Aim:

Design and implement a web-enabled (portal) student MIS (Management Information System) for university schema attached in separate file

Procedure:

- Created college database.
- Created two tables 1. Person to store all teacher and student's info. 2. Result table to store result of students.
- Created three users
- (Access Management)
    1. Admin having all privileges on database college.
    2. teacher having select, insert and update privileges on result table.
    3. student having select privilege on result table.
- Created API using node JS for login and getting profile data + marks of student.
- Created sample react JS application for login using credentials and dashboard to show student's marks.

Program:

https://github.com/pimpalemahesh/ADS-Assignment-3

Result:

User Management:

Admin:

```
mysql> show grants for collegeadmin@localhost;
+------------------------------------------------------------------------------------------------------+
| Grants for collegeadmin@localhost                                                                    |
+------------------------------------------------------------------------------------------------------+
| GRANT USAGE ON *.* TO `collegeadmin`@`localhost` IDENTIFIED BY PASSWORD '*4ACFE3202A5FF5CF467898FC58AAB1D615029441' |
| GRANT ALL PRIVILEGES ON `college`.* TO `collegeadmin`@`localhost`                                     |
+------------------------------------------------------------------------------------------------------+
2 rows in set (0.39 sec)
```
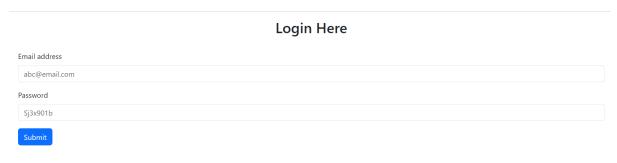
Teacher and Student:

```
mysql> show grants for teacher@localhost;
+------------------------------------------------------------------------------------------------------+
| Grants for teacher@localhost                                                                         |
+------------------------------------------------------------------------------------------------------+
| GRANT USAGE ON *.* TO `teacher`@`localhost` IDENTIFIED BY PASSWORD '*977F15BF49C046DA76BC81A80146AAB943F679F1' |
| GRANT SELECT, INSERT, UPDATE ON `college`.`result` TO `teacher`@`localhost`                           |
+------------------------------------------------------------------------------------------------------+
2 rows in set (0.00 sec)

mysql> show grants for student@localhost;
+------------------------------------------------------------------------------------------------------+
| Grants for student@localhost                                                                         |
+------------------------------------------------------------------------------------------------------+
| GRANT USAGE ON *.* TO `student`@`localhost` IDENTIFIED BY PASSWORD '*1308E0FCD43112F8D948AB093F54892CB7B220AA' |
| GRANT SELECT ON `college`.`result` TO `student`@`localhost`                                           |
+------------------------------------------------------------------------------------------------------+
2 rows in set (0.00 sec)
```

Database and table:

College Database and Tables:

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| college            |
| information_schema |
| test               |
+--------------------+
3 rows in set (0.00 sec)

mysql> use college;
Database changed
mysql> show tables;
+-------------------+
| Tables_in_college |
+-------------------+
| person            |
| result            |
+-------------------+
2 rows in set (0.00 sec)
```

```
mysql> select * from person;
+----+-------------------------------------+----------+---------+----------------+
| id | email                               | password | role    | prn            |
+----+-------------------------------------+----------+---------+----------------+
|  1 | mahesh.pimpale@walchandsangli.ac.in | mahesh   | Student | 2020BTECS00054 |
|  2 | xyz@gmail.com                       | 123456   | Teacher | NULL           |
|  3 | abc.def@walchandsangli.ac.in        | 123456   | Admin   | NULL           |
|  4 | student@gmail.com                   | 123456   | Student | 2020BTECS00050 |
+----+-------------------------------------+----------+---------+----------------+
4 rows in set (0.00 sec)

mysql> select * from result;
+----+------+------+------+------+------+------+----------------+
| id | sub1 | sub2 | sub3 | sub4 | sub5 | sub6 | prn            |
+----+------+------+------+------+------+------+----------------+
| 50 |   90 |   90 |   90 |   90 |   90 |   90 | 2020BTECS00050 |
| 54 |   93 |   91 |   90 |   97 |   99 |  100 | 2020BTECS00054 |
+----+------+------+------+------+------+------+----------------+
2 rows in set (0.00 sec)
```

React GUI app:

Login Here

Email address

abc@email.com

Password

Sj3x901b

Submit

Login Here

Email address

mahesh.pimpale@walchandsangli.ac.in

Password

••••••

Submit

This is dashboard

LogOut

User

- mahesh.pimpale@walchandsangli.ac.in

- Student

Sub1	Sub2	Sub3	Sub4	Sub5	Sub6
93	91	90	97	99	100