P. E. S. COLLEGE OF ENGINEERING

(An Autonomous Institution, affiliated to VTU Belagavi)

Mandya, Karnataka - 571401

Project Report

on

"ONLINE COURSE REGISTRATION"

Submitted By

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PESCE, Mandya

Department of Information Science & Engineering

2021-2022

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CERTIFICATE

This is to certify that the project entitled "**ONLINE COURSE REGISTRATION**" submitted in the partial fulfillment of the requirement of the 5th semester DBA laboratory curriculum during the year 2021- 2022 is a result of bonafied work carried out by

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1. Internal Examiner:

2. External Examiner:

ACKNOWLEDGEMENT

The satisfaction that accompanies to this project would be incomplete without the mention of the people who made it possible, without whose constant guidance and encouragement would have made our efforts go in vain.

We consider ourselves privileged to express our gratitude and respect towards all those who guided us through the project, "**ONLINE COURSE REGISTRATION**".

We would like to express our gratitude to **Dr. R M Mahalingegowda, Principal, P E S College of Engineering, Mandya,** for providing us the congenial environment to work in.

We would like to express our profuse gratitude to **Dr. Anitha M L, Dept. of Information Science and Engineering, P E S College of Engineering, Mandya,** for giving us the support, encouragement and providing us the required lab facilities that was necessary for the completion of this project.

As a token of gratitude, we would like to acknowledge our sincere gratefulness to the internal guide **Mr. Puttaswamy B S, Asst Prof., BE, MTech, Dept. of ISE, P E S College of Engineering, Mandya,** for her unlimited support and encouragement provided throughout the process.

We also express our gratitude and sincere thanks to all the teaching and non-teaching staff of **Information Science & Engineering Department.**

Finally, yet importantly, we would like to express our heartfelt thanks to our beloved **Parents** for their blessings and our **Friends** for their help and wishes for the successful completion of this project report.

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ABSTRACT

An online registration system was developed where a student can register himself. The registration form has been designed to be user friendly and easy to fill and hence leads to saving of time and money as compared to multiple forms filled manually by the students.

The current research aims at reducing the workload all the entities involved in the registration procedure for the students. The current manual system faces different challenges as to maintaining data of each student manually. Hard copy registers are maintained correctly to verify student details. From students' point of view, they have to fill the forms manually and then get them verified from concerned officials, which is a very time-consuming process. The objectives of this proposed web application system are:

- To computerize student and faculty databases.
- To maintain data consistency and integrity.
- Automate the registration process without any physical human interaction.
- Making the registration process accessible anywhere to the student.
- Allowing faculty to acknowledge registration requests from anywhere.

CONTENTS

Chapter: 1

INTRODUCTION

Online Student Registration System Student Online admissions are a vital part of any university's running because students are what keep a university alive. Student admission is one of the most important activities within a university as one cannot survive without students. A poor admissions system can mean fewer students being admitted into a university because of mistakes or an overly slow response time. Online Student Registration is the software which is helpful for students as well as the department. In this project, the student is facilitated by the online system for registering students, adding subjects and fee structure. Our Student Management System deals with the various activities related to the students. ` In the Software we can register as a user and the user has two types, student and administrator. Administrator has the power to add new users and delete a user. Through this online system we overcome many Problems. Time and Money is saved. Nothing is done manually. Long lines in the department for these issues.

1.1 Purpose of the project

The purpose of this course registration system is to allow the registration of students in a particular course. It is intended to be complete specifications of what functionality the admission provides. It will also facilitate keeping all the records of students, such as their id, name, etc. So, all the information about a student will be available in a few seconds. Overall, it will make the Online Registration System an easier job for the administrator and the student of any organization.

Chapter: 2

SOFTWARE AND HARDWARE REQUIREMENTS

2.1 Software Requirements

- VISUAL STUDIO -> PHP
- MYSQL Shell-> MYSQL DATABASE
- MYPHP->DATABASE STORAGE
- XAMPP->MERGING FRONT END AND DATABASE

2.2 Hardware Requirements

- PROCESSOR: Intel core i5 8th generation, AMD Ryzen 5 4700U or above.
- RAM: Minimum 4GB RAM capacity.
- HARD DISK: 512GB SSD.
- OPERATING SYSTEM: Windows 7, 8, 10.
- Fast and high bandwidth internet connection.
- Graphics- 2.00 GHz or more

Chapter: 3

SYSTEM ANALYSIS

3.1 Existing System

In existing system every data or information of the students are handled by person in a manual procedure. Each information of the student is entered in a record book which are time consuming activities and they perform repetitive steps in entering each student information.
And these records are maintained for longer period.
Disadvantages of existing system:

- More human error.
- Strain for manual labour.
- Repetition of same procedures.
- Low security.
- Data redundancy.
- Difficult to handle.
- Difficult to update the data.
- Records keeping is difficult.
- Backup data can be easily generated.

3.2 Proposed System

The proposed system is very easy to operate. Speed and accuracy are the main advantages of proposed system. There is no redundancy of the data. The data are stored in the computer secondary memories like hard disks, etc. It can be easily used at any time. The proposed system will easily handle all the data and the work done by the existing system. The proposed system eliminates the drawbacks of existing system to a great extent and it provides tight security to the data.
Advantages of proposed system:

- Secure data.
- Faster process.
- Error free.
- Better management.
- Save a lot of man power.
- Can easily make the daily reports.
- Elimination of paper work High reliability and security Fast and economical.

3.3 Functional Requirements

3.3.1 Admin Module

- Admin Login/logout.
- Admin can create course details.
- Admin provides verification code for Student Registration.
- Admin can add and delete course.
- Admin can view student access log.

3.3.2 Student Module

- Student Login /logout.
- Student can Register.
- Student can check courses available.
- Student can view and update their profile.
- Student can change password.
- Student can recovery their password.

Chapter: 4

FEASIBILITY REPORT

Preliminary investigation examines project feasibility, the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if they are unlimited resources and infinite time. There are aspects in the feasibility study portion of the preliminary investigation:

- Technical Feasibility
- Operation Feasibility
- Economical Feasibility

4.1 Technical Feasibility

The technical issue usually raised during the feasibility stage of the investigation includes the following:

• Does the necessary technology exist to do what is suggested?

• Do the proposed equipment's have the technical capacity to hold the data required to use the new system?

• Will the proposed system provide adequate response to inquiries, regardless of the number or location of users?

