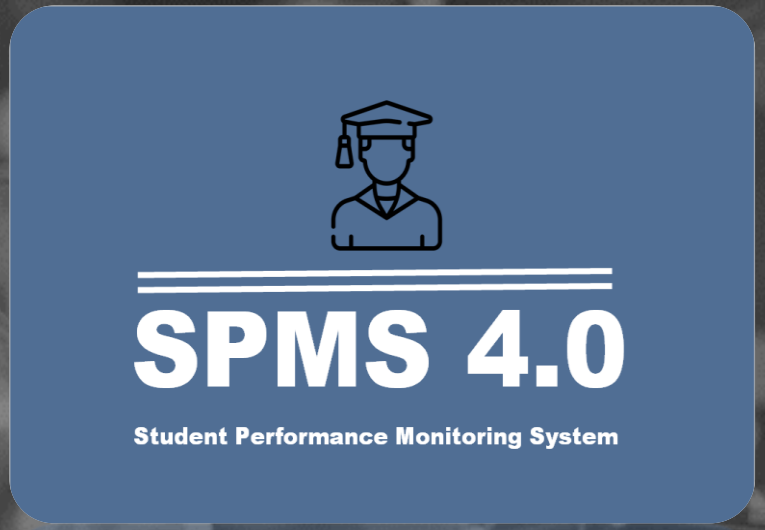


PRESENTATION TOPIC : STUDENT PERFORMANCE MONITORING SYSTEM

GROUP-17 : ERROR 404

Presented by : Abu sayed
Soumik Alam
Khademul islam
Al Rawnak Shafin
Mahabuba Akter Thithi
Rasel hossain

27.4.2023

SPMS 4.0

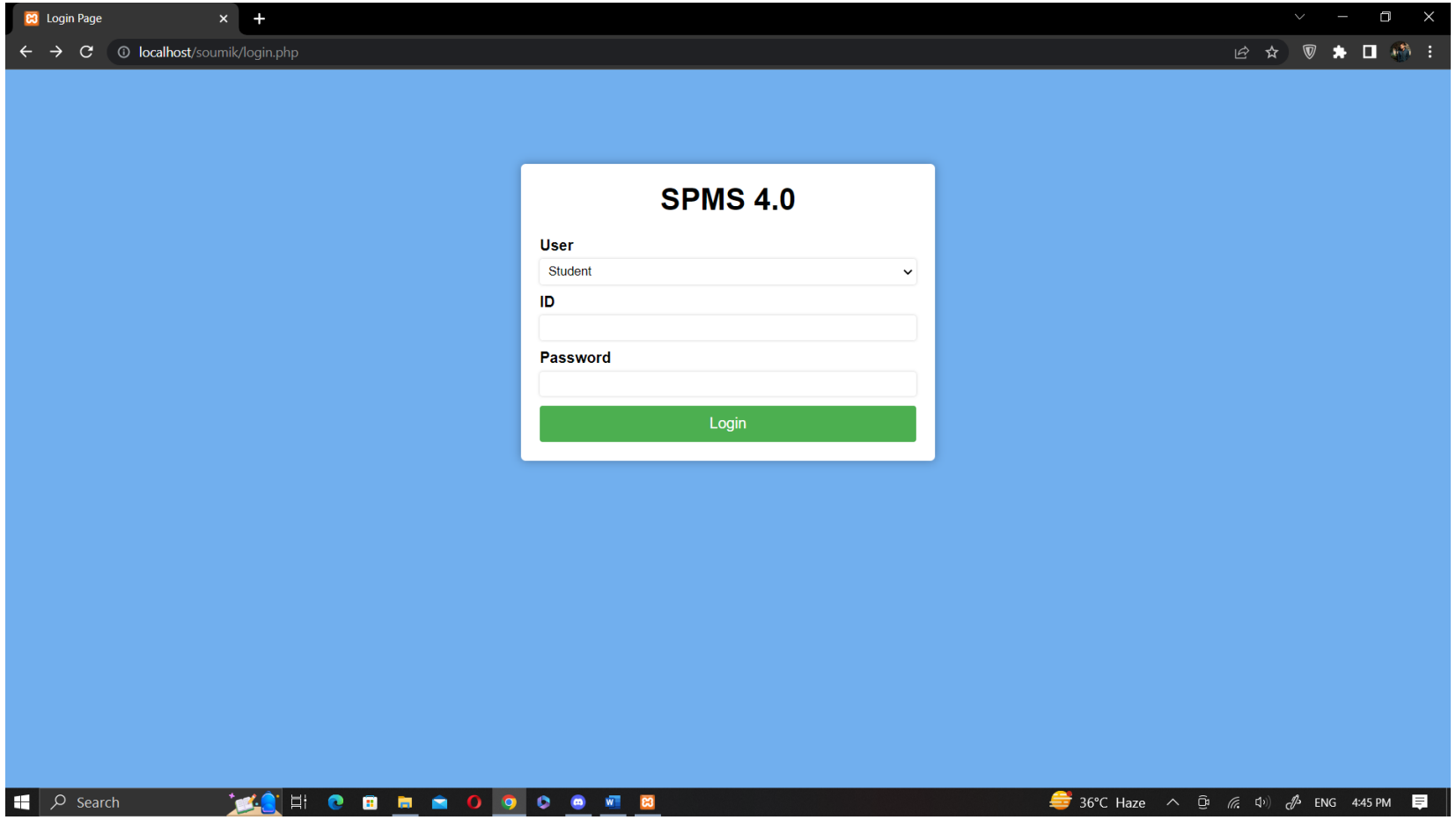
Student Performance Monitoring System

INTRODUCTION:

