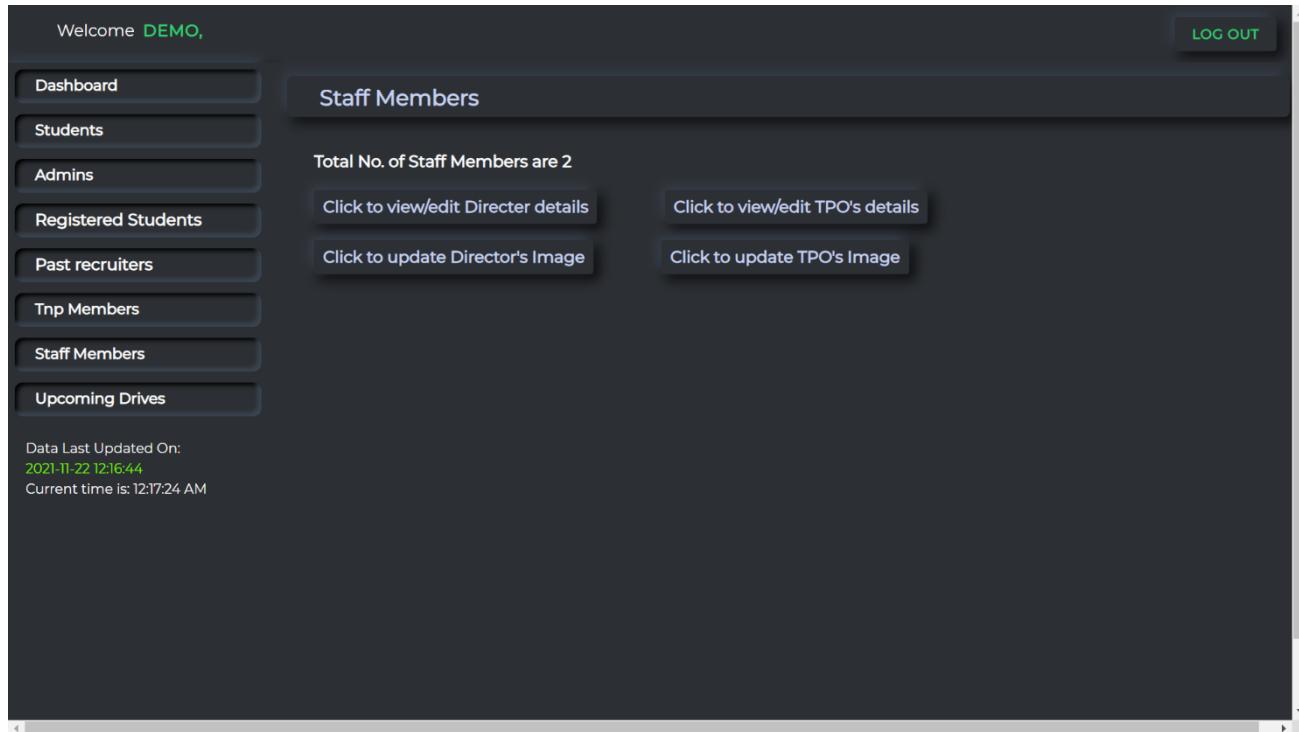
<div class="login-in-div">
|   <div class="wrongpass-div">
|?php
|if($count=="1"){
|   include('wrongpassAlert.php');
//echo "wrong password!!! Try again in 2 second";
}

?>
</div>
<h3 class="p-5 " >Welcome <span class="light-green-text">Admin,</span> <br>Please Login with your username and password</h3>
<form method="post" autocomplete="off" action="checkadmin.php" name="signin-form">
<div class="form-element">
<label class="mx-5 "> <strong> Username</strong></label><br>
<input class="input-in-admin mx-4 " id="admuser" type="text" placeholder="Username" name="username" value="" pattern="[a-zA-Z0-9]+" required><br>

<div class="form-element">
<label class="mx-5 "> <strong> Password</strong></label><br>
<input class="input-in-admin mx-4 " id="admpass" type="password" placeholder="Password" value="" name="password" required />
<!-- check box -->
<input type='checkbox' id='toggle' style="height: 20px; width: 20px;" value='0' onchange='togglePassword(this);'>&ampnbsp <span id='toggleText'>
<!-- check box end -->
</div>
<button class="btn-success rounded login-admin-btn mx-5 mt-3" type="submit" name="register" value="register">Login As Admin</button>
```

Select Indentation

7. STAFF MEMBERS: Here the admin can view and edit the details of staff members.



```
</div>
<div id="div-staf" class="admin-boxes animat-divs">
<div class="px-5 pt-2 mx-2 fromdirectorheadin admin-buttons"> Staff Members</div>

