A
PROJECT REPORT
on

"Exam Hall Allocation System"

Submitted to:

Rashtrasant Tukadoji Maharaj Nagpur Universit, Nagpur for Partial Fulfillment of the Degree of

Master Of Computer Application in

Science And Technology

Submitted by

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Bhagyashri Maroti Itkare

Under the Guidance of

T.P.Raju sir

Master Of Computer Application

NAAC Accredited with A+ Grade ISO 9001:2015 Certified

Vidarbah Bahu uddeshiye Shikshan Sanstha's

Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur-441108

Session 2020-21

Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur-441108

CERTIFICATE

This is to certify that project work described in this report entitled, "**Exam Hall Allocation System**" was carried out by **Abhay Namdeo Itkare & Bhagyashri Maroti Itkare** in Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur under my supervision and guidance in partial fulfillment of the requirement for the degree of Bachelor of Engineering in **Master Of Computer Application**, of Rashatrasant Tukadoji Maharaj Nagpur University, Nagpur.

This work is the own work of the candidate, completed in all respect and is of sufficiently high standard to warrant its submission to the said degree. The assistance and resources used for this work are duly acknowledged.

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Name of HoD
Roshan Sir (MCA)

Dr. Geeta Padole
Principal

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DECLARATION

I/We hereby declare that this project titled **"Exam Hall Allocation System"** is a bonafide and authentic record of the work done by me/us under supervision of **T.P.Raju sir** during academic session 2020-21.

The work presented here is not duplicated from any other source and also not submitted earlier for any other degree/diploma of any university. I/We understand that any such duplication is liable to be punished in accordance with the university rules. The source material, data used in this research have been duly acknowledged.

Date:16-09-2021

Abhay Itkare

Bhagyashri Itkare

Place:

Name and Signature of Students

Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur-441108

ACKNOWLEDGEMENT

With profound feeling of immense gratitude and affection, I/We would like to thank my guide **T.P.Raju Sir**, Designation and Department, for his continuous support, motivation, enthusiasm and guidance. His encouragement, supervision with constructive criticism and confidence enabled me/us to complete this project.

*I/We, also wish to extend my/our reverences to the **Name of external guide/ co-guide/ industry person/ research laboratory (if any)** for valuable support and technical insight to complete this project.*

I/We, also wish to extend my reverences to the **Roshan Sir, Master Of Computer Application** for providing necessary facilities to complete our project.

I/We, am/are also thankful to all the faculty members and all non-teaching staff of the department & college for their cooperation throughout the project work

I/We, also put forth my/our deepest sense of gratitude towards the **Dr. Geeta Padole Principal, TGPCET** for constant motivation and providing necessary infrastructure.

Abhay N. Itkare

Bhagyashri M Itkare

PROJECTEE

Note: Blue colored lines are applicable only if project is industry project/Research

CHAPTER –

Exam Hall Allocation System

Content

1. Introduction
2. Different Modules
3. ER Diagram
4. DAtabase Design
5. Screen Shoot
6. Tools used
7. Conclusion

Title of the Project

Exam Seat Arrangement System

Introduction and Objective of the Project:

Presently, the seating arrangement for the examinations is done manually. Initially the examination section has to collect all student examination registration details branch wise and year wise. These details include name, roll no. , branch, year, list of subjects registered for exam. The administrator need to count the total number students registered. Then he needs to select the rooms and divide the students among those rooms. After dividing the rooms, he need to prepare students list for each based on the exam. He also needs to prepare the seating arrangement list for each room based upon the count. All this work need to be done for each exam and for each branch and year. This is very tedious work and there are many chances for mistakes to occur due to manual work. The "examination seating arrangement system" atomizes the existing system of assigning seating arrangement. When a student registers for an examination, this system stores student examination registration details (name, roll no. , branch, year & semester, subjects) in the database depending on the branch, year & semester. These details can be efficiently used whenever required. The system takes the details as input from the database depending on the selected branch. The system asks for subject of the exam to be conducted, set no. , room details (room no. , size) and allocates rooms. This also generates seating arrangement and students list for each room.

Need of the System:

The project Exam Seating Arrangement System has been developed to help the department maintaining the student details, earlier the records where maintained manually, with the help of this package the concerned departments will be able to improve the productivity, reduce the time, cost factors associated with the system. The automation of the system will help the organization in proper maintenance of the record, less manpower, less man-days, less cost, proper & accurate functioning.