• Can the system be upgraded if developed?

• Are there technical guarantees of accuracy, reliability, ease of access and data security?

Earlier no system existed to cater to the needs of 'Secure Infrastructure Implementation System'. The current system developed is technically feasible. It is a web-based user interface. Thus, it provides an easy access to the users. The database's purpose is to create, establish and maintain a workflow among various entities in order to facilitate all concerned users in their various capacities or roles. Permission to the users would be granted based on the roles specified. Therefore, it provides the technical guarantee of accuracy, reliability and security.

The software and hard requirements for the development of this project are not many and are available as free as open source. The work for the project is done with the current equipment and

existing software technology. Necessary bandwidth exists for providing fast feedback to the users irrespective of the number of users using the system.

4.2 Operational Feasibility

Proposed projects are beneficial only if they can be turned out into information system. That will meet the organization's operating requirements. Operational feasibility aspects of the project are to be taken as an important part of the project implementation. Some of the important issues raised are to test the operational feasibility of a project includes the following:

• Is there sufficient support for the management from the users?

• Will the system be used and work properly if it is being developed and implemented?

• Will there be any resistance from the user that will undermine the possible application benefits?

This system is targeted to be in accordance with the above-mentioned issues. Beforehand, the management issues and user requirements have been taken into consideration. So, there is no question of resistance from the users that can undermine the possible application benefits.

The well-planned design would ensure the optimal utilization of the computer resources and would help in the improvement of performance status.

4.3 Economic Feasibility

A system can be developed technically and that will be used if installed must still be a good investment for the organization. In the economic feasibility, the development cost in creating the system is evaluated against the ultimate benefit derived from the new systems. Financial benefits must equal or exceed the costs.

The system is economically feasible. It does not require any addition hardware or software. Since the interface for this system is developed using the existing resources and technologies. There is nominal expenditure and economic feasibility for certain. The software, Site Explorer is designed for management of web sites from a remote location.