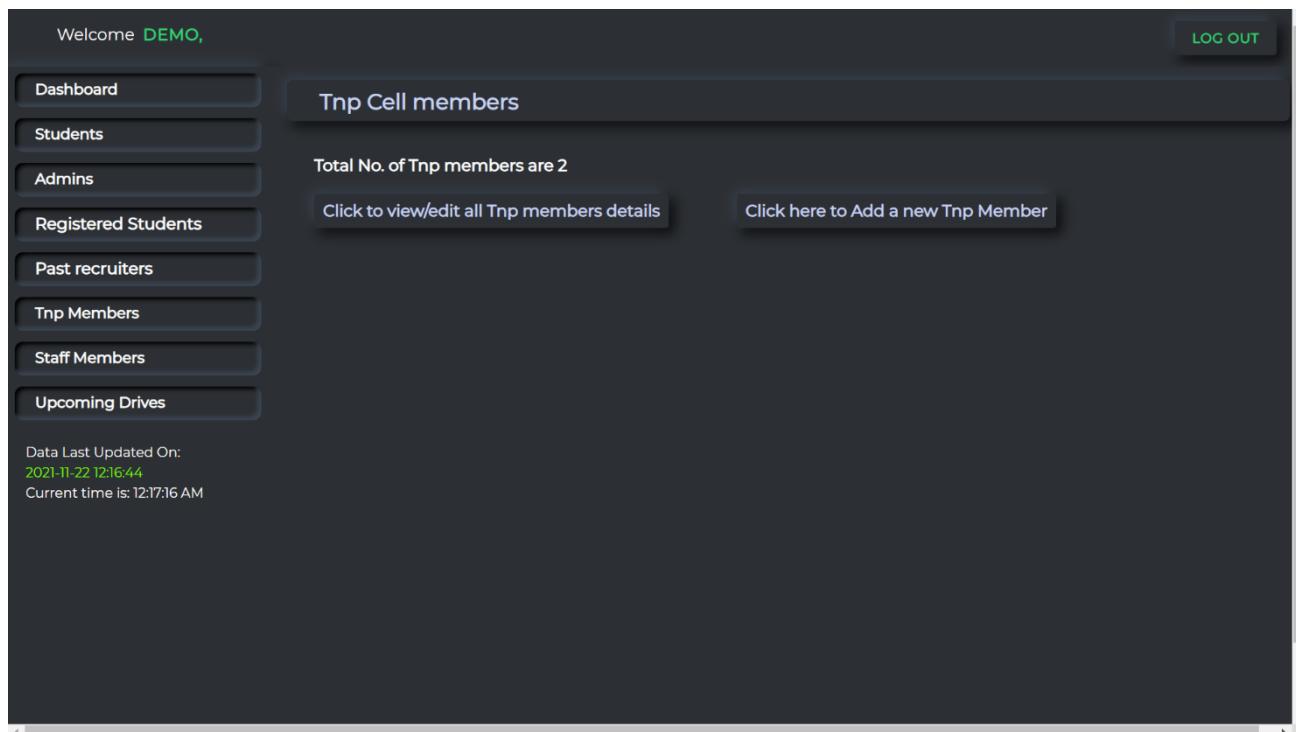
<div class="w-100">

<div class="pt-5"><span class="p-5 fs-4 mt-5"><strong>Total No. of Staff Members are 2</strong></span></div>

</div>
<div class="w-100 pt-4 mx-auto">
  <button class="btn admin-buttons mx-5" onclick="showoeditdir()"> <span class="fs-4 fw-bold"> Click to view/edit Director details</span>
  <button class="btn admin-buttons mx-5" onclick="showoeditppo()"> <span class="fs-4 fw-bold"> Click to view/edit TPO's details</span><
  <a href="uploads/uploadimagedirector.php"> <button class="btn admin-buttons mx-5 mt-4 "> <span class="fs-4 fw-bold"> Click to update D
  <a href="uploads/uploadimageppo.php"> <button class="btn admin-buttons mx-5 mt-4 "> <span class="fs-4 fw-bold"> Click to update TPO's Im

</div>
```

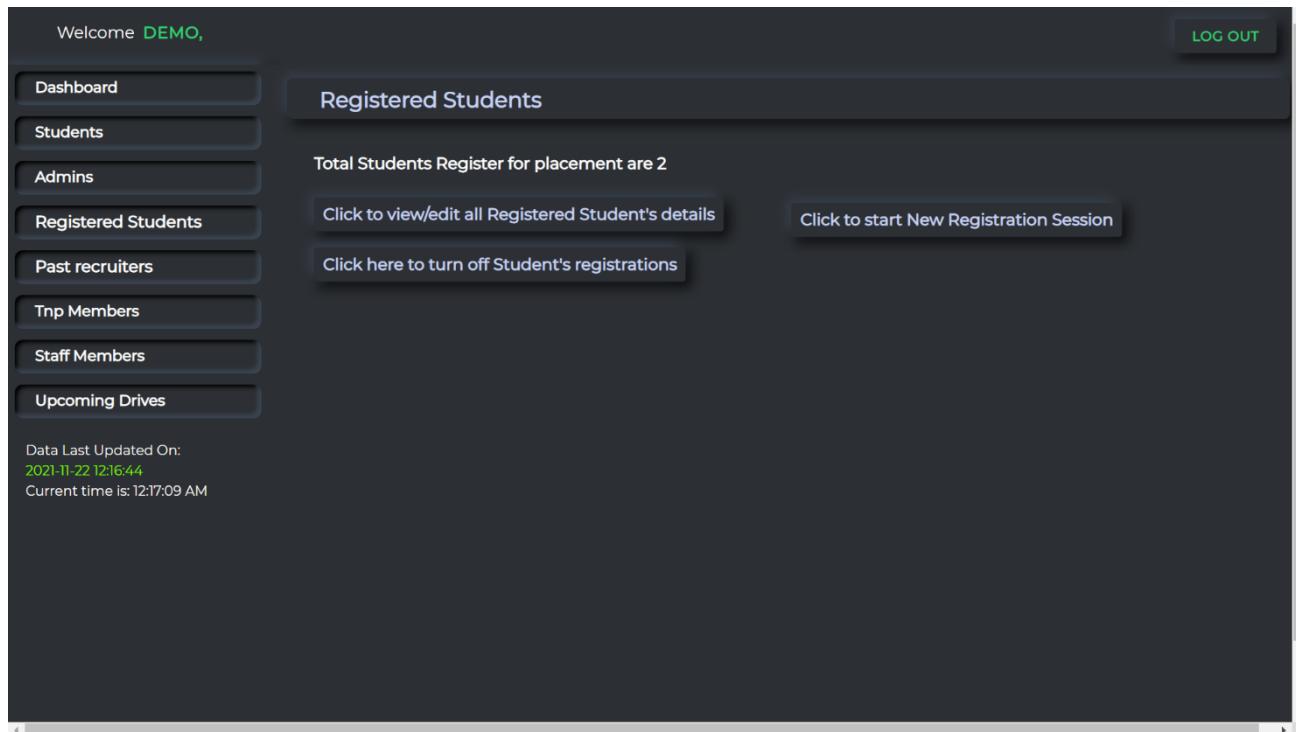
8. TNP CELL MEMBERS: Here we can view, edit the details of TnP members and also, we can add the details of new TnP members.