The basic need for the package was to automate the whole procedure of maintaining of student details, earlier it was all done manually. By developing this package lot of burden was removed from the department, which was maintaining student's details. It improved the efficiency, reduced the cost, and reduced the time need to do the work manually. With the help of this package the past details of the students can assessed and reports can be generated on this details.

In brief we can say this system was required to automate the processing of students details, which was done manually before the development of the package. Earlier all the information / data pertaining to the students was maintained manually or we can say it was on paper, hence it created a problem for the organization/ school, how to manage it properly. With the help of this system the organization/school is able to maintain the data properly & accurately.

Why System was build?

- Earlier, data pertaining to students was maintained manually.
- Manual system was not efficient.
- Cost of maintaining data manually was bigger or huge.
- Large manpower was required.
- The procedure was error prone, it was not accurate.
- Manual system was not suited for electronic exchange of data.

Solution?

The solution for all this problem was to automate the system, automation of the students data maintenance would reduce the manpower, man days will result in accurate data & above all increase the efficiency of the concerned department.

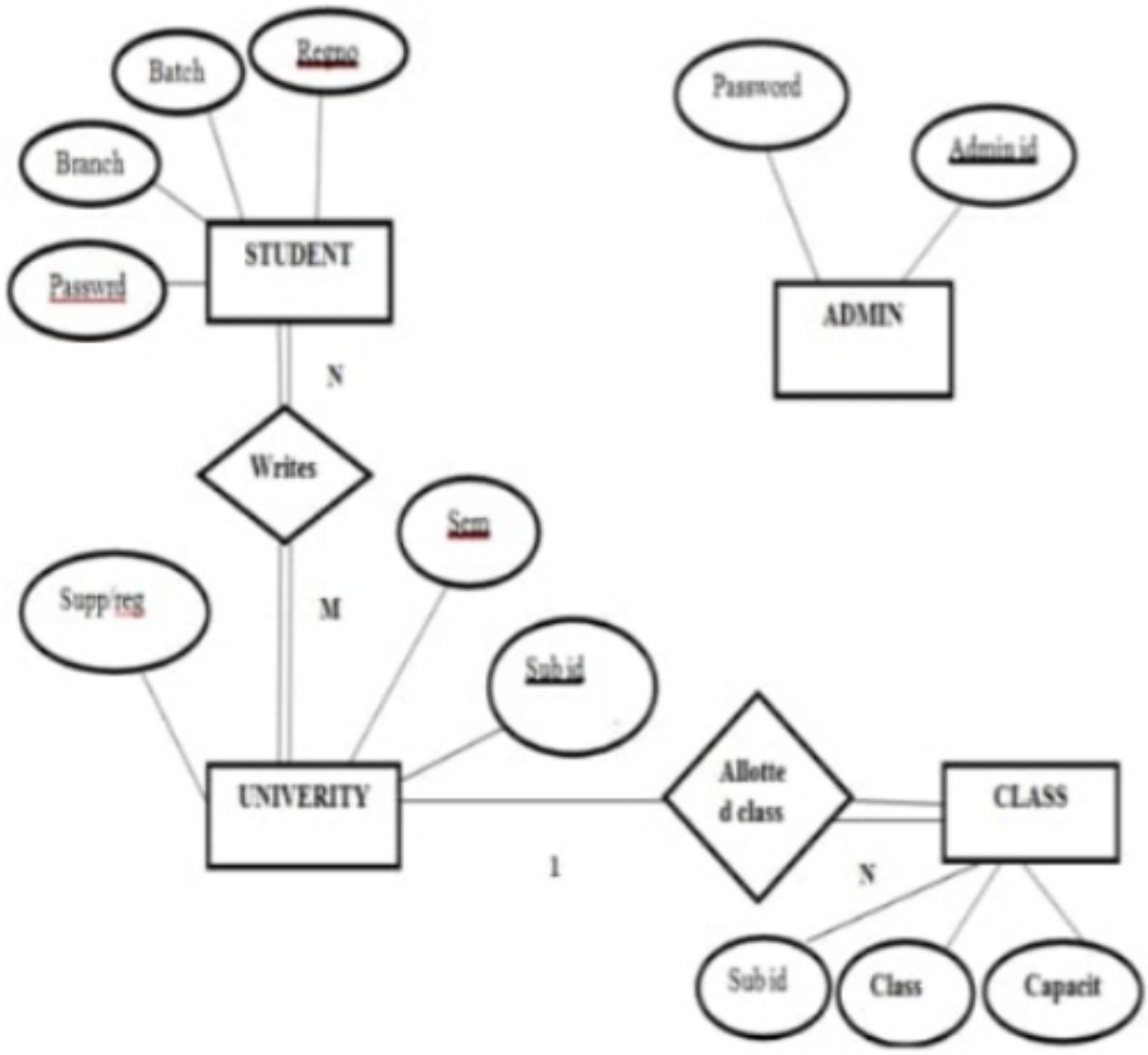
The major modules in this application are,

