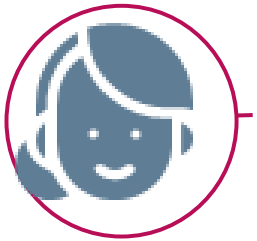
DATABASE MANAGEMENT SYSTEM PROJECT(SPMS 4.0)

PRESENTED BY: GROUP 34



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Hummah Khadija Nirjana (2021868)

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Md Shakil Ahmed (2120290)

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Maruf Hossain Rion (2010597)

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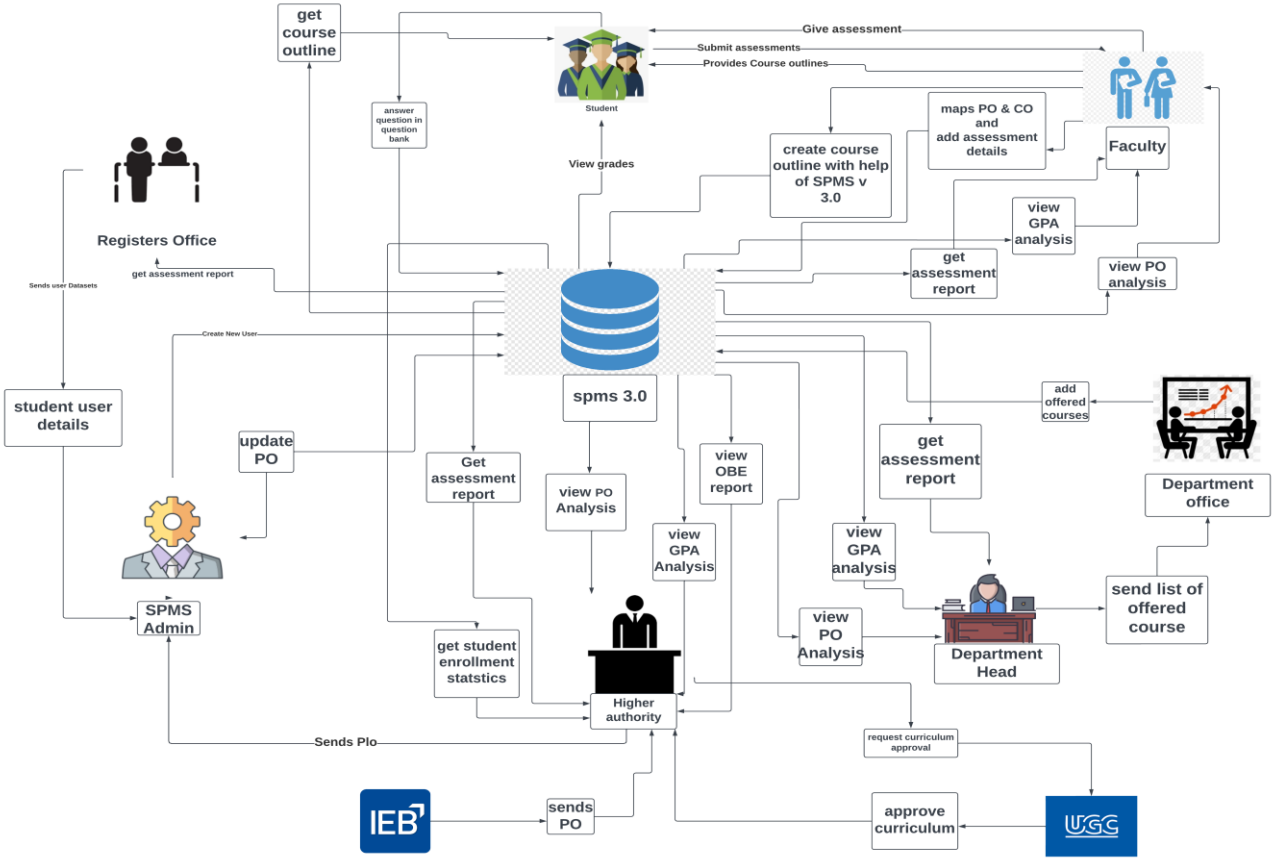
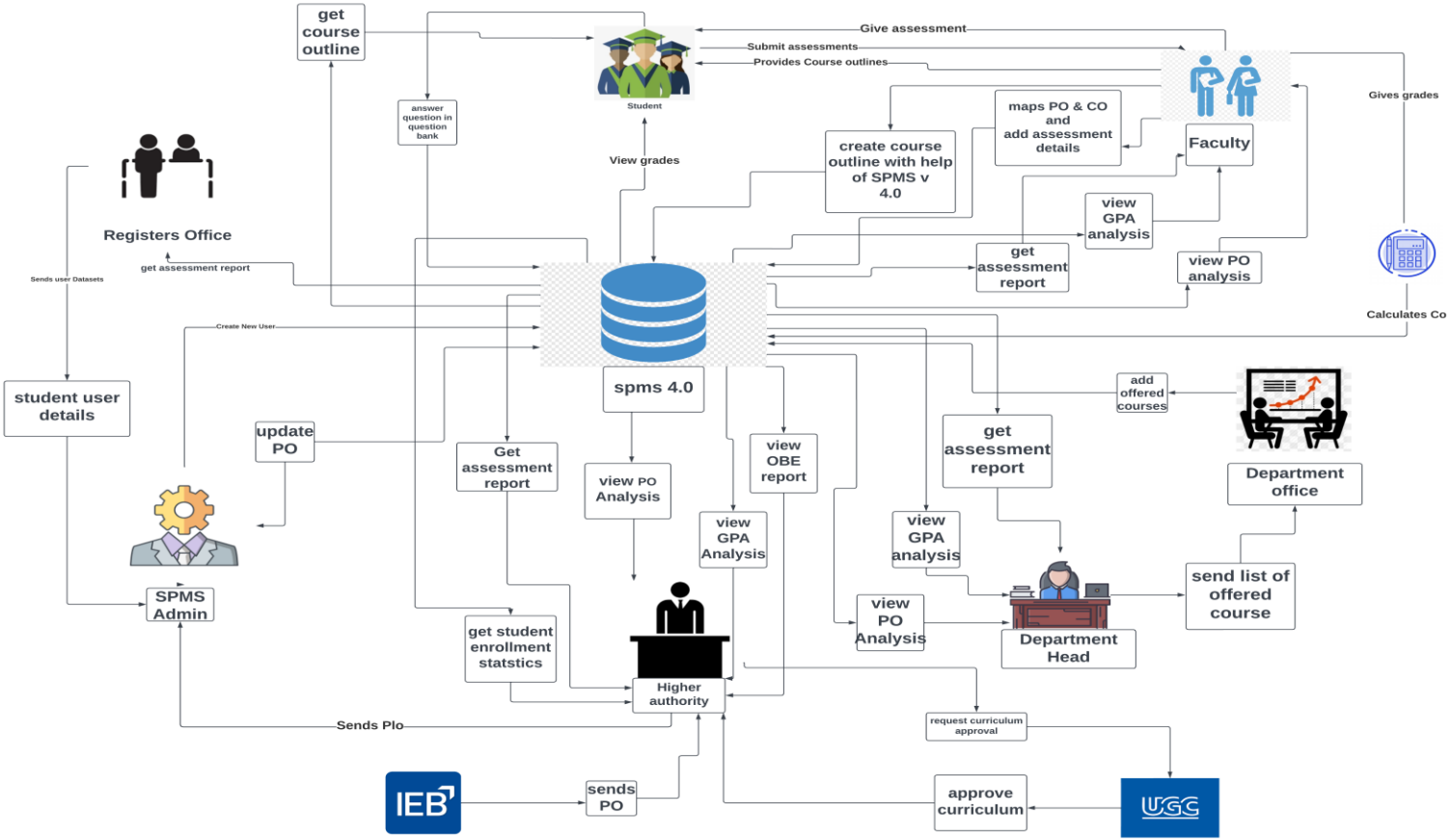
RICH PICTURE (AS IS SYSTEM)