```
</div>
<div id="div-tnpm" class="admin-boxes animat-divs">
<div class="px-5 pt-2 mx-2 fromdirectorheadinf admin-buttons"> Tnp Cell members</div>

    <div class="w-100">
        <div class="pt-5"><span class="p-5 fs-4 mt-5"><strong>Total No. of Tnp members are <?= $countmemtnp; ?></strong></span></div>
    </div>
    <div class="w-100 pt-4 mx-auto">
        <a href="tnpmemberslist.php"> <button class="btn admin-buttons mx-5 "> <span class="fs-4 fw-bold"> Click to view/edit a </span> </button> </a>
        <a href="/newforms/newtnpmemb.php"> <button class="btn admin-buttons mx-5 "> <span class="fs-4 fw-bold" onclick=""> Cli </span> </button> </a>
    </div>
</div>
```

9. REGISTERED STUDENTS: Here we can view the details of students who registered for the recruitment and we can add a new registration session and turn on/off the registrations.



```
?>
    </div>
</div>
<?php
db_disconnect($dbsadm);
?>

</div>
<div id="div-rstud" class="admin-boxes animat-divs">
<div class="px-5 pt-2 mx-2 fromdirectorheadinf admin-buttons p-3"> Registered Students</div>
    <div class="w-100">
        <div class="pt-5 "><span class="p-5 fs-4 mt-5"><strong>Total Students Register for placement are <?=$countregs;?></strong><
        </div>
        <?php
        // function select(){
```

10. ADMIN: Here we can add a new admin and we can also view, delete and update the details of admins.

On the left-hand side it will show the quick access to a couple of links as well as the last upgradation time.

The screenshot shows a dark-themed web application interface. On the left, there is a vertical sidebar with several buttons: Dashboard, Students, Admins, Registered Students, Past recruiters, Tnp Members, Staff Members, and Upcoming Drives. At the top right, there is a "LOG OUT" button. The main content area is titled "Admin". It displays a message "Total Admin are 4" and a button "Click here to add a new Admin". Below this is a table listing four administrators:

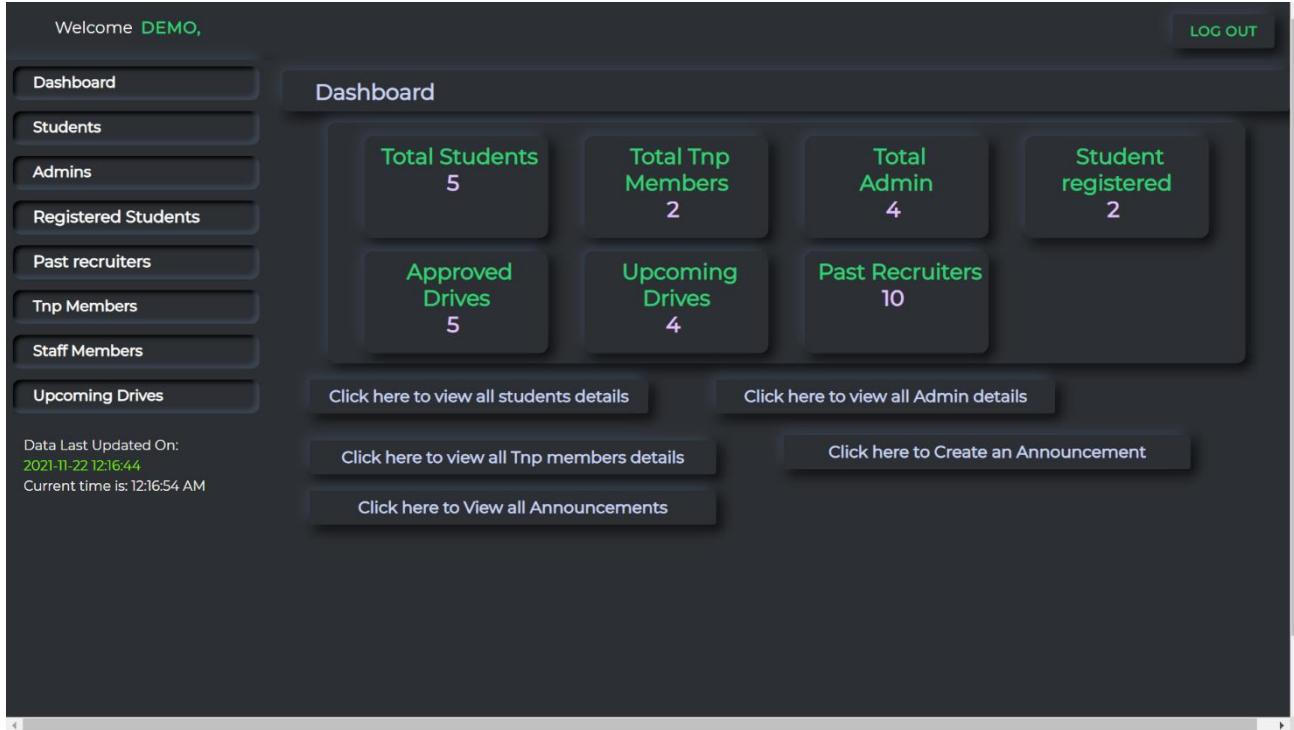
Admin Username	Admin Enroll No.	Admin Password	Update	Delete
mohitk30	201210030	mohit@admin	<button>Update</button>	<button>Delete</button>
demo		demo	<button>Update</button>	<button>Delete</button>
annvisomani		annvi	<button>Update</button>	<button>Delete</button>
annvi		annvi	<button>Update</button>	<button>Delete</button>

At the bottom left, there is a timestamp: "Data Last Updated On: 2021-11-22 12:16:44" and "Current time is: 12:17:05 AM".