- **Dashboard**
- **Teacher Management**
  - Add Teacher
  - View Teacher
- **Student Management**
  - Add Student
  - View Student
- **Subject Management**
  - Add Subject
  - View Subject
- **Class Management**
  - Add Class
  - View Class
- **Exam Management**
  - Add Room Type
  - View Room Type
  - Add Room
  - View Room
  - Add Exam
  - View Exam
  - Add Allotment
  - View Allotment
- **USERS**
  - User Management
  - User Permissions
- **Settings**
  - Appearance Management
  - Email Management
- **Report Management**
  - Today's Exam
  - Exam Report

ER DIAGRAM

The Entity-Relationship diagram is used to visually represent data objects. The utility of the ER model is:

- It maps well to the relational model. The constructs used in the ER model can easily be transformed into relational tables.
- It is simple and easy to understand with a minimum of training. Therefore, the model can be used by the database designer to communicate the design to the end user.
- In addition, the model can be used as a design plan by the database developer to implement a data model in specific database management software.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M
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Sub id
UNIVERITY
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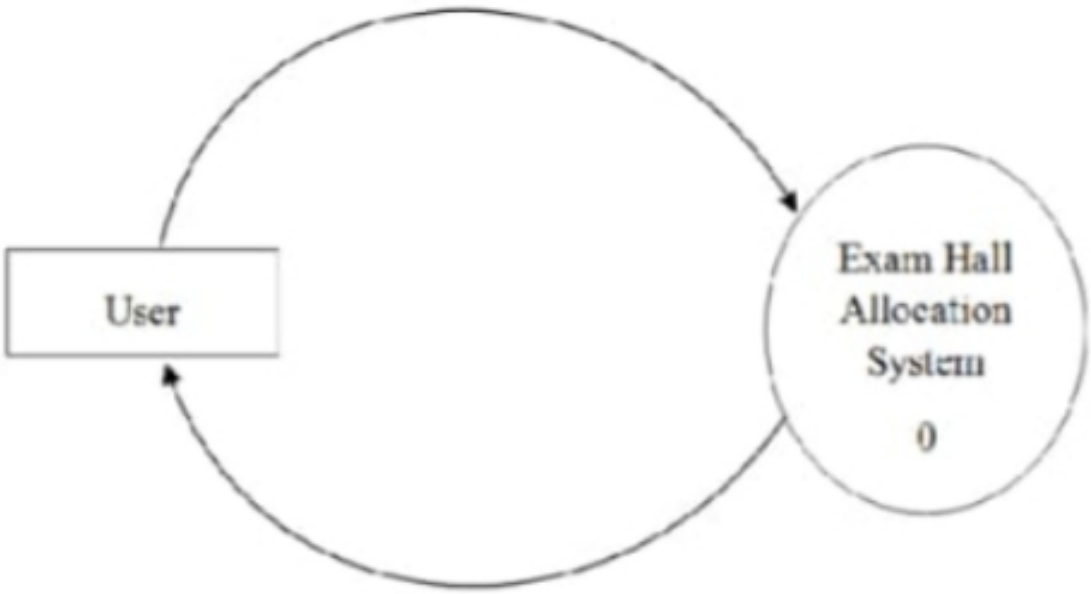
N
CLASS
Password
Admin id
ADMIN
Sub id
Class
Capacit