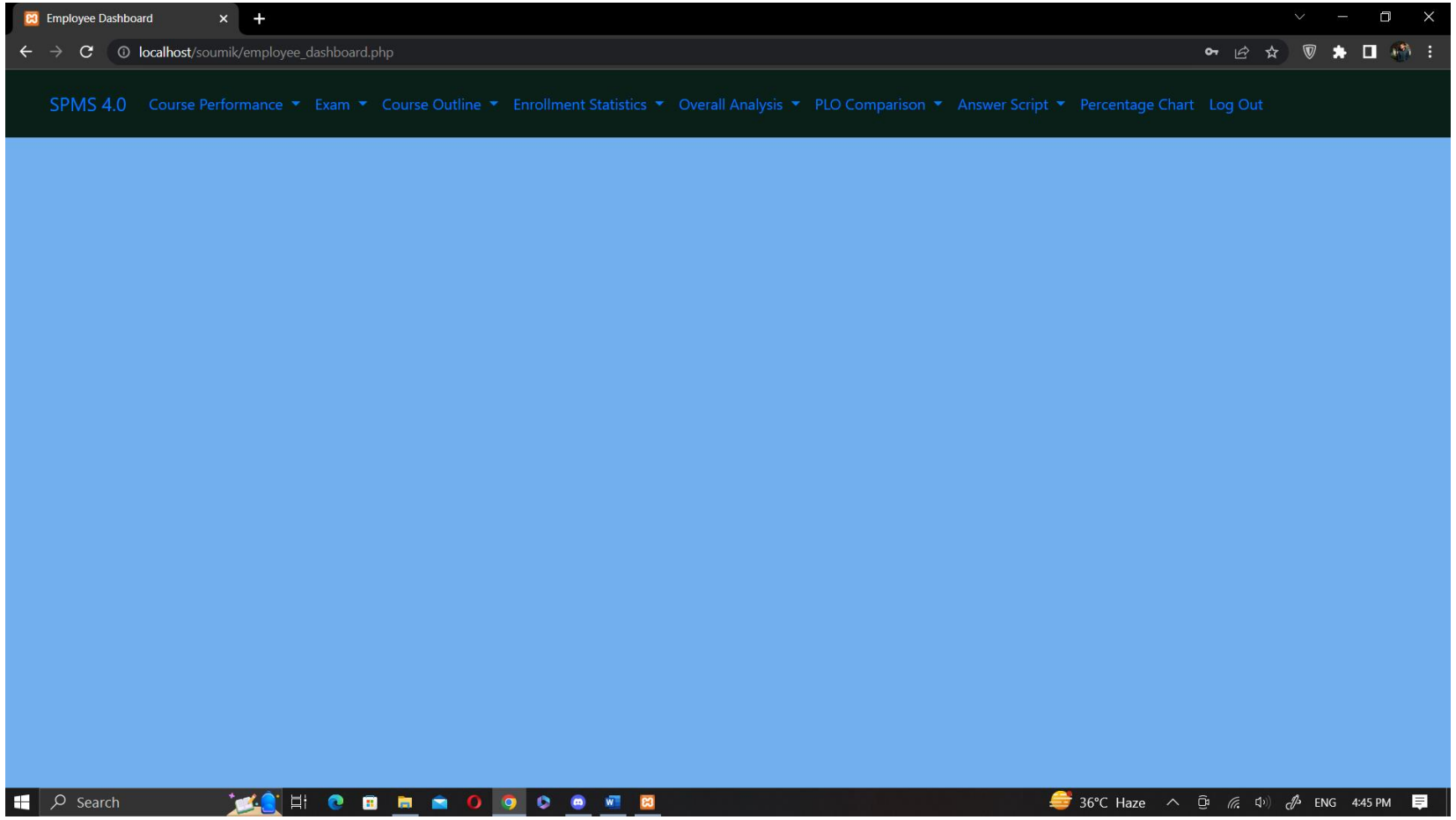
In order to manage and track students' academic progress, educational institutions must use a student performance monitoring system. The system makes use of a database management system (DBMS) to gather, store, and analyze many sorts of data about student performance, including grades, attendance, and disciplinary records. With the use of this data, teachers are better equipped to support specific kids, spot weaknesses in their lesson plans and instructional strategies, and make sure that all students are meeting the necessary academic standards. Implementing a system to track student achievement can raise the standard of instruction offered by a school and eventually assist students in achieving their academic objectives. Organizing and managing the necessary data in this situation requires the use of DBMS.