```
</div>
<div id="div-adm" class="admin-boxes animat-divs">
<div class="px-5 pt-2 mx-2 fromdirectorheadinf admin-buttons"> Admin</div>
    <div class="w-100">

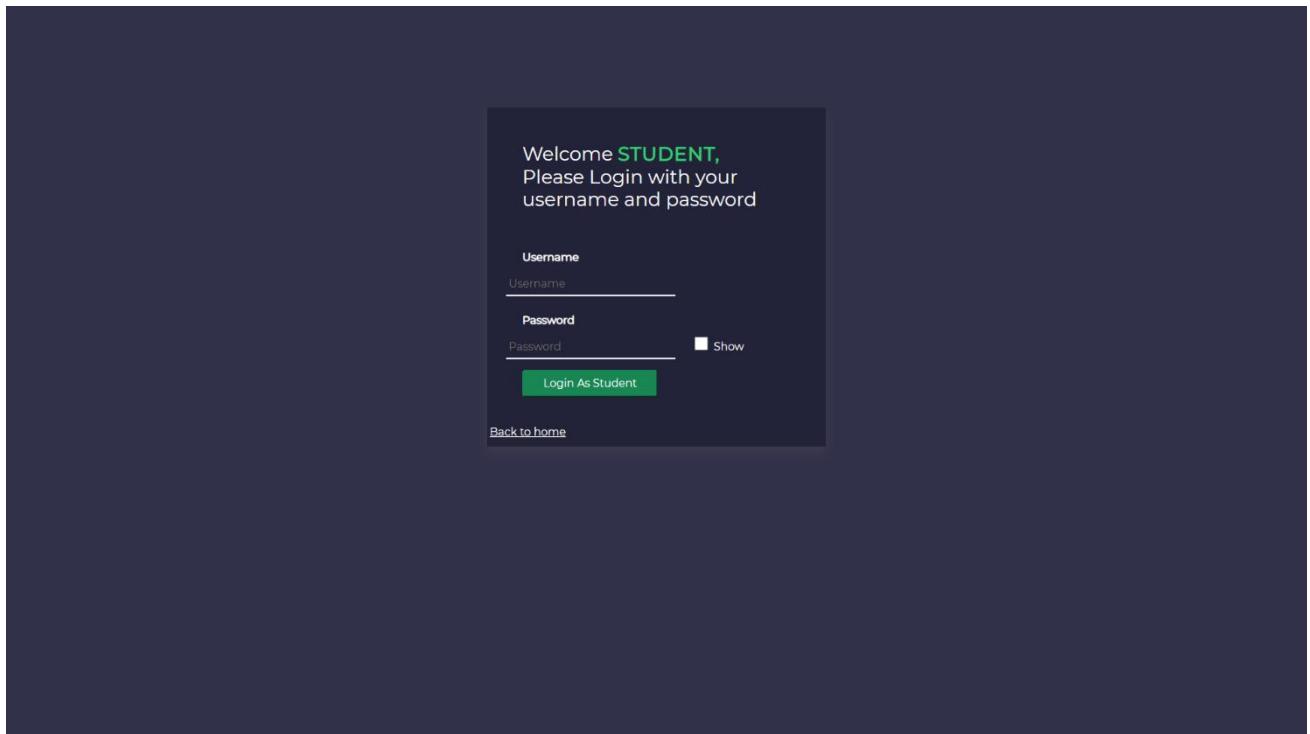
        <div class="pt-5"><span class="p-5 fs-4 mt-5"><strong>Total Admin are <?=$countadmn;?></strong></span></div>
    </div>
    <div class="w-100 pt-4 mx-auto">
        <!-- <a href="/adminList.php"> <button class="btn btn-success mx-5 " > <span class="fs-4 fw-bold"> Click to view/edit all Ad
            <button class="btn admin-buttons mx-5 " onclick="showAddAdmin()"> <span class="fs-4 fw-bold" > Click here to add a new A
            <div class="my-2" style="height:440px;overflow-y:auto;">
            <?php
                include('includers/adminListsm.php');
            ?>
        </div>
    </div>
```

11. DASHBOARD: Here we can view the summary of all the details in the website and some links are attached as well for easy access.