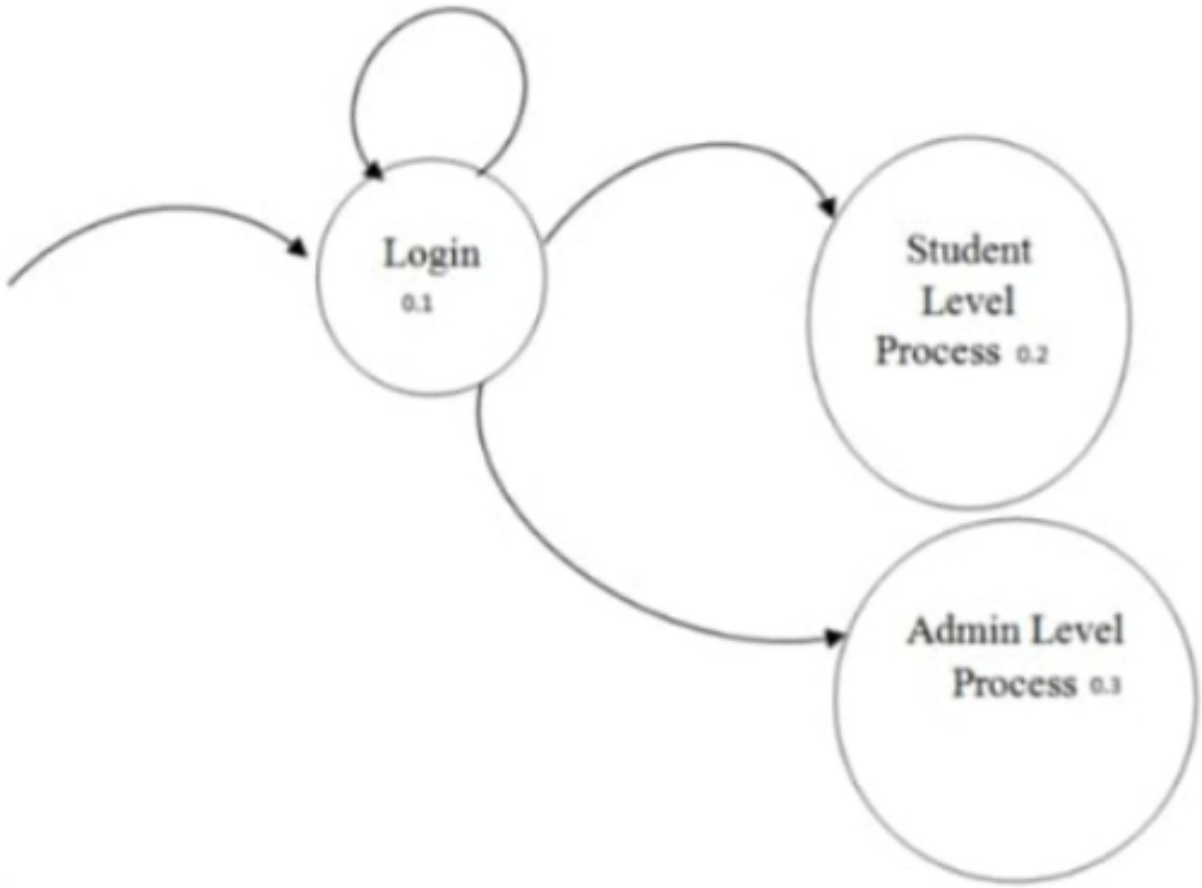
Data flow Diagram

- A Data-flow diagram (DFD) is a graphical representation of the 'flow' of data through an information system.
- A DFD provides no information about the timing or ordering of processes, or about whether processes will operate in sequence or in parallel.
- Data Flow Diagrams can be used to provide the end user with a physical idea of where the data they input ultimately has an effect upon the structure of the whole system from order to dispatch to report.