LET'S DIVE INTO THE WEB-BASED STUDENT PERFORMANCE MONITORING SYSTEM

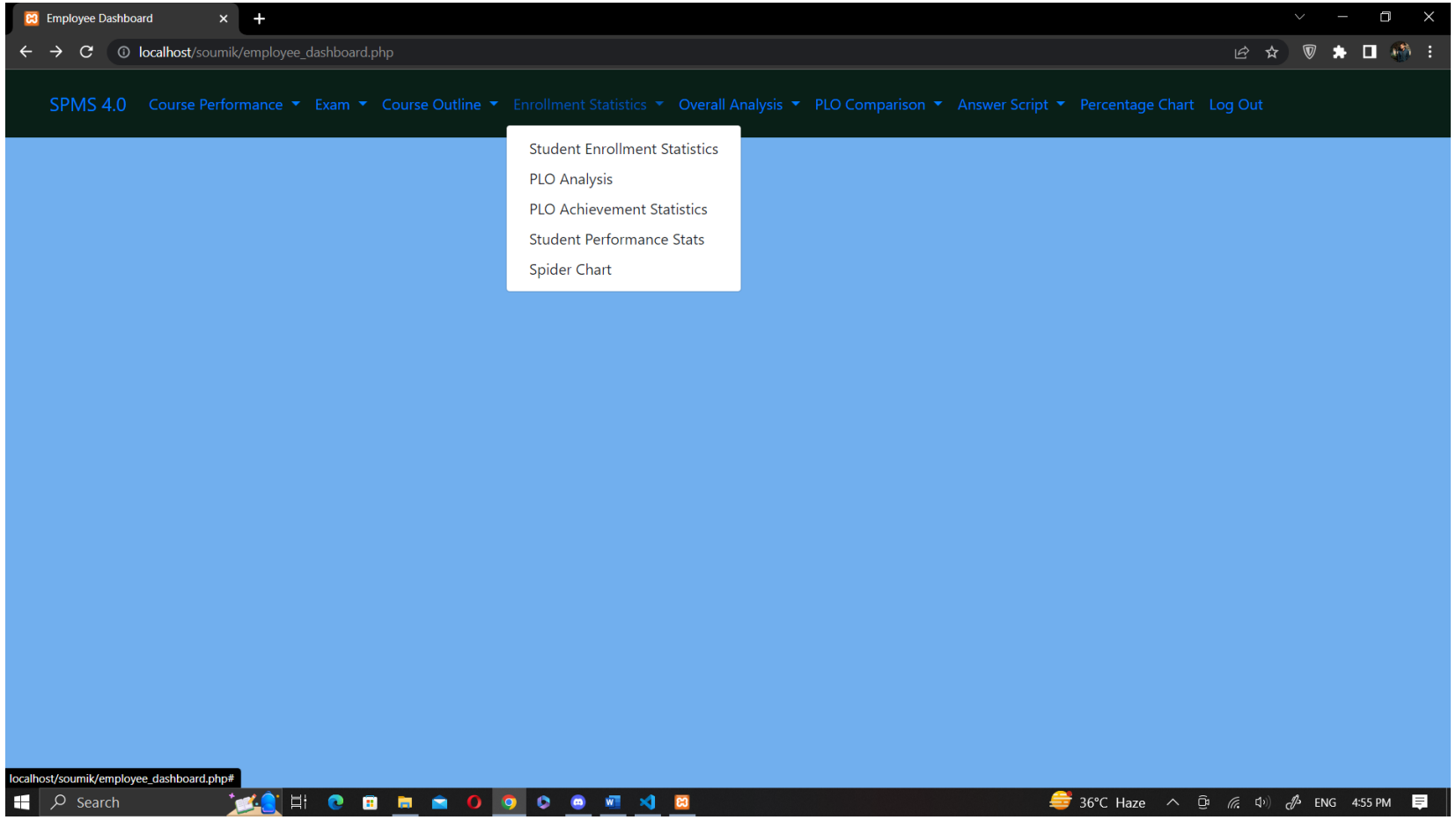
LOGIN PAGE OF STUDENT PERFORMANCE MONITORING SYSTEM:



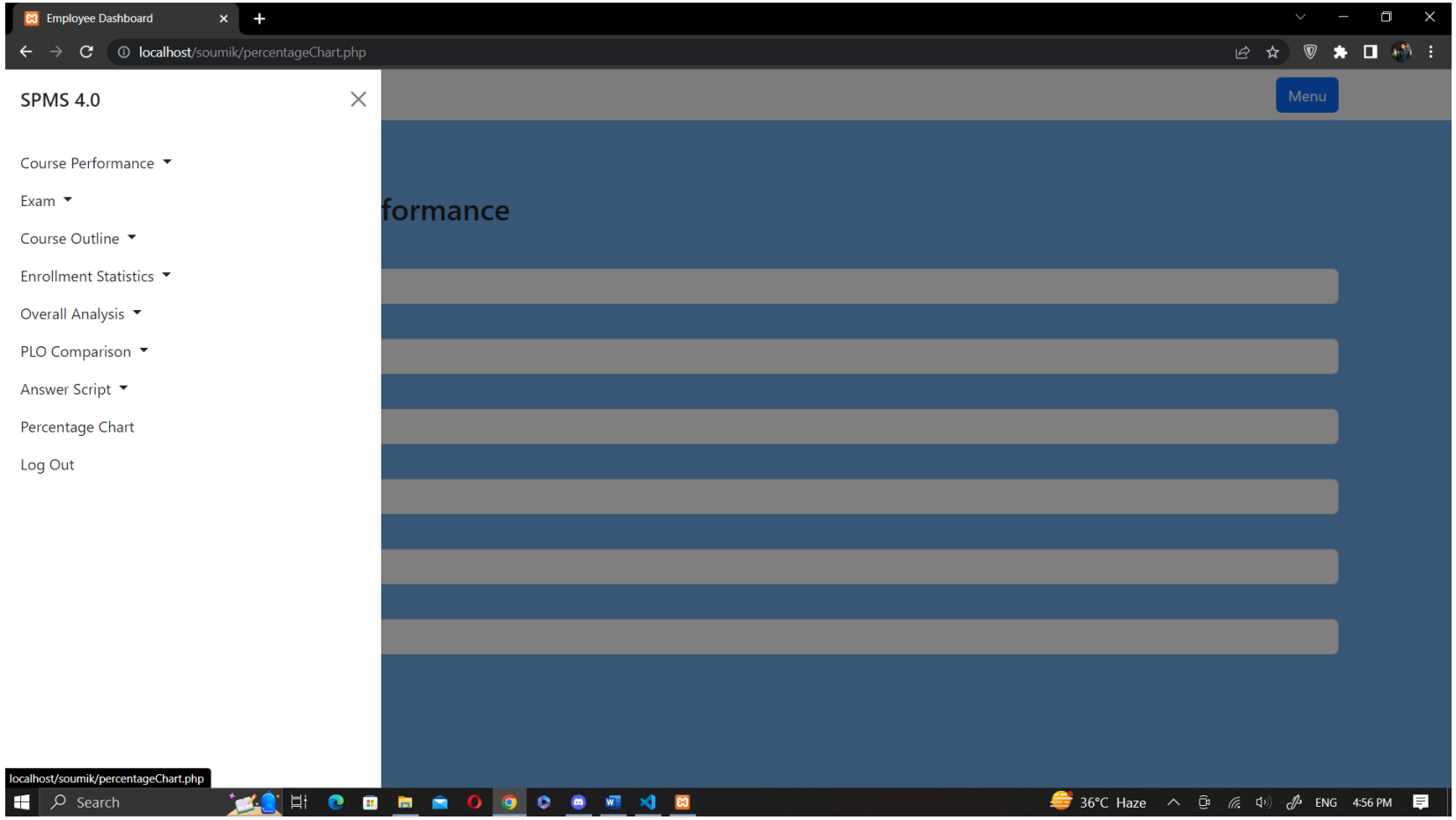
DASHBOARD OF STUDENT PERFORMANCE MONITORING SYSTEM:



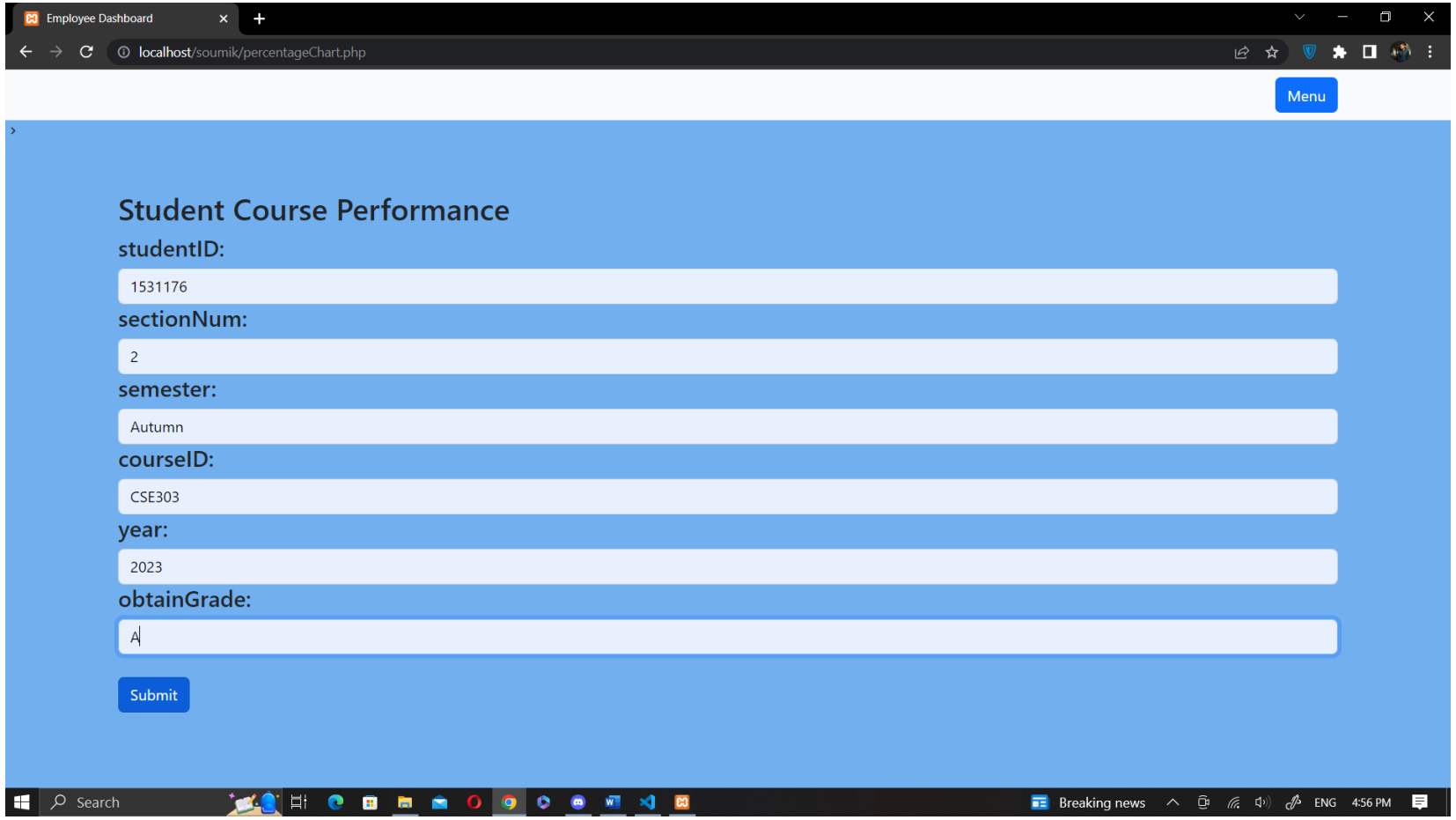
DASHBOARD OF STUDENT PERFORMANCE MONITORING SYSTEM:



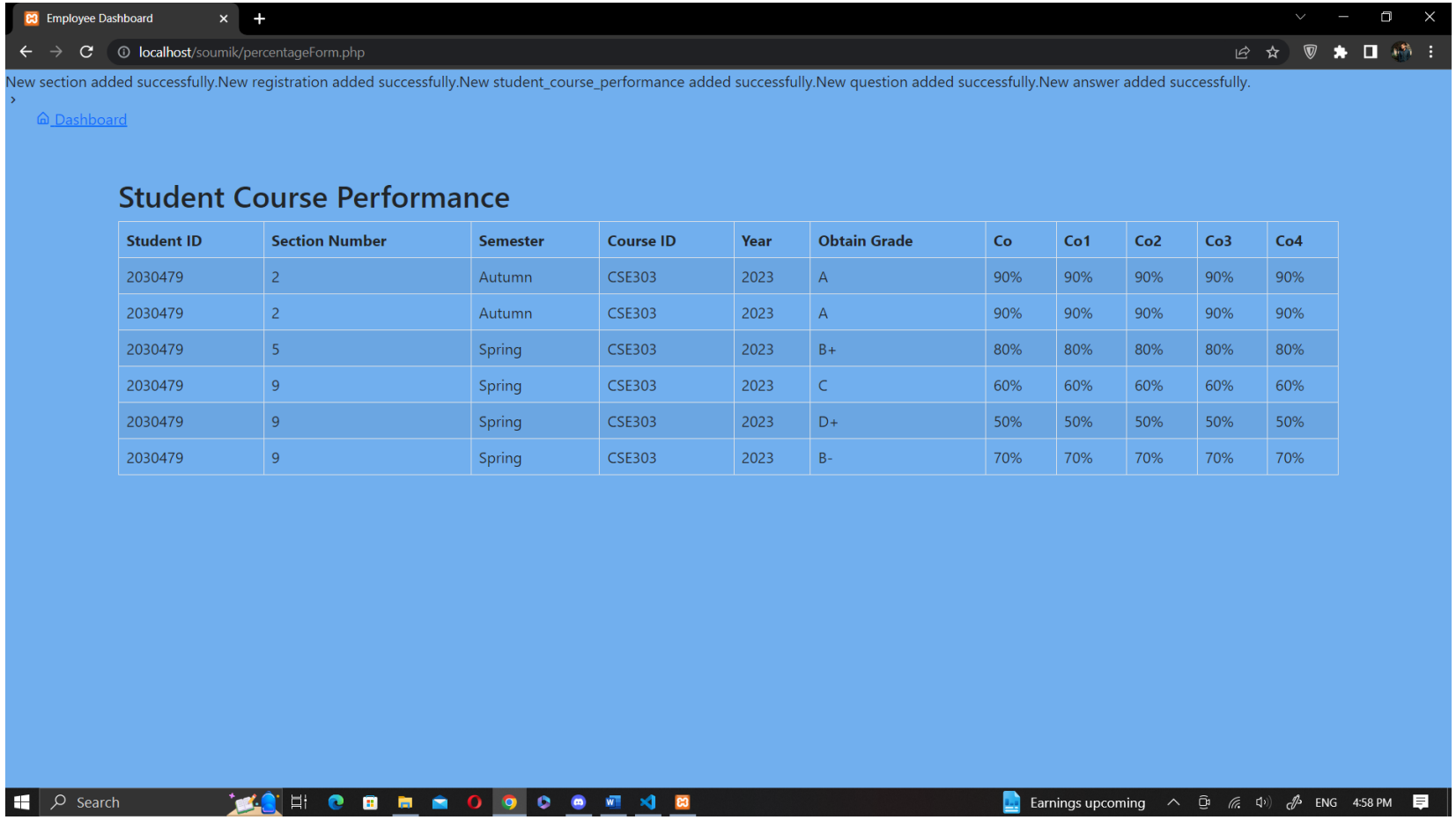
DASHBOARD OF STUDENT PERFORMANCE MONITORING SYSTEM:



COURSE PER. PAGE OF STUDENT PERFORMANCE MONITORING SYSTEM:



COURSE PER. RESULT OF STUDENT PERFORMANCE MONITORING SYSTEM:



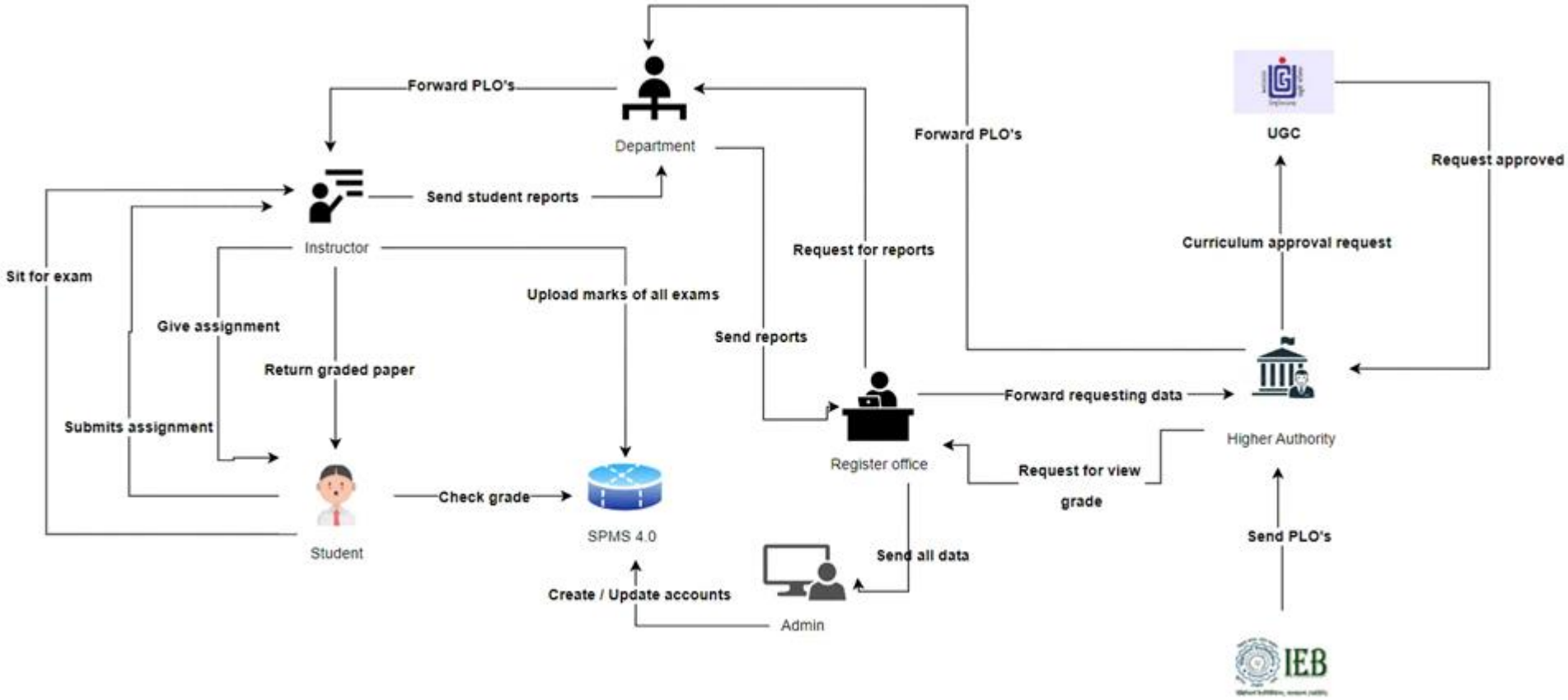
PROGRAM WE USED TO BUILD THE SYSTEM:

HTML/CSS: HTML is used for creating the structure of a webpage, while CSS is used for styling it.