PROBLEM ANALYSIS

Process Name	Stake Holders	Concerns (Problems)	Analysis (Reason of the Problem)	Proposed Solution
Assessments and Grading	Faculty and Student	CLO calculation for any student was done manually.	No implemented system was present to calculate and show the CLO in graph or any kind of chart.	Building a system which can take the required data and return a calculated CLO of the given grade
Data entry in a bulk	Faculty and Student	Entry for the calculation of the CLO cannot be given in a bulk. Like the csv file can't be uploaded wholly.	There is no such system where the csv file can be uploaded and processed.	An option in the CLO calculation system should be kept where the csv file can be uploaded.
Storing backup data	Faculty	1)There is no backup data system where it can be seen that which data was inserted by which faculty. 2)There is no time column where the time of data entry should be recorded during the entry.	No such table was created for the backup of the entry record.	A new table should be created where all the records are present which can be viewed by the admin in case of any requirement.

RICH PICTURE (TO BE SYSTEM)



SIX ELEMENTS (TO BE SYSTEM)

Process	Human	Non computing Hardware	Computing Hardware	Software	Database	Network and Commu-nication
Preparing storing and giving Course Outline	**Faculty:** 1) Signs into System using their ID and Password. 2) Select Create Course Outline Tab. 3) Select From the options that they wish to add in their course outline. 4) Press the Create button. 5) Store course outline into system. **Students:** 1) Signs into System using their ID and Password. 2) Select Course 3) View/Download Course Outline from System.		**Computer/ Laptop** 1) Used to Sign into SPMS 4.0 **Printer** 1) Used to print hard copy of course outlines if required.	**SPMS 4.0** 1)Used to store Data into the database	**SPMS 4.0** Data base 1) All valid data are stored here which can be updated by SPMS 4.0 admins.	1)Used to Sign into SPMS 4.0
Add Questions to the question bank and grading the answer script	**Faculty:** 1) Signs into System using their ID and Password. 2) Select course and choose section's that has to solve the question. 3) Input the question in the question bank. 4) Press the Assign Button. 5) Grade the answers submitted by the students **Student:**		**Computer/ Laptop** 1) Used to Sign into SPMS 4.0 **Printer** 1) Used to print the grades gotten by the whole section	**SPMS 4.0** 1) Used to store Data into the database or generate e result graph using data from the database.	**SPMS 4.0** Database 1) All valid data are stored here which can be updated by SPMS 4.0 admins.	**Internet** 1) Used to Sign into SPMS 4.0
	1) Signs into System using their ID and Password. 2) Answer the question assigned by the faculty in the answer bank 3) Press the Submit button 4) Check grade in SPMS4.0 after faculty is done checking					
Course based student performance trend according to GPA	**Department Head:** 1) Signs into System using their ID and Password. 2) Input the time period and course ID to be viewed. 3) View student progress through a graph made after analysis and the GPA earned by maximum/minimum /Average students. **Faculty:** 1) Signs into system using their ID and Password. 2) Search for the course that they are teaching using course ID and time period and view the progress of that students of that course. **Student:**		**Computer/ Laptop** 1) Used to Sign into SPMS 4.0. **Printer** 1) Used to print hard copy of the progress of current semester's students and compare with the progress of the previous semester's students who did that course.	**SPMS 4. 0** 1)Used to store student Data into the database or generate perform -- once analysis graph using data from the database.	**SPMS 4.0 Database** 1) All valid data are stored here which can be updated by SPMS 4.0 admins.	**Internet** 1) Used to Sign into SPMS 4.0
	1) Signs into System using their ID and Password. 2) Search for the course using course ID and View their progress of that course and the GPA they earned. **Dean/VC:** 1) Signs into system using their ID and Password. 2) Search for the course using course ID and time period and View the progress of the students of that course					