```
<div id="div-dash" class="admin-boxes p-3 animat-divs">
<div class="px-5 pt-2 mx-2 fromdirectorheadinf admin-buttons"> Dashboard</div>
<div class="info-dash mx-auto d-flex flex-wrap" style="margin-top: 17px;">
    <div class="square-boxs">
        <span class="box-heading">
            Total Students <br> <span class="counts" ><?=$countstud;?></span>
        </span>
    </div>
    <div class="square-boxs">
        <span class="box-heading">
            Total Tnp Members <br> <span class="counts" ><?=$countmemtnp;?></span>
        </span>
    </div>
    <div class="square-boxs">
        <span class="box-heading">
            Total Admin <br> <span class="counts" ><?=$counttadmn;?></span>
        </span>
    </div>
    <div class="square-boxs">
        <span class="box-heading">
            Student registered <br> <span class="counts" ><?=$countregis;?></span>
        </span>
    </div>
    <div class="square-boxs">
        <span class="box-heading">
            Approved Drives <br> <span class="counts" ><?=$countapprd2;?></span>
        </span>
    </div>
</div>
```

12. STUDENT LOGIN PAGE: Below is the login page for student. Where he/she can login using its username and password.



```
</head>
<body>
    <?php
    $count="";
Function is_submited_post(){
    return $_SERVER['REQUEST_METHOD']=='POST' ;
}

if(isset($_POST['username'])){
    require('connection.php');
    $dbs=db_connect();
    $user=$_POST['username'];
    $pass=$_POST['password'];

    $query="SELECT * FROM s_login where logenroll='".$user."' AND logpassword='".$pass."'";
    | $result_set=mysqli_query($dbs,$query);
    // $uname="mohit";
    // $upass="mohit";

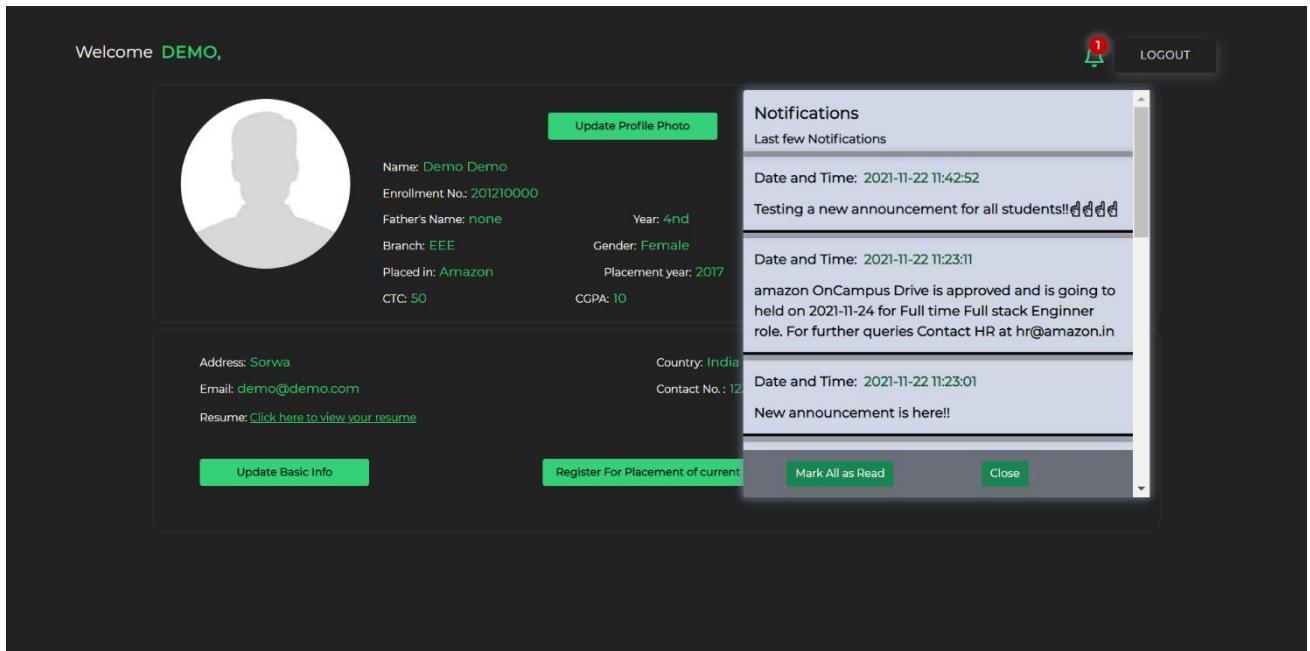
    // $variables['username'] = $user;
    // $variables['password'] = $pass;

    $countnoofadmin=mysqli_num_rows($result_set);
    if($countnoofadmin==1){
        $variables['username'] = $user;
        $variables['password'] = $pass;
        // echo $query;
    }
}
```

13. STUDENT PROFILE:

Below is the profile page of the student.

- ⊕ Details of the student can be updated here.
- ⊕ From here the student can register for the companies for recruitment.
- ⊕ All the notifications and upcoming events are notified here.