Chapter: 5

DESIGN AND IMPLEMENTATION

5.1Schema Diagram

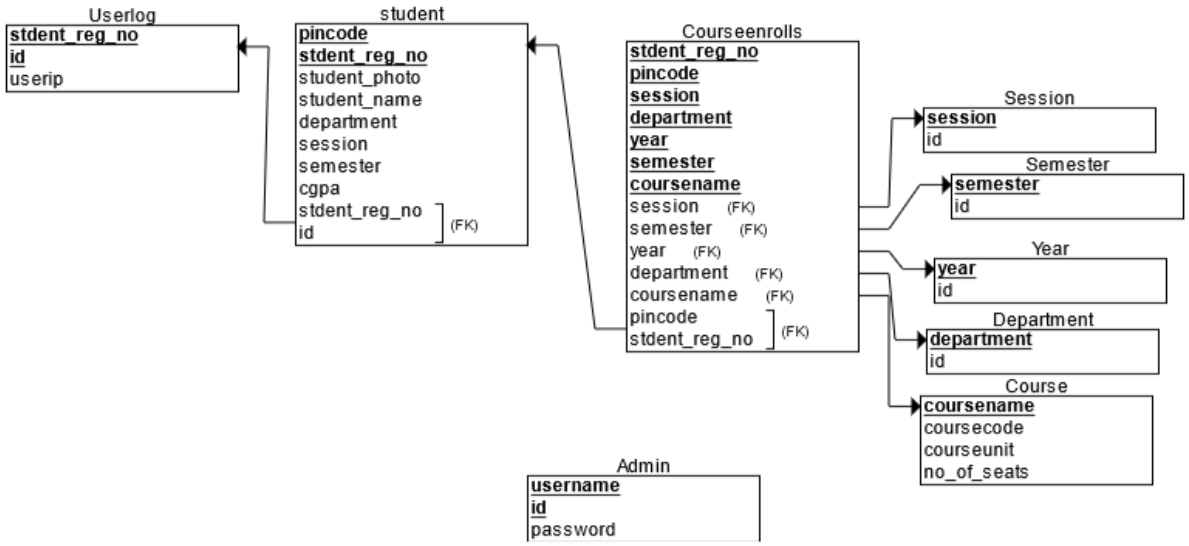


Figure 5.1Schema Diagram

5.2 ER Diagram

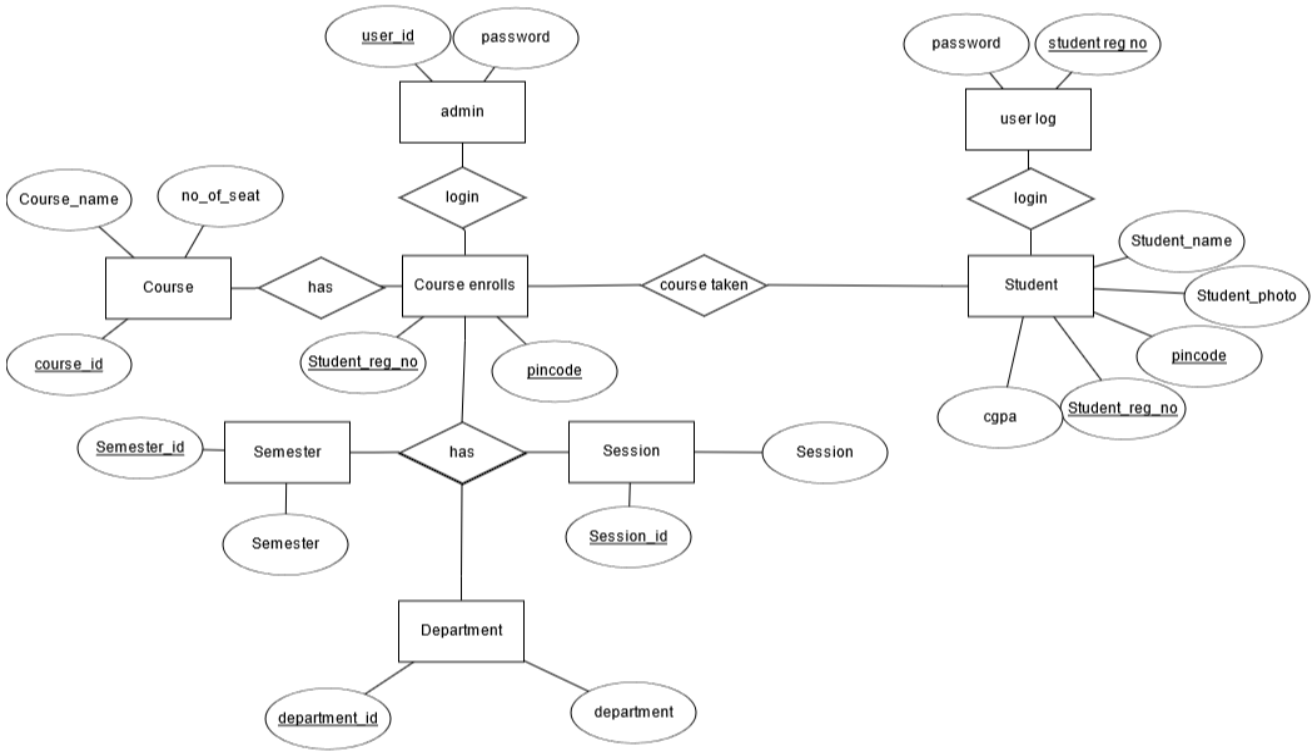


Figure 5.2 ER Diagram

Chapter: 6

TESTING

System Testing The testing process focuses on the logical intervals of the software ensuring that all statements have been tested and on the functional interval is conducting tests to uncover errors and ensure that defined input will produce actual results that agree with the required results. Program level testing, modules level testing integrated and carried out. 7.1 Testing Methods There are two major types of testing.

They are:

1) **White Box Testing.**

2) **Black Box Testing.**

White Box Testing White box sometimes called “Glass box testing” is a test case design that uses

the control structure of the procedural design to drive the test case.

Black box Testing Black box testing focuses on the functional requirements of the software. This is black box testing enables software engineering to derive a set of input conditions that will fully exercise all functional requirements for a program. Black box testing is not an alternative to white box testing; rather it is a complementary approach that is likely to uncover a different class of errors that white box methods like. Interface errors Performance in data structure Performance errors.

Sl no.	Input Given	Expected output	Actual output occurred	Test Pass/fail
Admin				
authentication	admin,admin	admin ,home page	admin,home page	pass
authentication	admin,123345	sign up page	please enter valid password	fail
Student				
authentication	4ps18is040, sarvesh	student, home page	student, home page	pass
authentication	1234, hello	sign up page	please enter valid username	Fail
Acceptance	Pin code should be 6 digits	Pin code should accept	Pin code accept successfully	Pass
Acceptance	Pin code should be 6 digits	Pin code should not accept	Pin code not accepted	Fail

Chapter: 7

SOURCE CODE

```
CREATE TABLE Session
(
 session VARCHAR(128) NOT NULL,
 id INT NOT NULL,
 PRIMARY KEY (session)
);

CREATE TABLE Semester
(
 semester INT NOT NULL,
 id INT NOT NULL,
 PRIMARY KEY (semester)
);

CREATE TABLE Year
(
 id INT NOT NULL,
 year VARCHAR(128) NOT NULL,
 PRIMARY KEY (year)
);

CREATE TABLE Department
(
 department VARCHAR(128) NOT NULL,
 id INT NOT NULL,
 PRIMARY KEY (department)
);

CREATE TABLE Course
(
 coursename VARCHAR(128) NOT NULL,
 coursecode VARCHAR(128) NOT NULL,
```

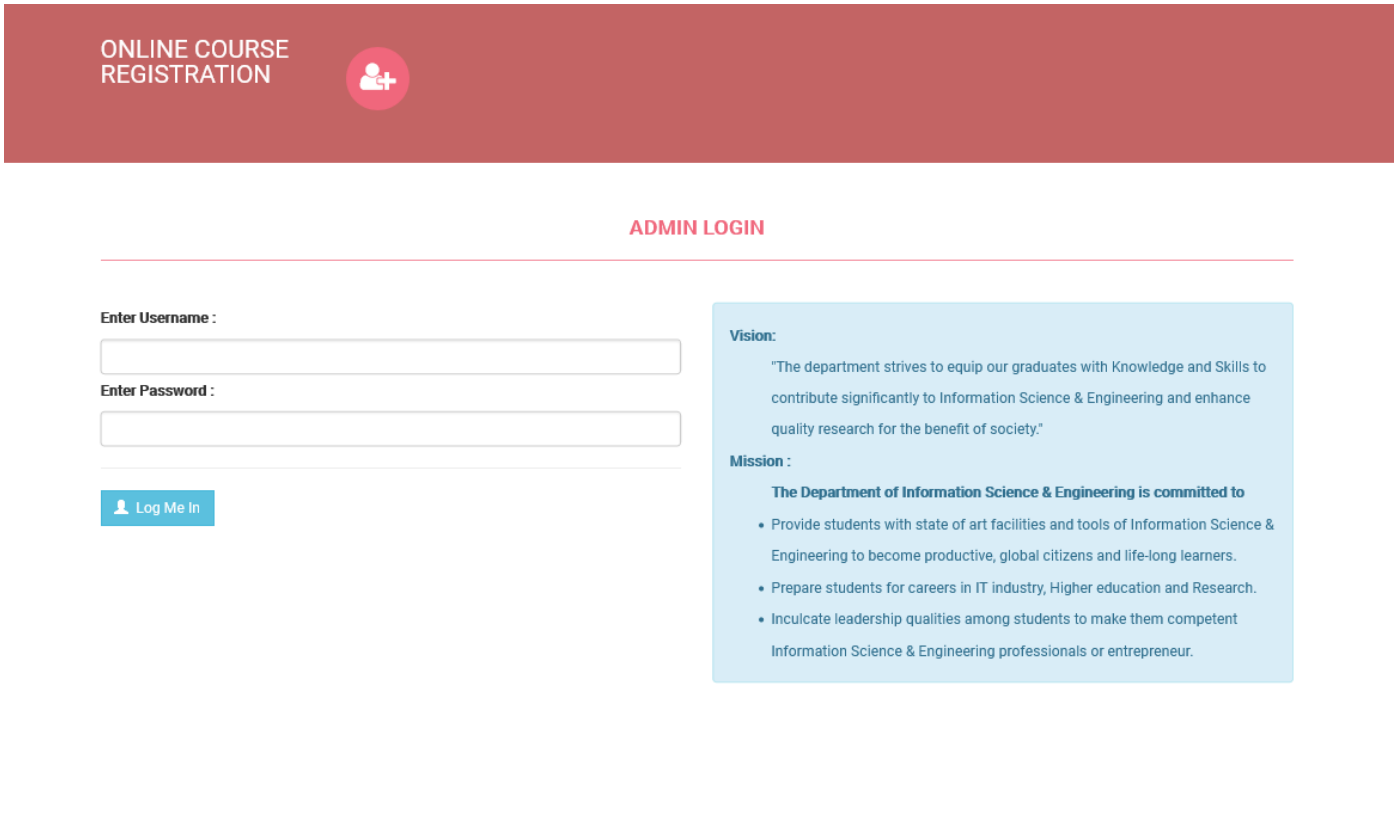
```
 courseunit VARCHAR(128) NOT NULL,
 no_of_seats INT NOT NULL,
 PRIMARY KEY (coursename)
);

CREATE TABLE Userlog
(
 userip NUMERIC(128) NOT NULL,
 stdent_reg_no VARCHAR(128) NOT NULL,
 id INT NOT NULL,
 PRIMARY KEY (stdent_reg_no, id)
);

CREATE TABLE Admin
(
 password VARCHAR(128) NOT NULL,
 username VARCHAR(128) NOT NULL,
 id INT NOT NULL,
 PRIMARY KEY (username, id)
);

CREATE TABLE student
(
 pincode INT NOT NULL,
 stdent_reg_no VARCHAR(64) NOT NULL,
 student_photo VARCHAR(64) NOT NULL,
 student_name VARCHAR(64) NOT NULL,
 department VARCHAR(64) NOT NULL,
 session VARCHAR(64) NOT NULL,
 semester VARCHAR(64) NOT NULL,
 cgpa NUMERIC NOT NULL,
 stdent_reg_no VARCHAR(128) NOT NULL,
 id INT NOT NULL,
 PRIMARY KEY (pincode, stdent_reg_no),
 FOREIGN KEY (stdent_reg_no, id) REFERENCES Userlog(stdent_reg_no, id)
```