Faculty based student performance according to GPA	**Faculty:** 1) Signs into system using their ID and Password. 2) View the Progress of the students who are being taught by them. **Department Head:** 1) Signs into system using their ID and Password. 2) Search for a faculty to be assessed using the faculty's name. 3) View the Progress of the students who are being taught under that faculty basing on the GPA		**Computer/ Laptop** 1) Used to Sign into SPMS 4.0 **Printer** 1) Used to print hard copy of the progress of students taught by a faculty	**SPMS 4. 0** 1) Used to store student Data into the database or generate perform - ance analysis graph using data from the database.	**SPMS 4.0 Database** 1) All valid data are stored here which can be updated by SPMS 4.0 admins.	**Internet** 1) Used to Sign into SPMS 4.0

SIX ELEMENTS (TO BE SYSTEM) CONTINUED

	earned by the students. **Dean/VC:** 1) Signs into system using their ID and Password. 2) Search for a faculty to be assessed using the faculty's name and Department ID. 3) View the Progress of the students who are being taught under that faculty basing on the GPA earned by the students.					
Course wise PLO achievement of a student	**VC/ Dean:** 1) Signs into system using their ID and Password. 2) Select PLO achievement Tab and search using Course ID 3) View PLOs achieved by the student. **Department Head:** 1) Signs into system using their ID and Password. 2) Select PLO achievement Tab and search using Course ID 3) View PLOs achieved by the students. **Faculty:**		**Computer/ Laptop** 1) Used to Sign into SPMS 4.0 **Printer** 1) Used to print hard copy of a report of students who completed most the PLO achievements if needed.	**SPMS 4. 0** 1) Used to store Data and generate PLO automat-cally based on the CO provide d.	**SPMS 4.0 Database** 1) All valid data are stored here which can be updated by SPMS 4.0 admins.	Internet 1) Used to Sign into SPMS 4.0

	1) Signs into system using their ID and Password. 2) Select PLO achievement Tab and search using Course ID 3) View PLOs achieved by the students in a course. **Student:** 1) Signs into system using their ID and Password. 2) View PLOs they have achieved so far and how many they need to achieve to complete the course.					

Student performance trend Under VC/Dean/ Head of Department	**Dean:** 1) Signs into system using their ID and Password. 2) Search for Department Head to be checked using their Name and Department ID. 3) View student progress under them or them. **VC:** 1) Signs into system using their ID and Password. 2) Search for a Dean or Department Head to be checked using their Name and either School ID or Department ID. 3) View student progress under them. **Department Head:** 1) Signs into system using their ID and Password. 2) View student progress under them		**Computer/ Laptop** 1) Used to Sign into SPMS 4.0 **Printer** 1) Used to print the hard copy of the progress report if needed	**SPMS 4. 0** 1) Used to store Data into the database or generate perform ance analysis graph using data from the database.	**SPMS 4.0** Database 1) All valid data are stored here which can be updated by SPMS 4.0 admins.	**Internet** 1) Used to Sign into SPMS 4.0

Course, Program, department, school CLO-PLO statistics	**Dean/VC:** 1) Signs into system using their ID and Password. 2) View CLO-PLO mapped statistics achieved by students. **Department Head:** 1) Signs into system using their ID and Password. 2) View CLO-PLO mapped statistics achieved by students. **Faculty:** 1) Signs into system using their ID and Password. 2) View CLO-PLO mapped statistics achieved by students. **Student:** 1) Signs into system using their ID and Password. 2) View CLO-PLO mapped statistics achieved by them and other students.		**Computer/ Laptop** 1) Used to Sign into SPMS 4.0 **Printer** 1) Used to print the hard copy of the progress report if needed	**SPMS 4. 0** 1) Used to store Data into the database and generate CLO-PLO statistic al data or graphs.	**SPMS 4.0 Database** 1) All valid data are stored here which can be updated by SPMS 4.0 admins.	**Internet** 1) Used to Sign into SPMS 4.0
Course, student, department school wise expected vs achieved PLO	**Dean/VC:** 1) Sign into the system using ID and Password. 2) View the achieved PLO of the students during time entered that has been		**Computer/ Laptop** 1) Used to Sign into SPMS 4.0	**SPMS 4. 0** 1) Used to store Data into the database or generate perform	**SPMS 4.0 Database** 1) All valid data are stored here which can be updated	**Internet** 1) Used to Sign into SPMS 4.0