```
<section id="main-student-section">

<div class="d-flex flex-row">

<div class="p-4 mx-5 d-flex flex-row ">    Welcome &nbsp; <span class="light-green-text"> <?=$std['sfname'];?>, </span></div>
<div class="ms-auto mx-5 p-2">
    <div class="dropdown-bo align-self-center pt-3">
        <i onclick="OpenNotifications(<?=$std['senrollno'];?>)" class=" dropdown-mes far green-icon fa-2x fa-bell">
            <span class="<?php if($notremcount['con']=="0"){echo "d-none";}?> position-absolute top-25 mx-4 start-50 translate-middle badge rounded-pill bg-light py-2 px-2">
                <?php
                    $urmes=$notremcount['con'];
                    if($urmes>2){echo "2+";}else{echo $urmes;}
                ?>
                <span class="visually-hidden">unread messages</span>
            </span>
        </i>
        <div id="notdrop" class="dropdown-content-mes">
            <div class="mx-auto p-3 not-head">Notifications<br>
                <span class="not-head-small">Last few Notifications</span>
            </div>
            <?php
                while($notidata=mysqli_fetch_assoc($result_sets6))
                { ?>
            <!-- repeated div -->
            <div class="p-3 not-main-div mt-2">
```

14. STUDENT BASIC INFORMATION:

Below is the form used for updating the basic information of the student.

Update student basic information

*First Name	Demo		
*Enroll No.	201210000		
Address	Sorwa		
Contact No.	1230456666	Email	demo@demo.com
Resume Link	http://mohitk00.github.io		

```
$srlink=$_POST['srlinks'];

$query1="UPDATE student SET saddress='".$address."', spno='".$spno."', semail='".$semal."', srslink='".$srlink."' where senroll=$result_setupsb=mysqli_query($dbs,$query1) or die("Couldn't execute query:<br>".mysqli_error($dbs) );

if(isset($result_setupsb)){
    echo '<script>alert("Data Updated")</script>';
} else{
    echo '<script>alert("Data Not Updated")</script>';
}

header('refresh:5');
// header("Refresh:0");
// header('refresh:5; url=upcomingDrive.php');

}
?>
<?php
include_once('../backlink.php');
?>
<nav class="navbar navbar-light bg-light " >
<div class="container-fluid nav-in-company">
<span class="navbar-text fs-4 ">
    <!-- <a href=<? //=$admlink ?>" class="text-decoration-underline"> Back</a>> --> Update student basic information
</span>
</div>
</nav>
```

15. PASSWORD UPDATION BY STUDENT:

Below is the form used for updating the password.

Update 201210000 Password

*Enroll No.	201210000	*Password	s@password
-------------	-----------	-----------	------------

```
$query="UPDATE s_login SET logpassword='".$spass."' where logenroll='".$enrol."'";
$result_setadmdup=mysqli_query($dbadmp,$query);
$query2="SELECT * From s_login where logenroll='".$enrol."'";
$result_setadmdup2=mysqli_query($dbadmp,$query2);
$result_setadmdup23=mysqli_fetch_assoc($result_setadmdup2);

// echo "done go back";
// $_SERVER["REQUEST_METHOD"] ="";
if(isset($result_setadmdup23)){
echo '<script>alert("Data Updated")</script>';
// echo "<script>alert(\".Password Updated\");</script>";
| | header('refresh:0');
}
else{
| | echo '<script>alert("Data not Updated")</script>';
}
| }

?>
<div class="mx-auto w-50 pt-5">
| | <h5>Update <?= $enrol?> Password</h5>
<form method="post" action="">
<div class="form-row mt-3">
```

16. PHOTO UPDATION: Below is the page displayed for updating profile photo, where it can be browsed from the computer.



```
// If upload button is clicked ...
if (isset($_POST['upload'])) {
    // Get image name
    $image = $_FILES['image']['name'];
    // Get text
    $image_text = mysqli_real_escape_string($db, $_POST['image_text']);

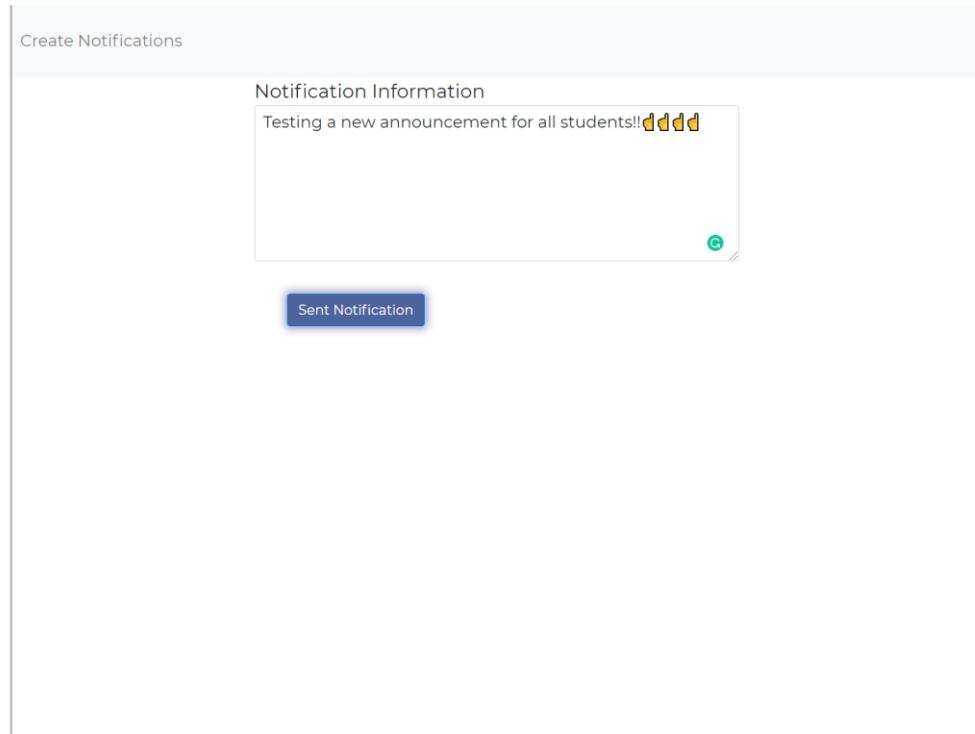
    // image file directory
    $target = "../images/".$enroll."ppic.png";