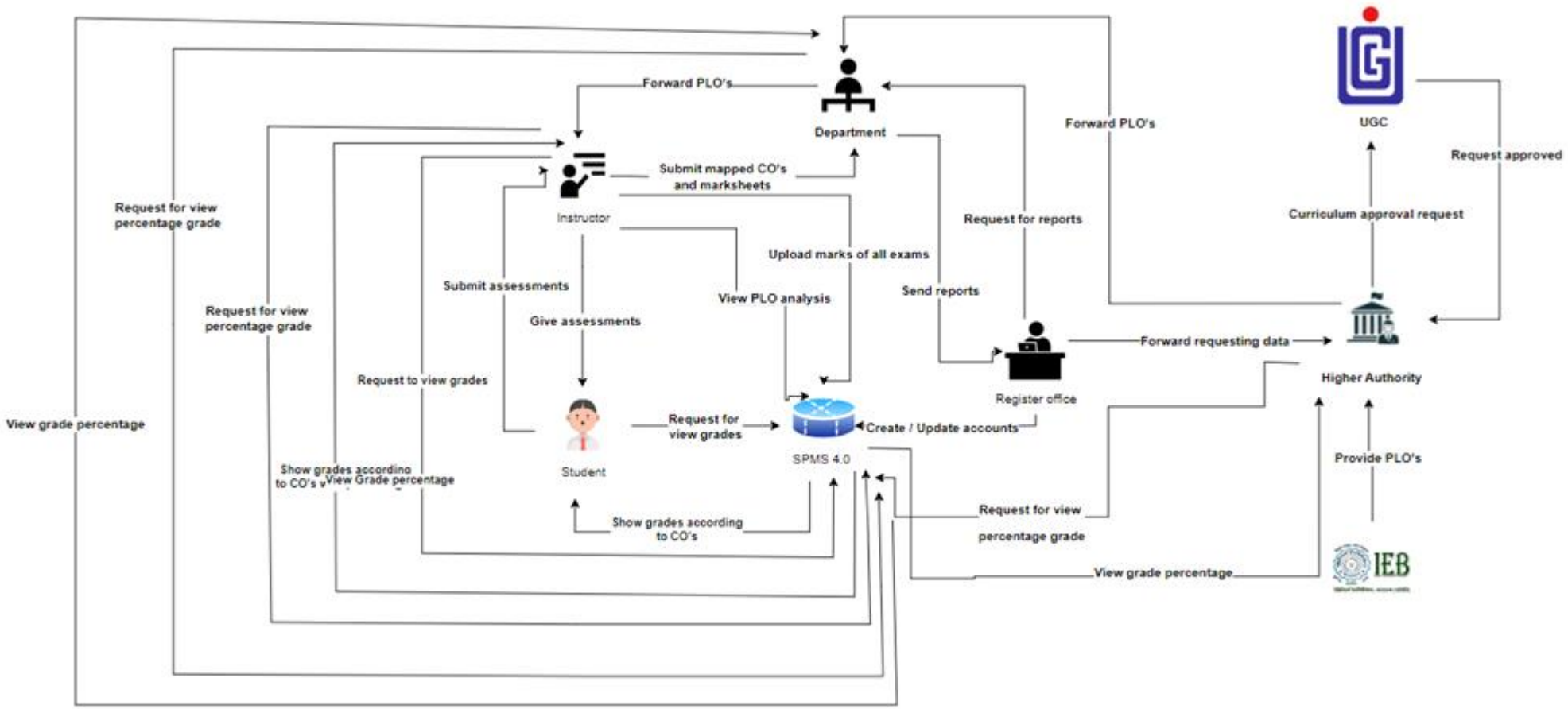
JavaScript: A popular programming language used for adding interactivity and dynamic functionality to webpages.

PHP: A server-side scripting language that can be used to build dynamic websites and web applications.