SIX ELEMENTS (TO BE SYSTEM) CONTINUED

	inputted and comparison between expected and achieved. **Department Head:** 1) Sign into the system using ID and Password. 2) View the achieved PLO of the students during time entered that has been inputted and comparison between expected and achieved. **Faculty:** 1) Sign into the system using ID and Password. 2) View the achieved PLO of the students during time entered that has been inputted and comparison between expected and achieved. **Student:** 1) Sign into the system using ID and Password. 2) View the achieved PLO of the students during time entered that has been inputted and comparison between expected and achieved.		**Printer** 1) Used to print the hard copy of both the previous and current semester's achieved PLO to compare.	ance analysis graph using data from the database	by SPMS 4.0 admins	

Department average of total PLO achieved and attempted students	**Dean/VC:** 1) Sign into the system using ID and Password. 2) Enter the time period of the semester wished to be viewed. 3) View the departmental average of total PLO achieved along with the number of students who attempted. **Department Head:** 1) Sign into the system using ID and Password. 2) Enter the time period of the semester wished to be viewed. 3) View the departmental average of total PLO achieved along with the number of students who attempted. **Faculty:** 1) Sign into the system using ID and Password. 2) View the total departmental average of the PLO achieved by the students. **Student:**		**Computer/ Laptop** 1) Used to Sign into SPMS 4.0 **Printer** 1) Used to print the hard copy of PLO reports	**SPMS 4. 0** 1) Used to store Data into the database or generate perform ance analysis graph using data from the database.	**SPMS 4.0 Database** 1) All valid data are stored here which can be updated by SPMS 4.0 admins	**Internet** 1) Used to Sign into SPMS 4.0

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	1) Sign into the system using ID and Password. 2) View the total departmental average of the PLO achieved by the students					
Student Enrollment Statistics VC-wise, Dean-wise, Department Head-wise.	**VC** 1) Sign into the system using ID and Password. 2) Select Student Enrollment Statistics tab and select Year and Semester under that tab 3) View Student Enrollment Statistics of That Year and Semester. **Dean** 1) Sign into the system using ID and Password. 2) Select Student Enrollment Statistics tab and select Year and Semester under that tab 3) View Student Enrollment Statistics of That Year and Semester. **Department Head** 1) Sign into the system using ID and Password. 2) Select Student Enrollment Statistics tab and select Year and Semester under that tab 3) View Student Enrollment Statistics of That Year and Semester		**Computer/ Laptop** 1) Used to Sign into SPMS 4.0 **Printer** 1) Used to print the hard copy of Student Enrollment Statistics if Needed.	**SPMS 4. 0** 1) Used to store Data into the database and generate Student Enrollment Statistics graphs	**SPMS 4.0 Database** 1) All valid data are stored here which can be updated by SPMS 4.0 admins	**Internet** 1) Used to Sign into SPMS 4.0

	and Semester under that tab 3) View Student Enrollment Statistics of That Year and Semester					
	Student: Enters 1) ID 2) Course ID 3) Section 4) Semester 5) Year		**Computer/ Laptop** Used to Sign into SPMS 4.0 **Printer** Used to print the hard copy of Student Enrollment Statistics if Needed.	**SPMS 4.0** Used to store Data into the database and generate Student Enrollment Statistics graphs	**SPMS 4.0 Database** All valid data are stored here which can be updated by SPMS 4.0 admins	**Internet** Used to Sign into SPMS 4.0

CHAPTER-3 LOGICAL SYSTEM DESIGN

A. BUSINESS RULES – SPMS 4.0:

1. A Student must have one department. A STUDENT has StudentID, FirstName, LastName, dateOfBirth, gender, email, phone, address, departmentID, programID, enrollmentYear, enrollmentSemester, password. A department must have one or many Students.