Context Diagram



➢LEVEL 1



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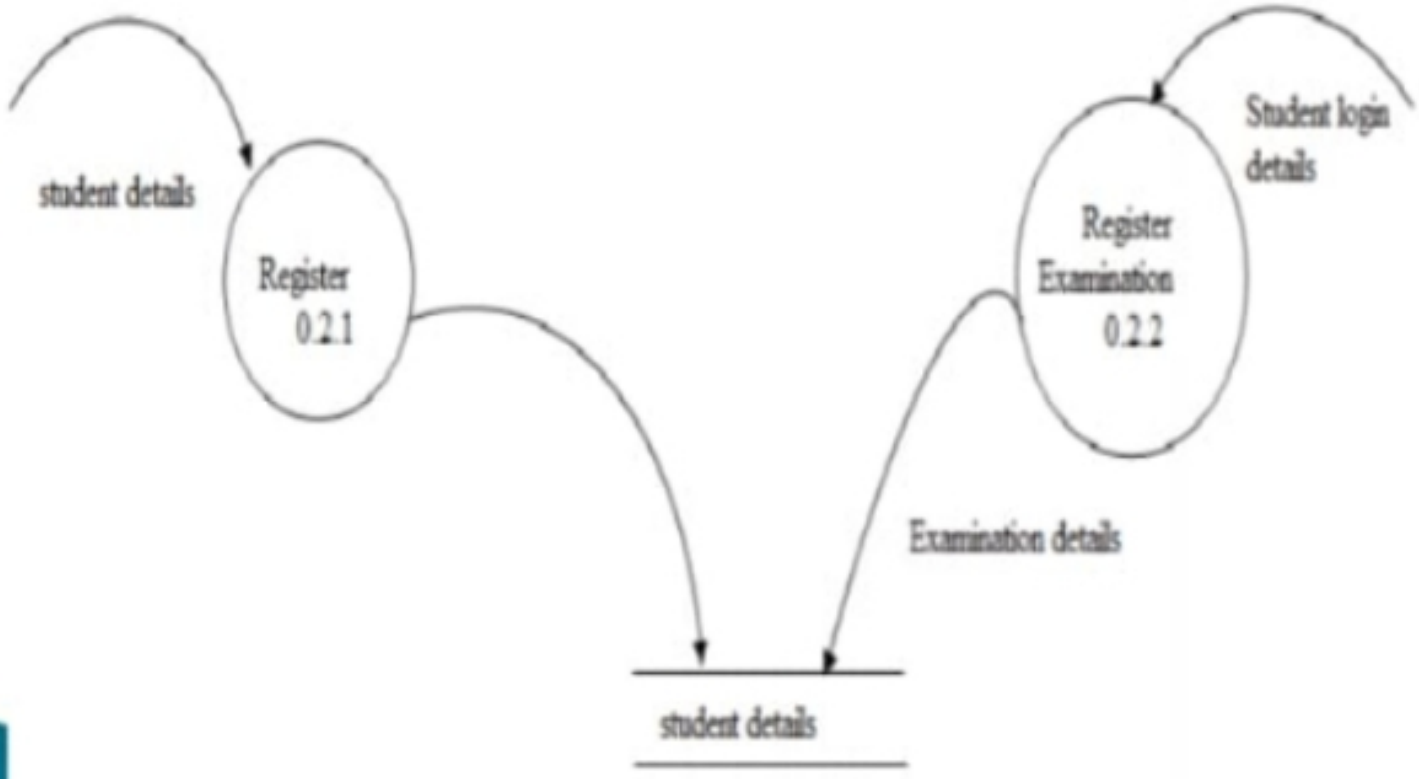
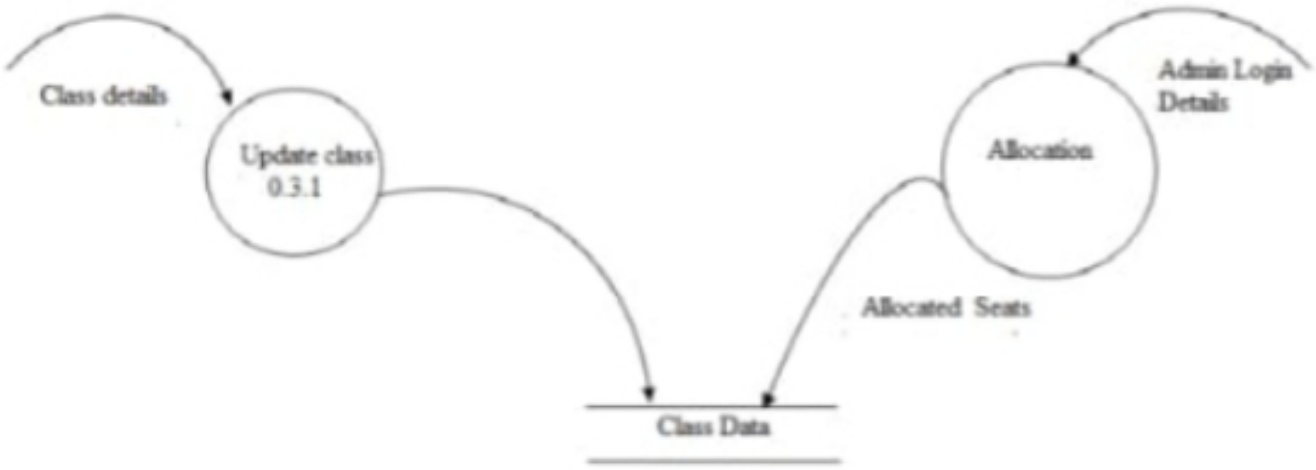
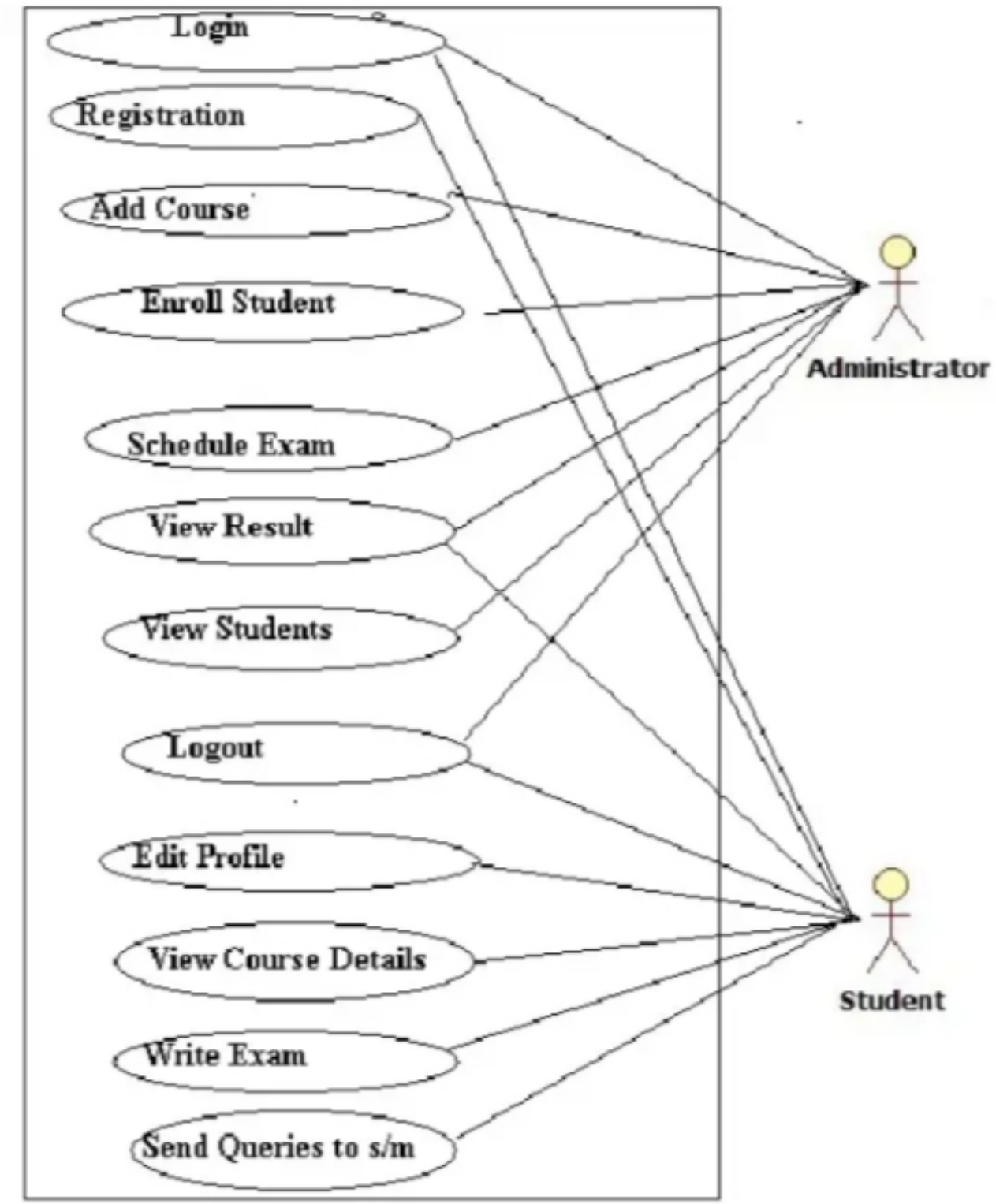