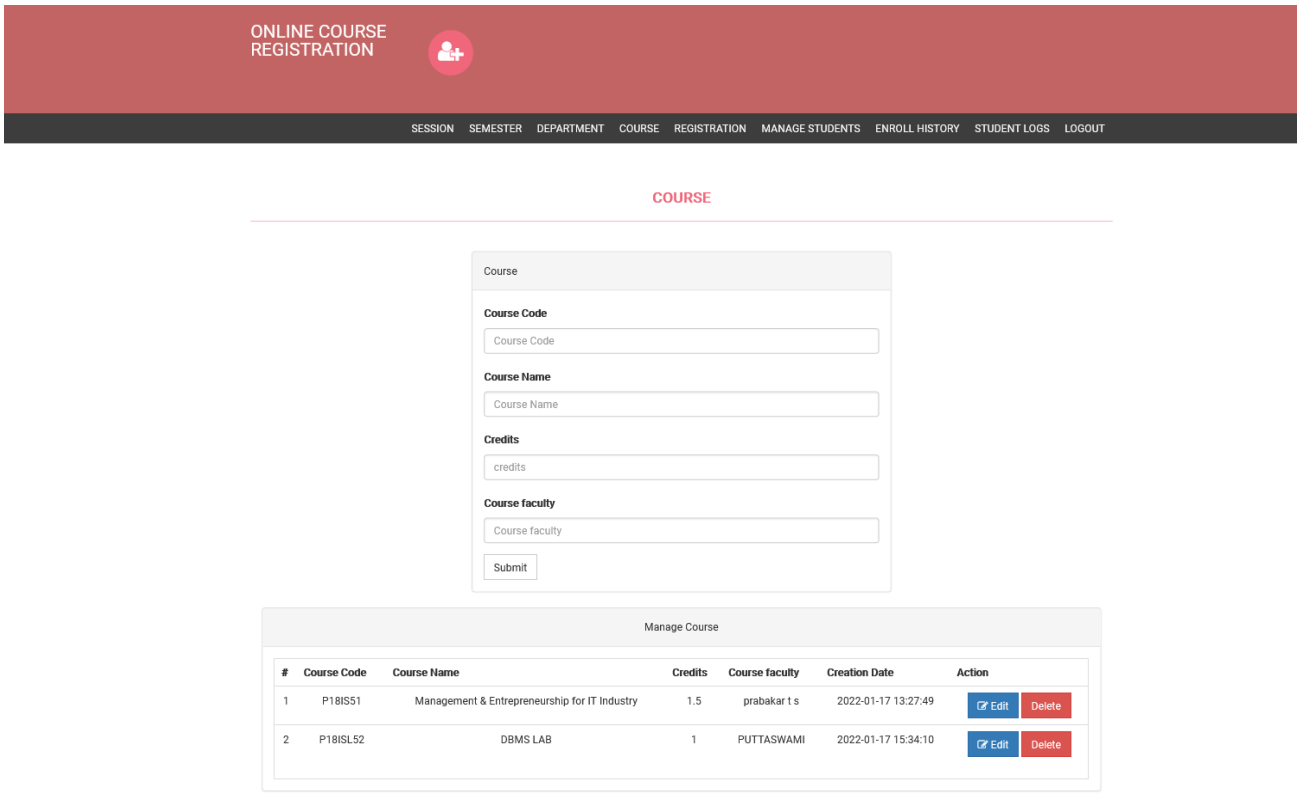
```
);

CREATE TABLE Courseenrolls
(
 stdent_reg_no VARCHAR(128) NOT NULL,
 pincode INT NOT NULL,
 session INT NOT NULL,
 department INT NOT NULL,
 year INT NOT NULL,
 semester INT NOT NULL,
 coursename INT NOT NULL,
 session VARCHAR(128) NOT NULL,
 semester INT NOT NULL,
 year VARCHAR(128) NOT NULL,
 department VARCHAR(128) NOT NULL,
 coursename VARCHAR(128) NOT NULL,
 pincode INT NOT NULL,
 stdent_reg_no VARCHAR(64) NOT NULL,
 PRIMARY KEY (stdent_reg_no, pincode, session, department, year, semester, coursename),
 FOREIGN KEY (session) REFERENCES Session(session),
 FOREIGN KEY (semester) REFERENCES Semester(semester),
 FOREIGN KEY (year) REFERENCES Year(year),
 FOREIGN KEY (department) REFERENCES Department(department),
 FOREIGN KEY (coursename) REFERENCES Course(coursename),
 FOREIGN KEY (pincode, stdent_reg_no) REFERENCES student(pincode, stdent_reg_no)
);
```