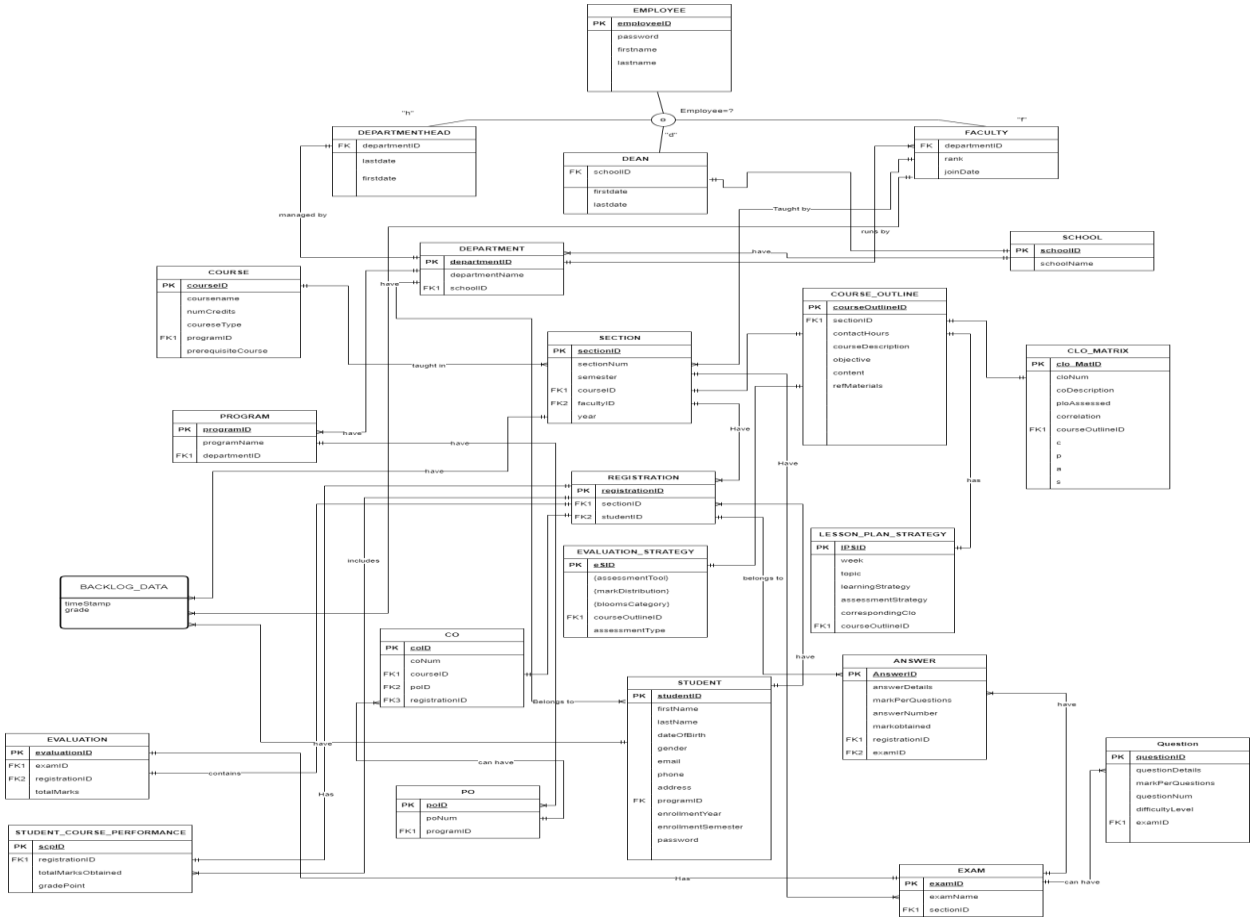
2. A Student may perform many registrations. A REGISTRATION includes RegistrationID, sectionID, studentID. A Registration must be performed by at least one student.

3. A section mandatorily has many registrations. A registration has at least one section. A section includes sectionID, sectionNum, courseID, facultyID, year.

4. A registration may belong to many EVALUATIONS. An evaluation mandatorily belongs to one registration. An EVALUATION contains evaluationID, examID, registrationID, totalMarks.