    // $sql = "INSERT INTO images (image, image_text) VALUES ('$image', '$image_text')";
    // execute query
    // mysqli_query($db, $sql);

    if (move_uploaded_file($_FILES['image']['tmp_name'], $target)) {
        $msg = "Image uploaded successfully";
        echo "<script>alert('".$msg."');</script>";
    }else{
        $msg = "Failed to upload image";
        echo "<script>alert('".$msg."');</script>";
    }
    header('refresh:20');
}

//$result = mysqli_query($db, "SELECT * FROM images");
```

17. CREATE NOTIFICATIONS: By accessing the below form we can create new notifications and send notifications to the students that would appear on their profile.



```
        }
        header('refresh:5');
// header("Refresh:0");
// header('refresh:5; url=/upcomingDrive.php');

    }
?>
<?php
include_once('../backlink.php');
?>
<nav class="navbar navbar-light bg-light " >
<div class="container-fluid nav-in-company">
<span class="navbar-text fs-4 ">
    <!-- <a href="= $admlink ?&gt;" class="text-decoration-underline"&gt; Back&lt;/a&gt;&gt; --&gt; Create Notifications
&lt;/span&gt;
&lt;/div&gt;
&lt;/nav&gt;
&lt;section&gt;
    &lt;div class="w-50 mx-auto"&gt;
        &lt;!-- &lt;p &gt; &lt;span class="&lt;?php
//echo $cre['onoff']=='on'?"green-color":"red-color"; ?&gt;" &lt;?php
// echo $cre['onoff']=="on"";"Registrations are Closed"; ?&gt;&lt;/span&gt;&lt;/p&gt; --&gt;
&lt;form method="post" autocomplete="" action=""

        &lt;div class="form-group purple-border fs-3"&gt;
            &lt;label for="exampleFormControlTextarea4"&gt;Notification Information&lt;/label&gt;
            &lt;textarea class="form-control fs-4" name="notiinfo" id="exampleFormControlTextarea4" placeholder="Enter the notification details here" r</pre
```

18. STUDENT LIST: The below is the list of all students who registered for various recruits and the admin can update the password and placement info of the students.

Students					
Students List					
CLICK ON ENROLL NO TO VIEW STUDENT INFORMATION					
<input type="text" value="Search by student Enroll"/>					<input type="button" value="Search"/>
Name	Enroll	Update	Delete	Update Password	Update Placement Info
Mohit Kumar	201210030	<input type="button" value="Update"/>	<input type="button" value="Delete"/>	<input type="button" value="Update Password"/>	<input type="button" value="Update Placement Info"/>
Annnvi somani	201210005	<input type="button" value="Update"/>	<input type="button" value="Delete"/>	<input type="button" value="Update Password"/>	<input type="button" value="Update Placement Info"/>
Demo Demo	201210000	<input type="button" value="Update"/>	<input type="button" value="Delete"/>	<input type="button" value="Update Password"/>	<input type="button" value="Update Placement Info"/>
Mayankiya Thomas	200000000	<input type="button" value="Update"/>	<input type="button" value="Delete"/>	<input type="button" value="Update Password"/>	<input type="button" value="Update Placement Info"/>
Olivia Walker	200000121	<input type="button" value="Update"/>	<input type="button" value="Delete"/>	<input type="button" value="Update Password"/>	<input type="button" value="Update Placement Info"/>

```
<div id="searched-data-div-stud" class="w-100 shadow mx-auto p-3">

</div>

</div>

<div id="rstudents" class="mt-4 w-100 mx-auto p-3">
  <div id="all-students" class="w-100">
    <table class="table table-bordered">
      <thead>
        <tr>
          <th class="px-5" scope="col"> Name</th>
          <th scope="col" class="px-5">Enroll</th>
          <th scope="col" class="px-5">Update</th>
          <th scope="col" class="px-5">Delete</th>
          <th scope="col" class="px-5">Update Password</th>
          <th scope="col" class="px-5">Update Placement Info</th>
        </tr>
      </thead>
```

19. UPCOMING DRIVES:

Here we can view the organisations which will recruit in further.

- ⊕ We can know the number of registered and approved drives here.
- ⊕ We can edit and view all the upcoming drives.
- ⊕ We can also turn on/off the drive registrations.

Welcome DEMO,

LOG OUT

Dashboard Students Admins Registered Students Past recruiters Tnp Members Staff Members Upcoming Drives

Upcoming Drives

Total No. of Registered Drives till now are 5

Total No. of Approved Drives are 5

Click to view/edit all Upcoming Drives details Turn off Drives Registrations

Data Last Updated On:
2021-11-22 12:16:44
Current time is: 12:17:27 AM