student details
Register
0.2.1
Student login
details
Register
Examination
0.2.2
Examination details
student details

➢LEVEL 3


Class details
Update class
0.3.1
Admin Login
Details
Allocation
Allocated Seats
Class Data

Use case diagram:



DATABASE DESIGN

- Administrator
- Student
- Class
- University

ADMINISTRATOR

- Contains the administrator's id and password

Field	Type	Size	Constraint
Admin-id	Varchar	10	Not Null
Password	Varchar	20	Not Null

Student

- Stores the information of each student,

Field	Type	Size	Constraint
Name	Varchar	20	Not null
Reg-no	Int	4	Primary
Curr-sem	Int	4	Not Null
Rollno	Int	4	Not Null
Batch	Char	1	Not Null
Branch	Varchar	3	Not Null
Password	Varchar	15	Unique

university

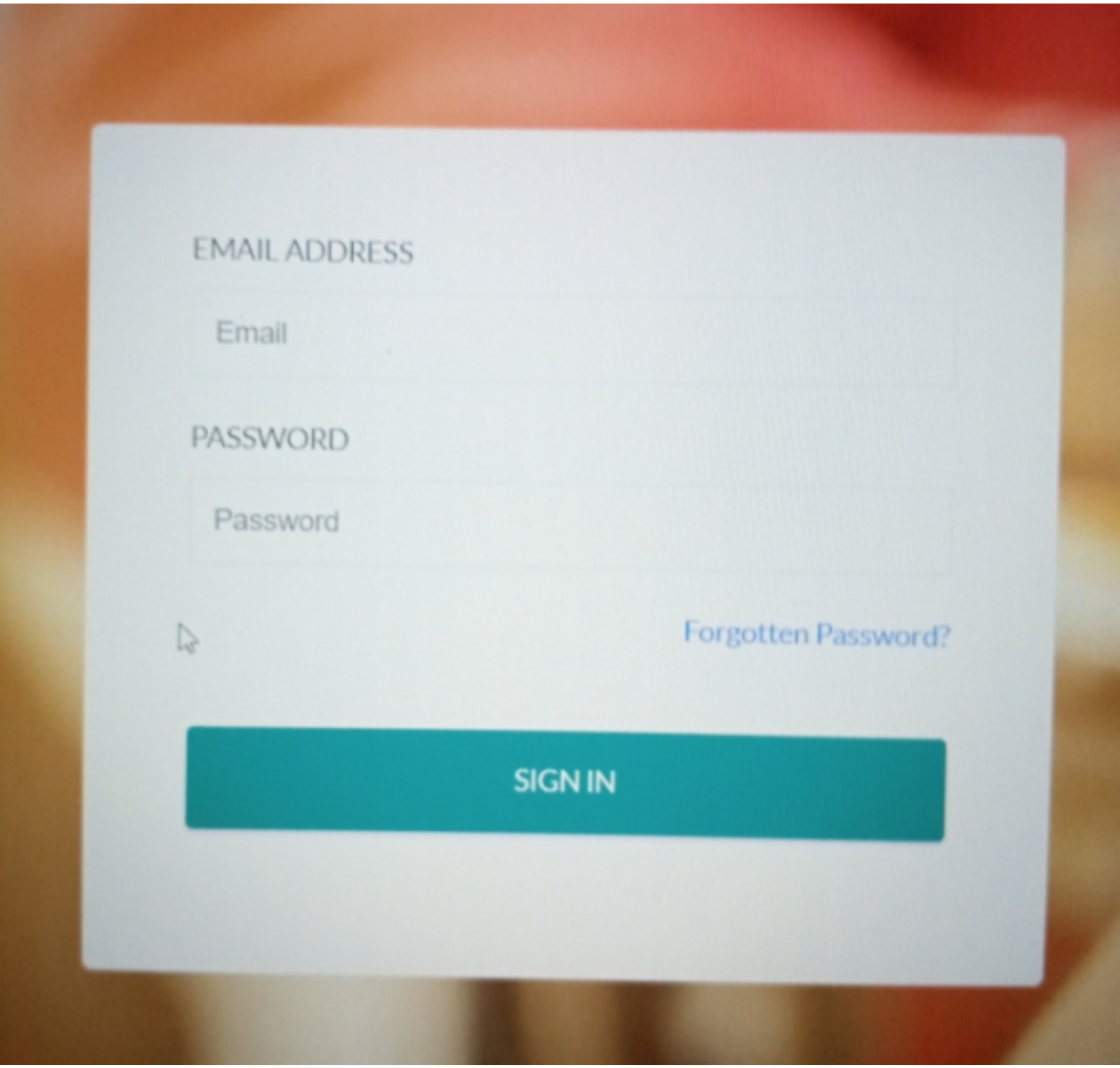
- Contains the details for university exam