5. A CO must map with one PO. A PO's must map with one or many CO's. PO includes poID, poNum, programID.

EERD OF THE SPMS 4.0



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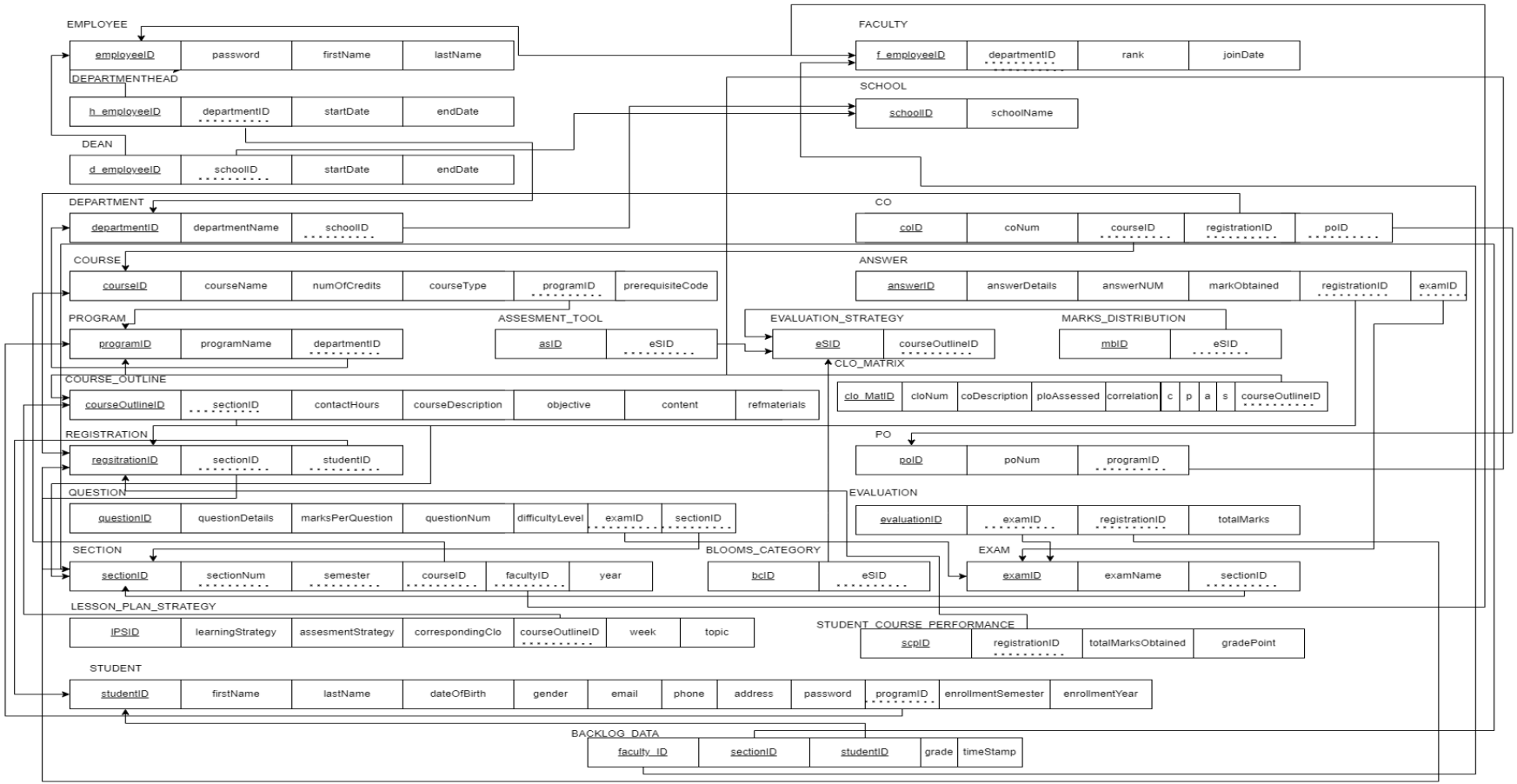
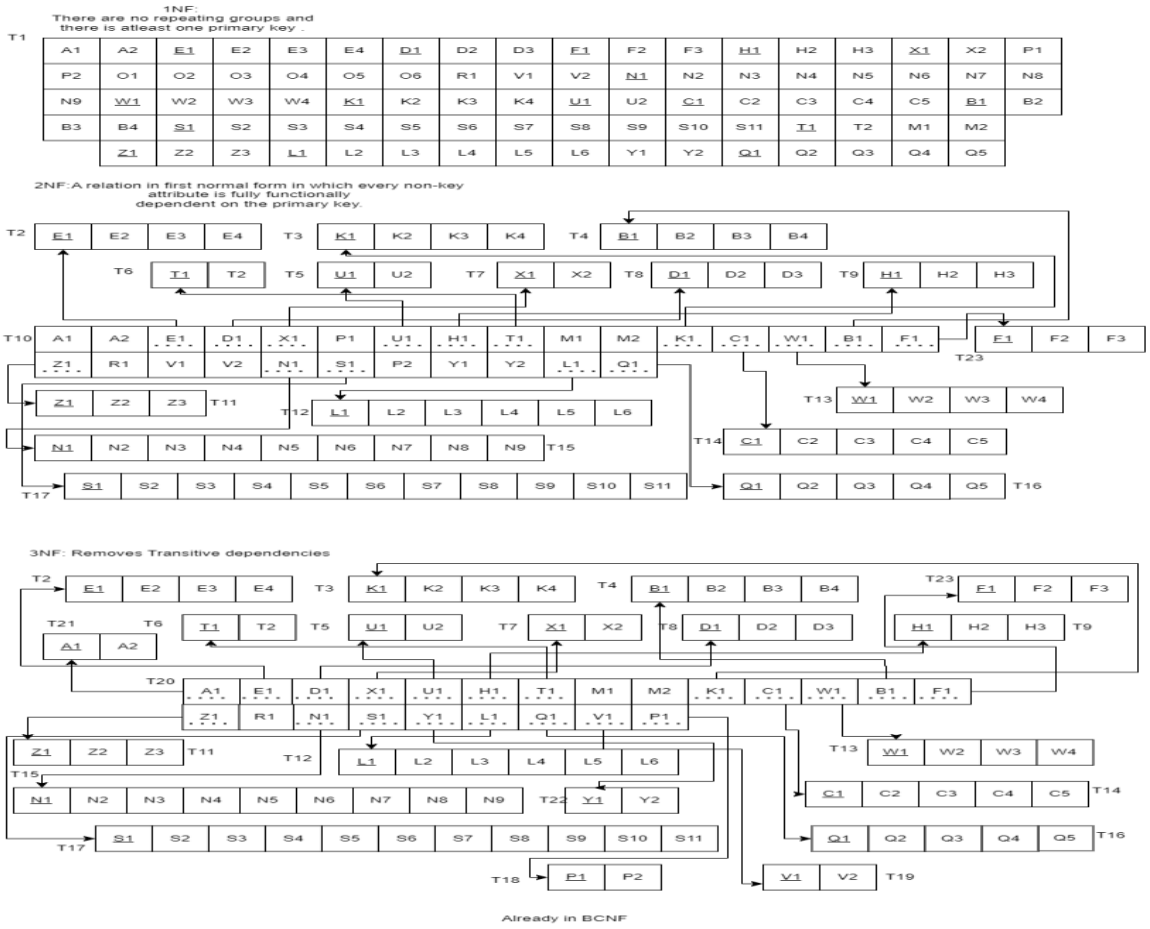