```
/div>
/div>


Upcoming Drives



Total No. of Registered Drives till now are <?=$countupd?></strong></span></div>

Total No. of Approved Drives are <?=$countaprd2?></strong></span></div>



<button class="btn admin-buttons mx-5 " > <span class="fs-4 fw-bold"> Click to view/edit all Upcoming
<button class="btn admin-buttons mx-5 " onclick="onoffbutn()"> <span class="fs-4 fw-bold"> Turn <?php echo $on_off['onoff']=='on'?"of


```

20. UPCOMING PLACEMENT DRIVES:

Here we can view the upcoming placement drives in the uni.

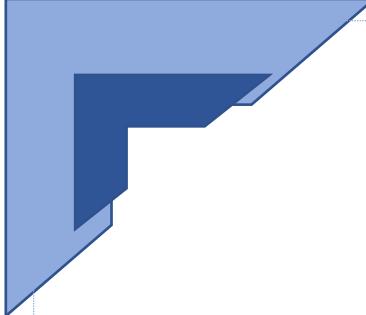
- ⊕ We can know the name, max ctc and minimum cgpa required.
- ⊕ We can download the student list for a particular company.
- ⊕ Also, the admin can approve or disapprove a particular drive.

The screenshot shows a web application interface titled "Upcoming Placement Drives". The page lists five placement drives, each in its own card:

- Swiggy**: -15 days later. Address: Jaipur, India, 302005. Job: Full time, Backend. Email: hr@swiggy.in. Date: 2021-11-07. Max CTC (in lakhs): 14. Min CGPA: 10. Actions: Update, Delete, Approve for campus Drive (with a checked checkbox), Download Eligible students list.
- amazon**: 2 days later. Address: Jaipur, India, 302005. Job: Full time, Full stack Engineer. Email: hr@amazon.in. Date: 2021-11-24. Max CTC (in lakhs): 8. Min CGPA: 8. Actions: Update, Delete, Approve for campus Drive (with a checked checkbox), Download Eligible students list.
- phone pe**: 8 days later. Address: Jaipur, India, 302005. Job: full time, SDE 3. Email: hr@phonepe.com. Date: 2021-11-30. Max CTC (in lakhs): 12. Min CGPA: 10. Actions: Update, Delete, Approve for campus Drive (with a checked checkbox), Download Eligible students list.
- bharat pe**: 10 days later. Address: Jaipur, India, 302005. Job: internship, backend. Email: hr@bharatpay.com. Date: 2021-12-02. Max CTC (in lakhs): 8. Min CGPA: 8. Actions: Update, Delete, Approve for campus Drive (with a checked checkbox), Download Eligible students list.
- Swiggy**: 12 days later. Address: Jaipur, India, 302005. Job: full time, sde 1. Email: hr@swiggy.com. Date: 2021-12-04. Max CTC (in lakhs): 42. Min CGPA: 8. Actions: Update, Delete, Approve for campus Drive (with a checked checkbox), Download Eligible students list.

```
?>
</div>
<div class="card-body">
    <h5 class="card-title bold-label"><?=$drives['orgname']?></h5>
    <p class="card-text"> Address: <?=$drives['orgaddress']?>,&nbsp; <?=$drives['orgcountry']?>,&nbsp; <?=$drives['orgpin']?> </p>
    <h6 class="card-subtitle mb-2 text-muted">Job :<?=$drives['emptype']?>,<?=$drives['emplrole']?></h6>

    <a href="javascript:void(0);> class="card-link" >Email: <?=$drives['orgpemail']?></a><br>
    <a href="javascript:void(0);> class="card-link bold-label" >Date: <?=$drives['drdate']?></a><br>
    <a href="javascript:void(0);> class="card-link" >Max CTC (in lakhs): <?=$drives['maxctclack']?> </a><br>
    <a href="javascript:void(0);> class="card-link" >Min CGPA: <?=$drives['orgmcgpa']?> </a><br>
    <a href="/cruds/updateupdrives.php?updid=<?php echo $drives['drid'];?>"> <button class="btn btn-primary mx-4 mt-2" >Update</button></a>
    <button class="btn btn-danger mx-4 mt-2" onclick="deletedriveid(<?php echo $drives['drid'];?>)">Delete</button>
    <button class="btn btn-success mx-3 mt-2" onclick="approvedriveid(<?php echo $drives['drid'];?>)">Approve for campus Drive <i class="f
    <a href="/downloads/download.php?cgp=<?=$drives['orgmcgpa']?>&cname=<?=$drives['orgname']?>"> <button class="btn btn-secondary mx-4 mt-2" >
    </div>
    <?php }?>
```



13. CONCLUSION AND FUTURE ENHANCEMENT

In this project we have created one application which is easy to access and user friendly. According to the requested requirement the admin can add, manipulate, update and delete all student data in the university. The required records can be easily viewed by the admin anytime he/she wants in an instant.

Features of TnP CELL DATABASE:

- Easy to use.
- It is completely secure and controlled by admin.
- This system is easily compatible with most of the web browsers.
- It is interactive and saves time.
- Reduces paper works.
- Admin can view all the records whenever necessary with ease.

Future scope of the work:

- The option to print the records/drives in future.
- The system can be developed in such a way that its existing features can be modified to better versions.

We implemented our own small-scale DBMS which interprets a subset of SQL commands. This can be easily extended to any large scale by just modifying the grammar and writing actions for the same based on the same lines. Overall, this project helped us to learn the development of the interpreter, query processing techniques and database architecture. Other features of a DBMS like server handling, transactions etc could have also been added.

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