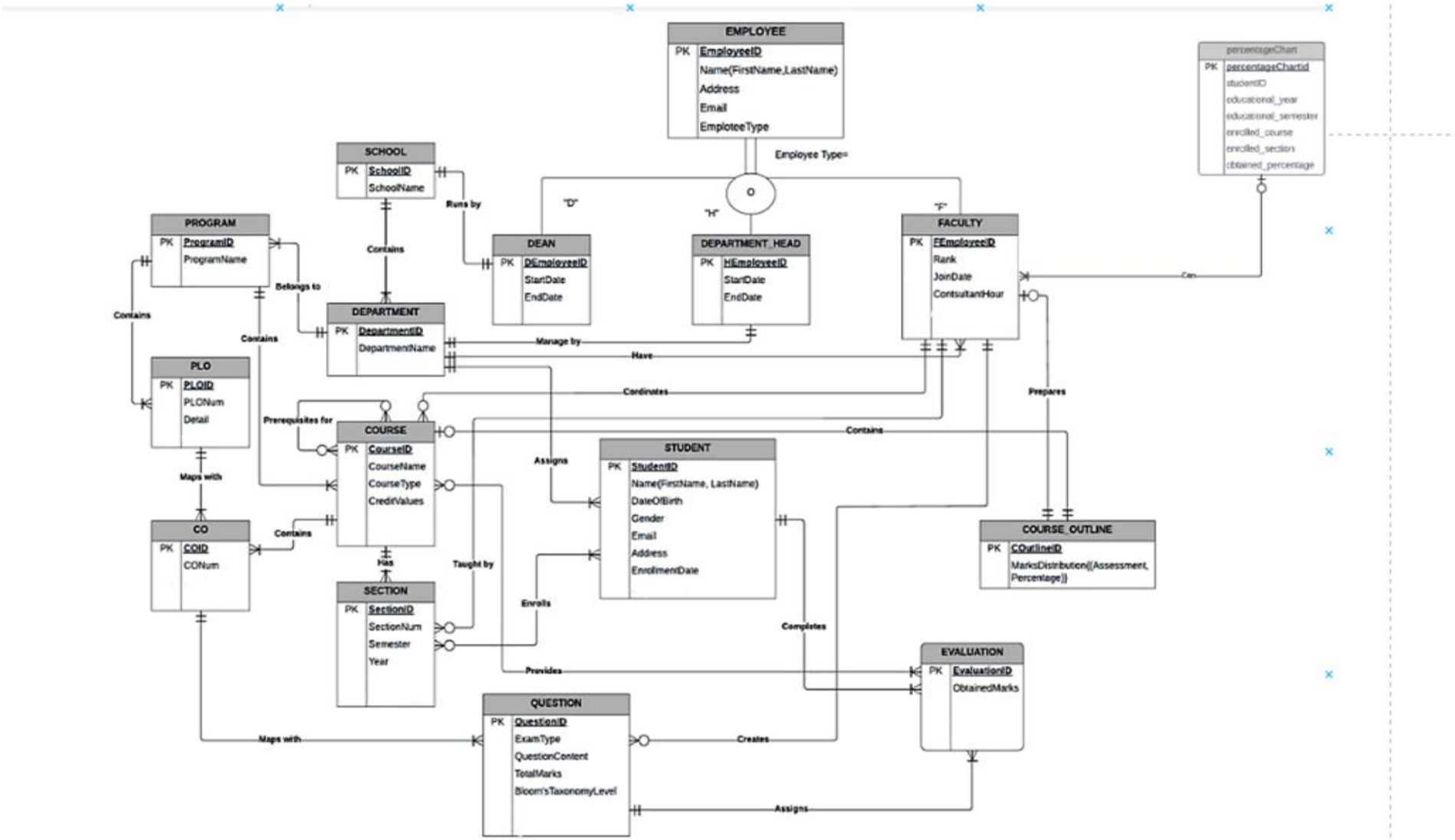
RICH-PICTURE(AS-IS) FOR THE SYSTEM:



RICH-PICTURE(TO-BE) FOR THE SYSTEM:



ERD FOR THE SYSTEM:



DATA DICTIONARY FOR THE SYSTEM:

E. DATA DICTIONARY:

School_T:

Name	Data Type	Size	Remarks
SchoolID	VARCHAR	5	This is the primary key of School. E.g: "SETS'' or "SLASS"
SchoolName	VARCHAR	45	This is the name of the School. E.g: "School of Engineering, Technology & Science".

Program_T:

Name	Data Type	Size	Remarks
ProgramID	INTEGER		This is the primary key for a program. E.g: "1"
ProgramName	VARCHAR	30	This is the name of the program. E.g: "Bachelor of Science"
DepartmentID	VARCHAR	4	This is the foreign key from the Page 48 Department table. E.g: "CSE" or "BBA''

Student_T

Name	Data Type	Size	Remarks
StudentID	INTEGER		This is the primary key for the Student table. E.g: "2030479".
FirstName	VARCHAR	20	This is the first name of the student. E.g: "Soumik".
LastName	VARCHAR	20	This is the last name of the student. E.g: "Alam".
DateOfBirth	DATE DD-MM-YYYY		This is the birth date of the student. E.g: "31-

Department_T

Name	Data Type	Size	Remarks
DepartmentID	VARCHAR	5	This is the primary key for the Department table. E.g: "CSE"
DepartmentName	VARCHAR	45	This is the name of the department. E.g: "Computer Science and Engineering".
SchoolID	VARCHAR	5	This is a foreign key from the School table. E.g: "SETS"or "SLASS''.

DATA DICTIONARY FOR THE SYSTEM:

			12-2001".
Gender	VARCHAR	6	This is the gender of the student. E.g: "Male".
Email	VARCHAR	30	This is the email of the student. E.g: "2030479@iub.edu.bd"
Phone	NUMERIC	11	This is the phone of the student. E.g: "01XXXXXXXXX".
Address	VARCHAR	50	This is the address of the student. E.g: "House 238,Road 8,Tejgaon,Dhaka
DepartmentID	VARCHAR	5	This is the foreign key from the Department table. E.g: "CSE"
ProgramID	INTEGER		This is the foreign key from the Program table. E.g: "1"
EnrollmentDate	DATE (dd-mm-yyyy)		This is the enrollment date of the student. Page 50 E.g.: "1-1-2020"

CO_T

Name	Data Type	Size	Remarks
COID	VARCHAR	5	This is the primary key for the CO table. E.g: "CO1".
CONum	INTEGER		This is the CO number. E.g: 1,2 etc.
CourseID	VARCHAR	8	This is the foreign key from the Course table. E.g: "CSE303"
PLOID	VARCHAR	5	This is the foreign key from the PLO table. E.g: "PLO1"

PLOID	VARCHAR	5	This is the primary key for Program Learning Outcome. E.g: "PLO1"
PLONum	INTEGER		This is the PLO number. E.g: "1"
Details	VARCHAR	50	This is the details for Program Learning Page 51 Outcome. E.g: "An ability to select and apply the knowledge, technique, skills and modern tools of the computer science and engineering discipline"
ProgramID	INTEGER		This is a foreign key from the Program table. E.g: "1"

Employee_T

Name	Date Type	Size	Remarks
EmployeeID	INTEGER		This is the primary key for Employee table. E.g: "1001"
FirstName	VARCHAR	20	This is the first name of the faculty. E.g: "Sadita"
LastName	VARCHAR	20	This is the last name of the faculty. E.g: "Ahmed"
Email	VARCHAR	30	This is the email address of the Student. E.g: "1675231@iub.edu.bd "
Address	VARCHAR	30	This is the address of the Faculty. E.g: "House 14, Road 21, Section 2, Mirpur,Dhaka, Bangladesh"
EmployeeType	CHAR	1	This is the type of the

DATA DICTIONARY FOR THE SYSTEM:

Course_T

Name	Data Type	Size	Remarks
CourseID	VARCHAR	8	This is the Primary Key for the Course. E.g: "CSE203"
CourseName	VARCHAR	40	This is the name of the Course. E.g: "Database Management System"
CreditValues	INTEGER		This is the number of credits for the Course. E.g: "3"
CourseType	VARCHAR	10	This is the type of the Course. E.g: "Core"
ProgramID	INTEGER		This is the foreign key from the program table. E.g: "1"
COutlinID	INTEGER		This is the Foreign Key from Course table.