NORMALIZATION OF SPMS 4.0



DATA DICTIONARY

DATA DICTIONARY:

VC_T

Name		Data Type	Size	Remark
v_employeeID		INTEGER	11	This is the foreign key from the Employee table. E.g: "4250"
startDate		DATE		This is starting date for the VC. E.g: "01-03-2020"
endDate		DATE		This is the date VC retire from his post. E.g: "01-03-2024"

STUDENT_T

Name	Data Type	Size	Remark
studentID	INTEGER	11	This is the primary key for the Student table. E.g: "1921834".
firstName	VARCHAR	30	This is the first name of the student. E.g: "Rakibul".
lastName	VARCHAR	30	This is the last name of the student. E.g: "Hasan".
dateOfBirth	DATE		This is the birth date of the student. E.g: "2112-1996".
gender	VARCHAR	6	This is the gender of the student. E.g: "Female".
email	VARCHAR	30	This is the email of the student. E.g: "1921834@iub.edu.bd"
phone	VARCHAR	11	This is the phone of the student. E.g: "01XXXXXXXXX".
address	VARCHAR	50	This is the address of the student. E.g: "House 1,Road 4,Block D, Bashundhara RA
departmentID	VARCHAR	3	This is the foreign key from the Department table. E.g: "CSE"
programID	INTEGER	11	This is the foreign key from the Program table. E.g: "1"
enrollmentSemester	VARCHAR	10	This is the enrollment semester of the student.
enrollmentYear	VARCHAR	4	This is enrollment year of the student.

STUDENT_COURSE_PERFORMANCE_T

Name	Data Type	Size	Remark
scpID	INTEGER	11	This is the primary key for this table
registrationID	INTEGER	11	This is the foreign key from registration table
totalMarksObtained	INTEGER	11	This is the total marks obtained by the student

DATA DICTIONARY (CONTINUED)

gradePoint	FLOAT		This is the grade point achieved by the student

SECTION_T

Name	Data Type	Size	Remark
sectionID	INTEGER	11	This is the Primary Key for Section. E.g: "1"
sectionNum	INTEGER	11	This is the section number. E.g: "1"
semester	VARCHAR	6	This is the semester of the section. E.g: "Summer"
courseID	VARCHAR	6	This is the foreign key from the Course table. E.g: "CSE101"
facultyID	INTEGER	11	This is the foreign key from Faculty table. E.g: "1801"
year	YEAR	4	This is the year this section of this course was taken by this specific faculty

SCHOOL_T

Name	Data Type	Size	Remark
schoolID	VARCHAR	5	This is the primary key of School. E.g: "SETS"
schoolName	VARCHAR	50	This is the name of the School. E.g: "School of Engineering,
			Technology & Science".

REGISTRATION_T

Name	Data Type	Size	Remark
registrationID	INTEGER	11	This is the Primary Key for Registration. E.g: "0101010101"
sectionID	INTEGER	11	This is the foreign key from section table
studentID	INTEGER	11	This is the foreign key from student table

QUESTION_T

Name	Data Type	Size	Remark
questionID	INTEGER	11	This is the primary key of this table
questionDetails	MEDIUMTEXT		This is the question
markPerQuestion	INTEGER	11	This is the mark each question contains
questionNum	INTEGER	11	This is the number of the question
difficultyLevel	INTEGER	11	This is the difficulty level of the question
examID	VARCHAR	20	This is the foreign key from exam table
courseID	VARCHAR	6	This is the foreign key from course table

DATA DICTIONARY (CONTINUED)

coNum	INTEGER	11	This is the CO number of the question

PROGRAM_T

Name	Data Type	Size	Remark
programID	INTEGER	11	This is the primary key for a program. E.g: "1"
programName	VARCHAR	50	This is the name of the program. E.g: "Bachelor of Science"
departmentID	VARCHAR	3	This is the foreign key from the Department table.
			E.g: "CSE"

PO_T

Name	Data Type	Size	Remark
poID	VARCHAR	5	This is the primary key for Program Outcome. E.g: "PO1"
poNum	INTEGER	11	This is the PO number. E.g: "1"
programID	INTEGER	11	This is a foreign key from Program table. E.g: "1"

PLO_T

Name	Data Type	Size	Remark
ploID	INTEGER	11	This is the primary key for Program Learning Outcome. E.g: "PLO1"
ploNum	INTEGER	11	This is the PLO number. E.g: "1"
programID	INTEGER	11	This is a foreign key from Program table. E.g: "1"