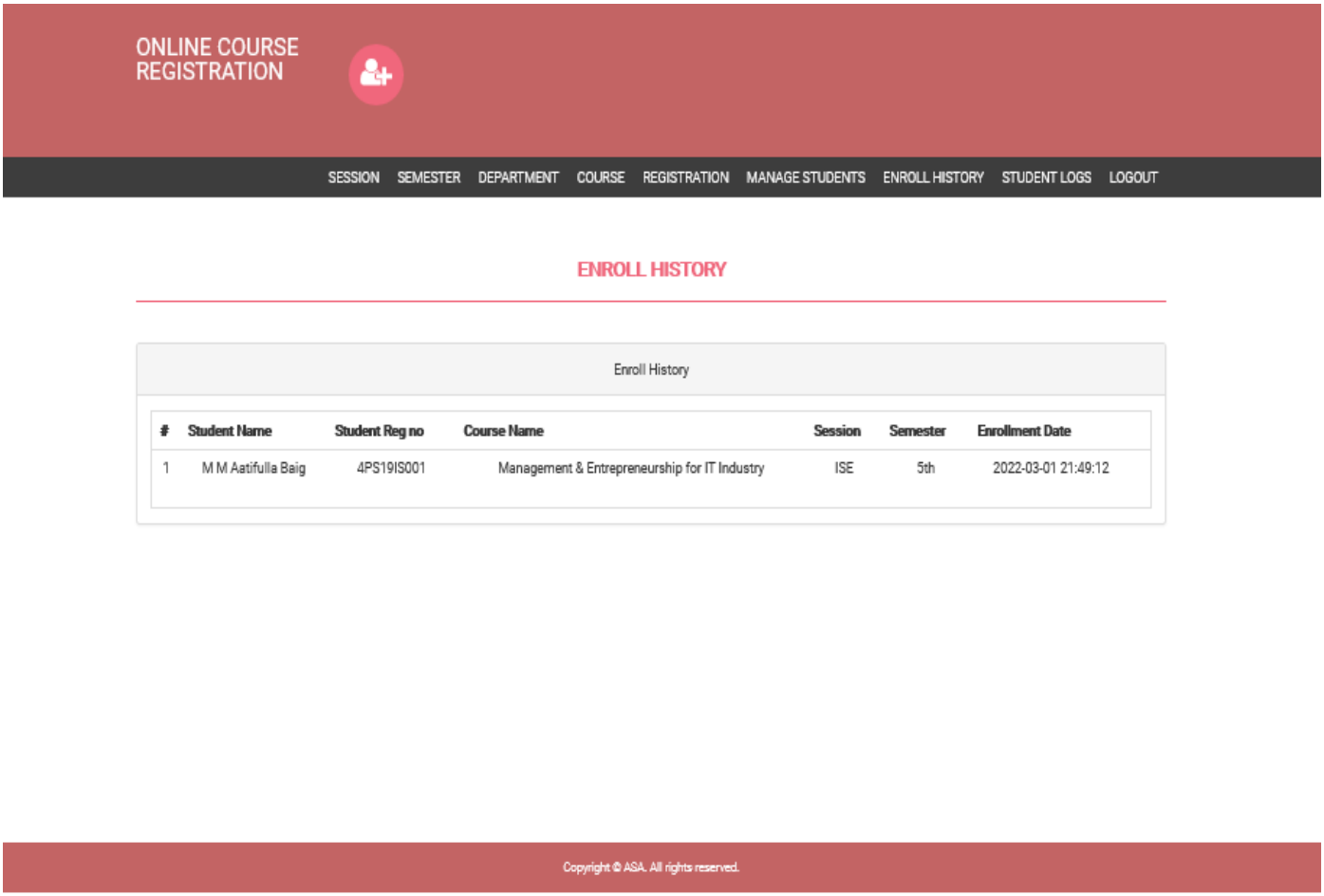
Chapter: 8

SNAPSHOTS

8.1 Admin Interface:






ONLINE COURSE REGISTRATION
SESSION SEMESTER DEPARTMENT COURSE REGISTRATION MANAGE STUDENTS ENROLL HISTORY STUDENT LOGS LOGOUT
ENROLL HISTORY