Section_T

Name	Data Type	Size	Remarks
SectionID	INTEGER		This is the Primary Key for Section. E.g: "1"
SectionNum	INTEGER		This is the section number. E.g: "1"
CourseID	VARCHAR	8	This is the foreign key from the Course table. E.g: "CSE101"
FEmployeeID	NUMERIC	4	This is the foreign key from the Faculty table. E.g: "1001"
Semester	VARCHAR	6	This is the semester of the section. E.g: "Spring"

Question_T

Name	Data Type	Size	Remarks
QuestionID	INTEGER		This is the Primary Key for Question.
ExamType	VARCHAR	10	This is the name of the question. E.g: "Midterm"
TotalMarks	NUMBER		This is the total marks of the question. E.g: "30"
Cate gory	VARCHAR	10	This is the category of the question. E.g: "Creating"
Level	VARCHAR	10	This is the difficulty of the question. E.g: "Medium"
COID	INTEGER		This is the Foreign Key from the Course Outcome table.
QuestionContent	INTEGER		This is the question number for question. E.g: "1,2,3...."
SectionID	INTEGER		This is the Foreign Key from Section table.
FEmployeeID			This is the Foreign Key from Faculty table

Evalution_T

Name	Data Type	Size	Remarks
EvaluationID	INTEGER		This is the Primary Key for Enrollment.
ObtainedMarks	DECIMAL	5,2	This is the obtained marks of the student. E.g: "24.5"
QuestionID	INTEGER		This is the foreign key Page 55 from the Question table.
CourseID	VARCHAR	8	This is the foreign

DATA DICTIONARY FOR THE SYSTEM:

			key from the Course table. E.g: "CSE101"
StudentID	INTEGER		This is the foreign key from the Student table.

Dean_T

Name	Data Type	Size	Remarks
DEmployeeID	INTEGER		This is the foreign key from the Employee table. E.g: "4250"
SchoolID	VARCHAR	5	This is the SchoolID of the school DEAN manages. E.g: "SETS"
StartDate	DATE (dd-mm-yyyy)		This is the starting date. E.g: "01-03-2020"
EndDate	DATE (dd-mm-yyyy)		This is the date DEAN retire from his post. E.g: "01-03- 2024"

DepartmentHead_T

Name	Data Type	Size	Remarks
HEmployeeID	INTEGER		This is the foreign key Page 56 from the Employee table. E.g: "4250"
DepartmentID	VARCHAR	5	This is the DepartmentID of the department HEAD manages. E.g: "CSE"
StartDate	DATE (dd-mm-yyyy)		This is the starting date. E.g: "01-03-2020"
EndDate	DATE (dd-mm-yyyy)		This is the date HEAD retire from his post. E.g: "01-03- 2024"

PreReqCourse_T

Name	Data Type	Size	Remarks
CourseID	VARCHAR	8	This is the foreign key from the Course table. E.g: "CSE303"
PreReqCourseID	VARCHAR	8	This is the foreign key from the Course table. E.g: CSE203

CourseOutline_T

Name	Data Type	Size	Remarks
COutlineID	INTEGER		This is the primary key from the Course Outline table. E.g: "1233"
MarkDistribution	VARCHAR	15	This is the percentage range

			for assessment. E.g: "Project- 50%, Assessment-50%".

NORMALIZATION FOR THE SYSTEM:

T1

G1	S1	S2	D1	D2	P1	P2	L2	L3	C2	G3	G4	A1
A2	A3	A4	F1	N1	N2	H1	H2	H3	H4	H5	H6	H7
H8	Q1	Q2	Q3	Q4	Q5	Q6	Q7	F2	F3	F4	O1	O2
O3	J1	J2	J3	K1	K2	K3	Z1	Z2	Z3	Z4	Z5	Z6	G2

T2

C1	C2	L1	E1	E2	E3	E4	E5

1NF: T11

G1	G2	G3	G4	A1	A2	A3	A4	F1	F2	F3	F4

T12

N1	N2	H1	H2	H3	H4	H5	H6	H7	H8	Q1	Q2	Q3	Q4
Q5	Q6	Q7	O1	O2	O3	P1	P2	L1	L2	L3	Z1	Z2	Z3
Z4	Z5	Z6

T13

K1	K2	K3	D1	D2

T14

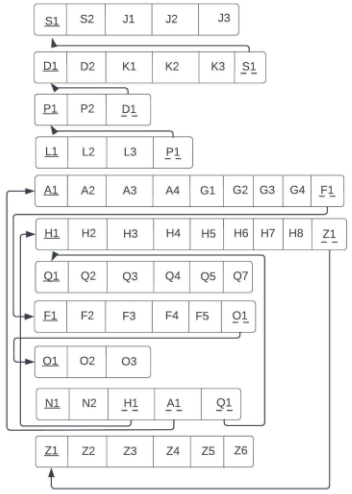
J1	J2	J3	S1	S2

T2 already exists

2NF:

Partial dependency has been removed

3NF:



T2 already exists

BCNF:

Already in BCNF Form as there is no determinant that is not a unique identifier


THANK YOU