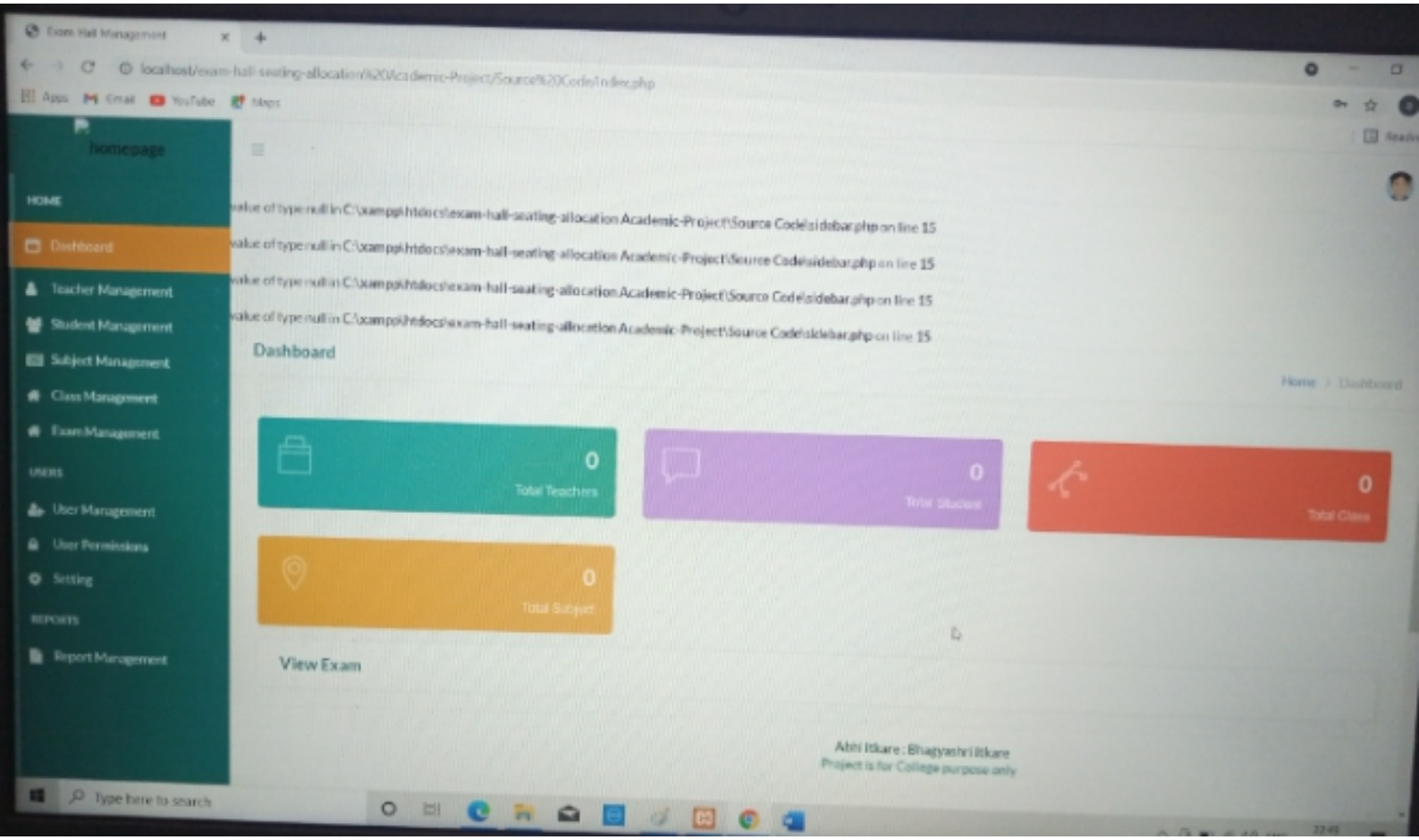
Field	Type	Size	Constraint
Sub_id	Int	4	Primary
Sem	Int	4	Primary
Regno	Int	4	Primary
Dept	Varchar	3	Not Null
Supp/Reg	Int	4	Not Null

CLASS

- Contains the information about each class

Field	Type	Size	Constraint
Classno	Int	4	Primary
Capacity	Int	4	Not Null


EMAIL ADDRESS
Email
PASSWORD
Password
Forgotten Password?
SIGN IN


Exam Hall Management
homepage
HOME
Dashboard
Teacher Management
Student Management
Subject Management
Class Management
Exam Management
USERS
User Management
User Permissions
Setting
REPORTS
Report Management
Dashboard
0
Total Teachers
0
0
Total Class
0
Total Subject
View Exam
Abhi Itkare : Bhagyashri Itkare
Project is for College purpose only
Type here to search

- HTML : Page layout has been designed in HTML
- CSS : CSS has been used for all the desigining part
- JavaScript : All the validation task and animations has been developed by JavaScript
- PHP : All the business and frontend logic has been implemented in PHP
- MySQL : MySQL database has been used as database for the project
- Apache2 : Project will be run over the Apache2 server

Future scope of the Project:

Today, the market place is flooded with several exam seating arrangement system options for school and colleges to choose from. A variety of innovative products and services are being offered spoiling customers for choice. Student Information System is no more a privilege enjoyed by managers and employees. In the last couple of years, the growth of IT Industry has been phenomenal as more have started discovering the benefits of using this platform. Therefore we will made this system live and provide Software as Service (SAS) in future.

Conclusion of the Project:

Our project is only a humble venture to satisfy the needs in a school to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

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THANK YOU

The end