Enroll History
Student Name Student Reg no Course Name Session Semester Enrollment Date
1 M M Aatifulla Baig 4PS19IS001 Management & Entrepreneurship for IT Industry ISE 5th 2022-03-01 21:49:12
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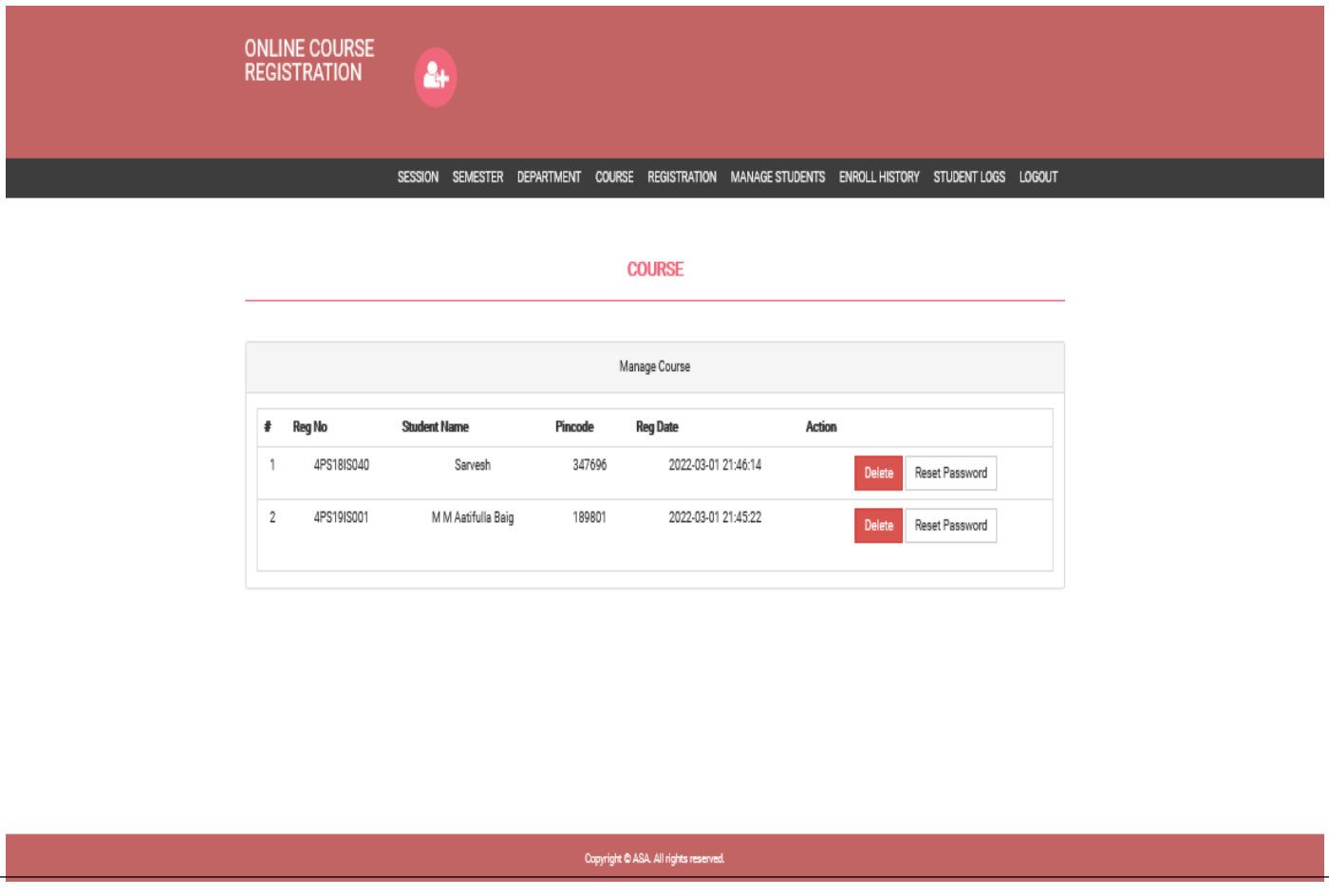
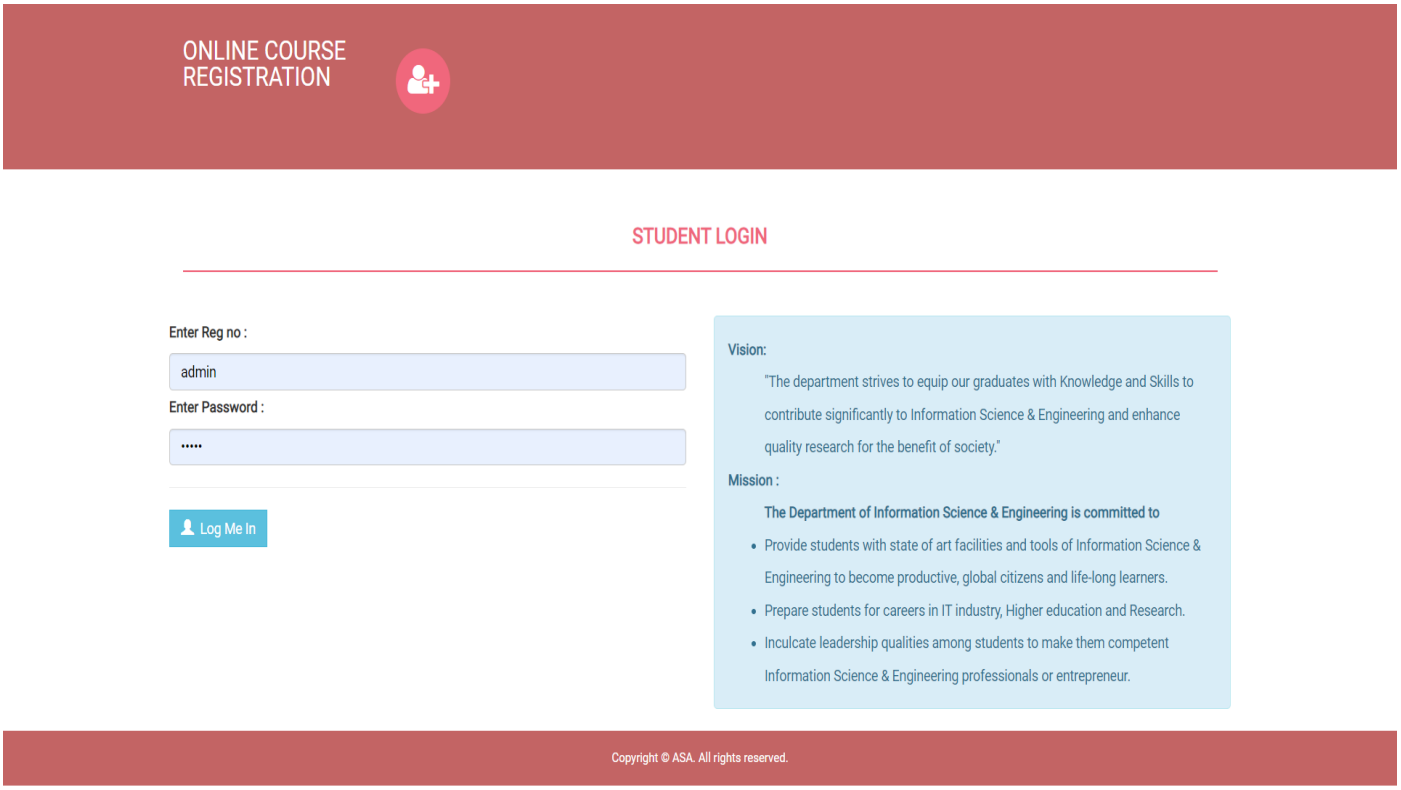
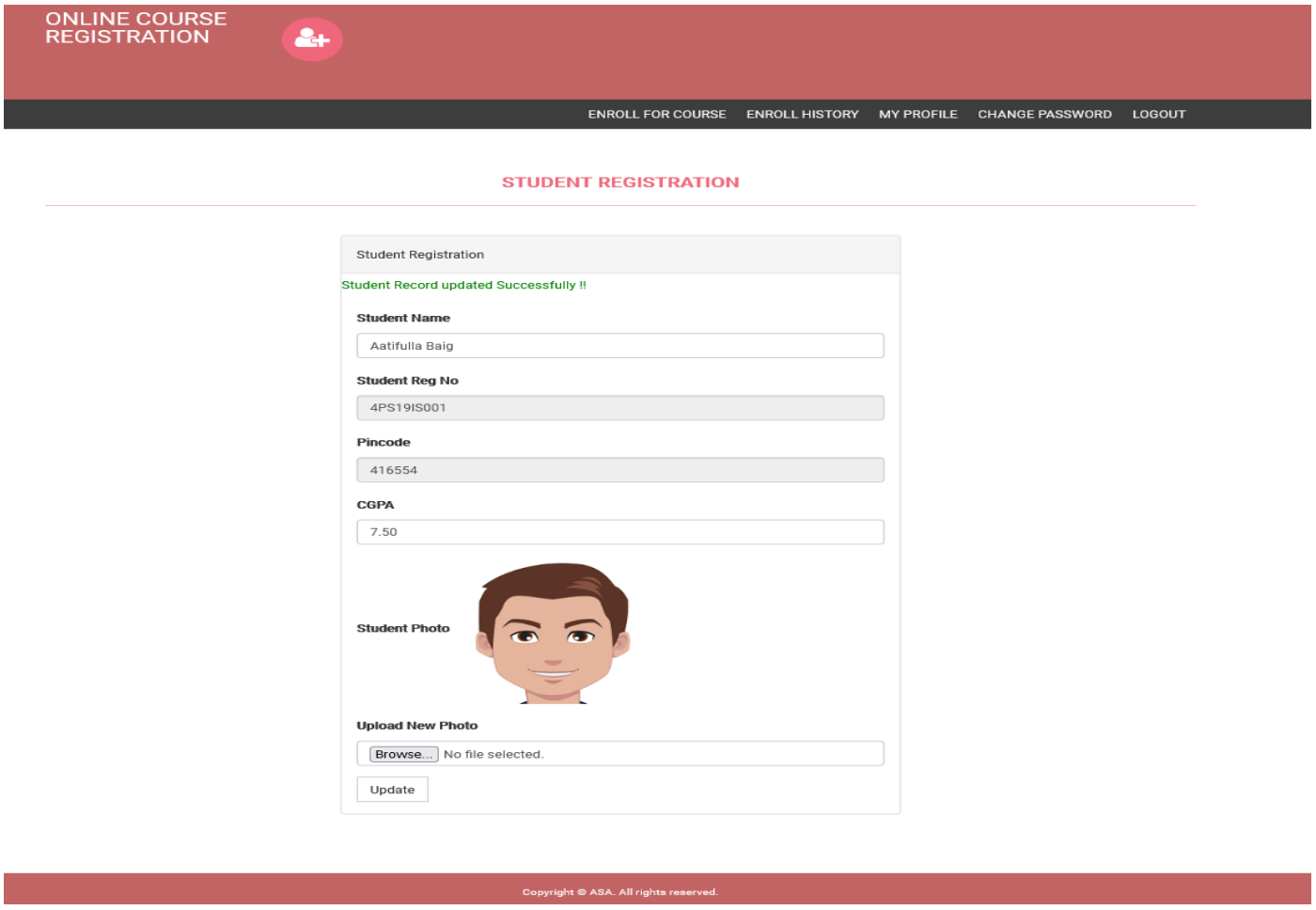
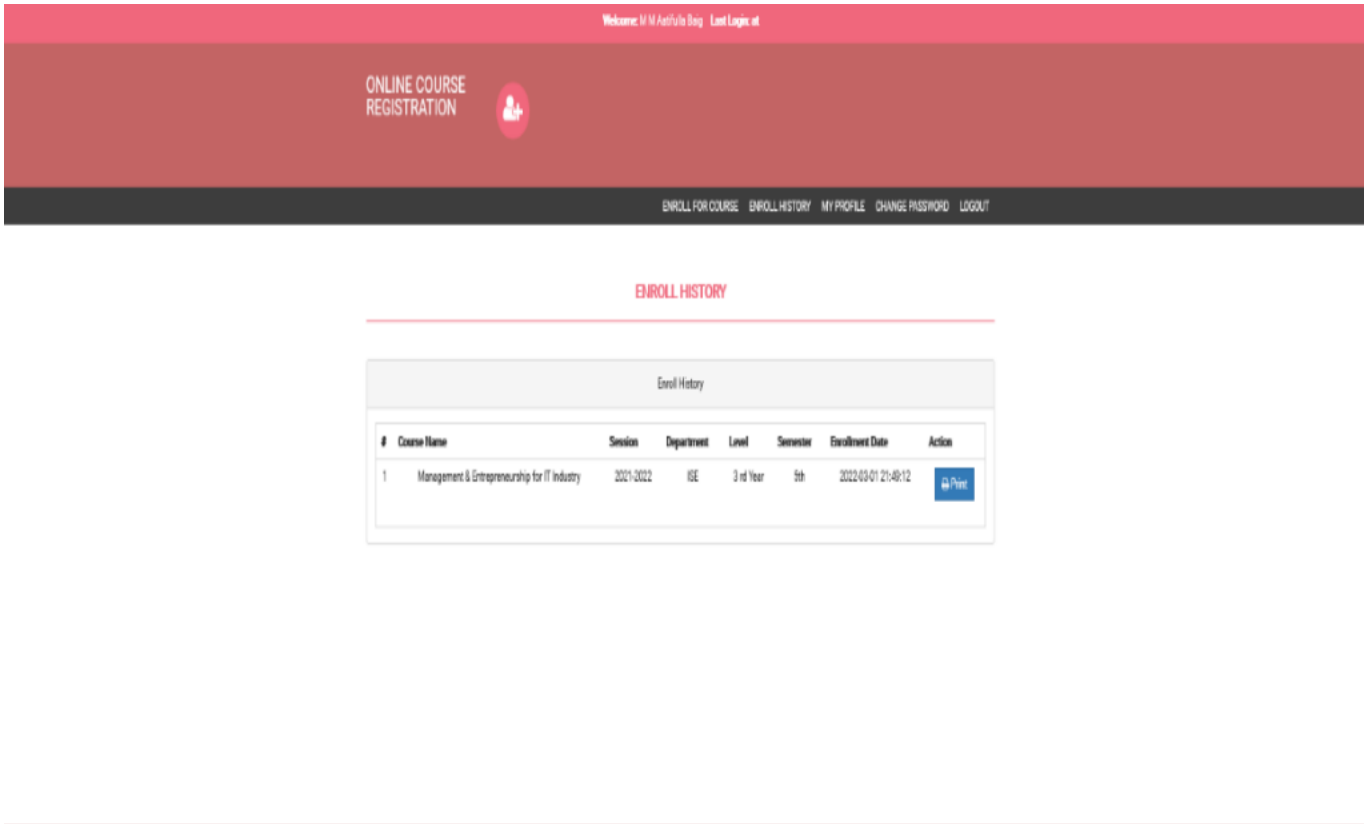
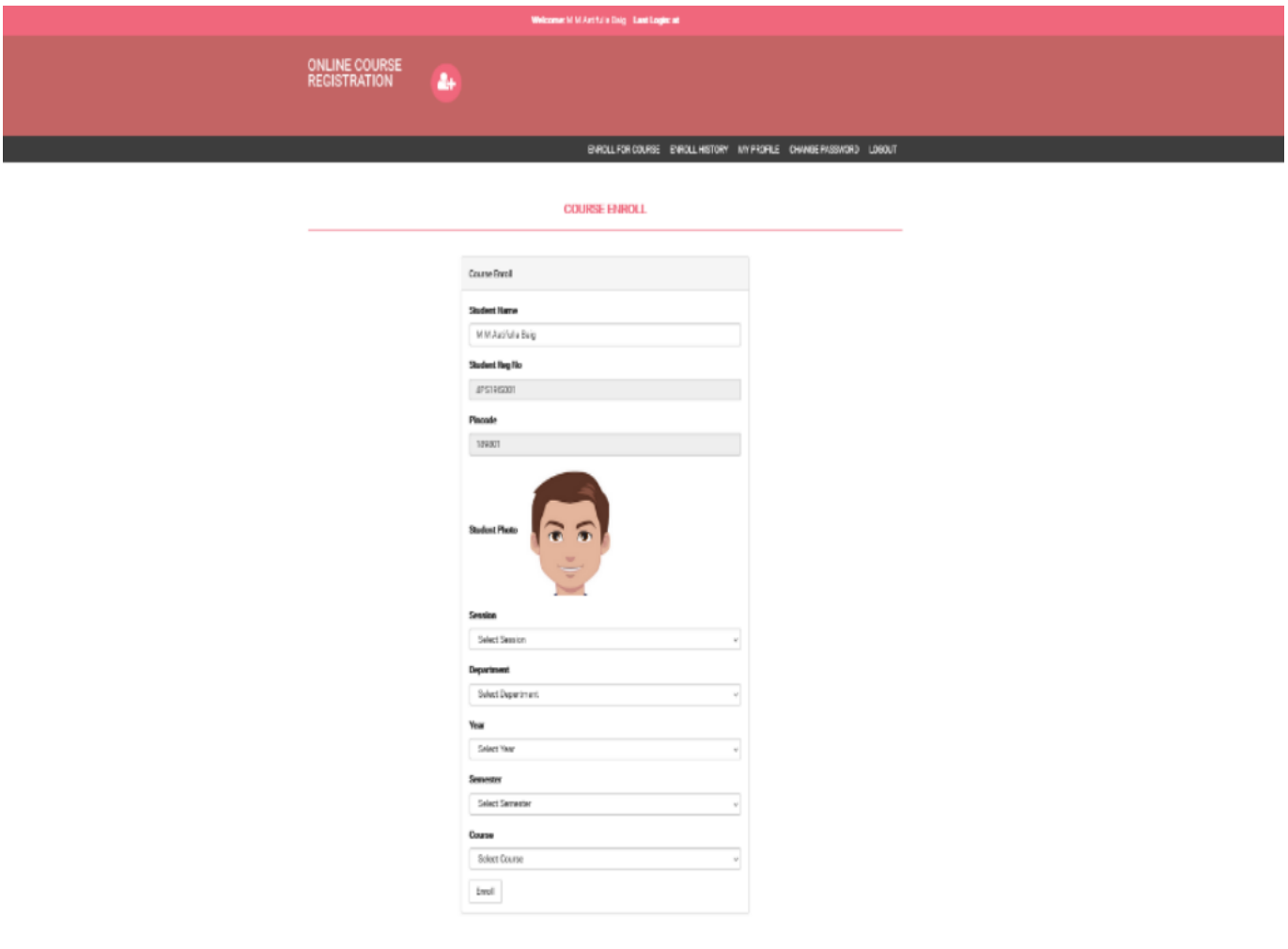

ONLINE COURSE REGISTRATION
SESSION SEMESTER DEPARTMENT COURSE REGISTRATION MANAGE STUDENTS ENROLL HISTORY STUDENT LOGS LOGOUT
COURSE
Manage Course
Reg No Student Name Pincode Reg Date Action
1 4PS18IS040 Sarvesh 347696 2022-03-01 21:46:14 Delete Reset Password
2 4PS19IS001 M M Aatifulla Baig 189801 2022-03-01 21:45:22 Delete Reset Password
Copyright © ASA. All rights reserved.

8.2 Student Interface:






ONLINE COURSE REGISTRATION
ENROLL FOR COURSE ENROLL HISTORY MY PROFILE CHANGE PASSWORD LOGOUT
ENROLL HISTORY
Enroll History
Course Name Session Department Level Semester Enrollment Date Action
1 Management & Entrepreneurship for IT Industry 2021-2022 ISE 3 rd Year 5th 2022-03-01 21:49:12 Print


ONLINE COURSE REGISTRATION
ENROLL FOR COURSE ENROLL HISTORY MY PROFILE CHANGE PASSWORD LOGOUT
COURSE ENROLL
Course Enroll
Student Name
Student Reg No
Pincode
Student Photo
Session
Department
Year
Semester
Course
Enroll

Chapter: 9

CONCLUSION

By using the system, most problems used to be faced by administration were now eliminated. This is done by the means of the online Registration system, which allows students to enter to the system verify and submit the registration easily. Using this system student can easily register to his/her desired course and the administraton can easily go through the student details and the courses which the student has opted. Administrator is able to alter the information incase the student has made some errors. This will also help to analyse the student data. Through this project storing of the data has become simple and accessing the same data has become easy.

Chapter: 10

REFERENCES

[1] DBMS: - Fundamentals of Database System

[2] PHP: -The Complete Reference

[3] https://www.geeksforgeeks.org

[4] https://www.youtube.com

[5] https://github.com.php