LESSON_PLAN_STRATEGY_T

Name	Data Type	Size	Remark
lpsID	INTEGER	11	This is the primary key of the table
week	INTEGER	11	This is the week number
topic	MEDIUMTEXT		This is the topic name
learningStrategy	MEDIUMTEXT		This is the lesson plan strategy of that topic
assessmentStrategy	VARCHAR	10	This is the assessment strategy of that topic
courseOutlineID	INTEGER	11	This is the foreign key from course outline table

FACULTY_T

Name	Data Type	Size	Remark
f_employeeID	INTEGER	11	This is the foreign key from the Employee table. E.g: "4250"
departmentID	VARCHAR	3	This is the DepartmentID of the department faculty belongs to. E.g: "CSE"

DATA DICTIONARY (CONTINUED)

rank	VARCHAR	30	This is the rank of the faculty. E.g: "Assistant Professor"
joinDate	DATE		This is starting date. E.g: "01-03-2020"

EXAM_T

Name	Data Type	Size	Remark
examID	INTEGER	11	This is the primary key for this table
examName	VARCHAR	30	This is the name of the exam
sectionID	INTEGER	11	This is the foreign key from exam table

EVALUATION_T

Name	Data Type	Size	Remark
evaluationID	INTEGER	11	This is the primary key for this table
examID	VARCHAR	20	This is the foreign key from exam table
registrationID	INTEGER	11	This is the foreign key from registration table
totalMarks	INTEGER	11	This is the total marks achieved by the student in a specific exam

EVALUATION_STRATEGY_T

Name	Data Type	Size	Remark
eSID	INTEGER	11	This is the primary key for this table
courseOutlineID	INTEGER	11	This is the foreign key from course outline table

ASSESSMENT_TOOL_T

Name	Data Type	Size	Remark
asID	INTEGER	11	This is the primary key for this table
eSID	INTEGER	11	This is the foreign key from evaluation strategy table

MARK_DISTRIBUTION_T

Name	Data Type	Size	Remark
mdID	INTEGER	11	This is the primary key for this table
eSID	INTEGER	11	This is the foreign key from evaluation strategy table

BLOOMS_CATEGORY_T

Name	Data Type	Size	Remark
bcID	INTEGER	11	This is the primary key for this table
eSID	INTEGER	11	This is the foreign key from evaluation strategy table

EMPLOYEE_T

Name	Data Type	Size	Remark

DATA DICTIONARY (CONTINUED)

employeeID	INTEGER	11	This is the primary key for Employee table. E.g: "1801"
password	VARCHAR	10	This is the password of the employee
firstName	VARCHAR	50	This is the last name of the faculty. E.g: "Ahmed"
lastName	VARCHAR	50	This is the last name of the faculty. E.g: "Ahmed"

DEPARTMENTHEAD_T

Name	Data Type	Size	Remark
h_employeeID	INTEGER	11	This is the foreign key from the Employee table.
			E.g: "4250"
departmentID	VARCHAR	3	This is the DepartmentID of the department HEAD manages. E.g: "CSE"
startDate	DATE		This is starting date. E.g: "01-03-2020"
endDate	DATE		This is the date HEAD retire from his post. E.g: "0103-2024"

DEPARTMENT_T

Name	Data Type	Size	Remark
departmentID	VARCHAR	3	This is the primary key for the Department table. E.g: "CSE"
departmentName	VARCHAR	50	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".

DEAN_T

Name	Data Type	Size	Remark
d_employeeID	INTEGER	11	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		This is starting date. E.g: "01-03-2020"
endDate	DATE		This is the date DEAN retire from his post. E.g: "0103-2024"

COURSE_T

Name	Data Type	Size	Remark

DATA DICTIONARY (CONTINUED)

courseID	VARCHAR	6	This is the Primary Key for the Course. E.g: "CSE203"
courseName	VARCHAR	40	This is the name of the Course. E.g: "Discreet Mathematics"
numOfCredits	INTEGER	11	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	11	This is the foreign key from the program table. E.g: "1"

COURSE_OUTLINE_T

Name	Data Type	Size	Remark
courseOutlineID	INTEGER	11	This is the primary key for this table
sectionID	INTEGER	11	This is the foreign key from the section table
courseDescription	MEDIUMTEXT		This is the description of the course
objective	MEDIUMTEXT		This is the objective of the course
content	MEDIUMTEXT		This is the content of the course
refMaterials	MEDIUMTEXT		This is the reference material
courseTitle	VARCHAR	1000	This is the title of the course

prerequsiteCode	VARCHAR	6	This is the prerequisite course code
creditValue	INTEGER	11	This is the credit value of the course

CO_T

Name	Data Type	Size	Remark
coID	INTEGER	11	This is the primary key for the CO table. E.g: "CO1".
coNum	INTEGER	11	This is the CO number. E.g: 1,2 etc.
courseID	VARCHAR	6	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"
poID	VARCHAR	6	This is the foreign key from the PLO table. E.g: "PO1"

CLO_MATRIX_T

Name	Data Type	Size	Remark
clo_MatID	INTEGER	11	This is the primary key for this table
cloNum	INTEGER	11	This is the clo number
coDescription	MEDIUMTEXT		This is the co description
ploAssessed	VARCHAR	10	This is the name of the plo assessed
correlation	INTEGER	11	This is the correlation value or number

DATA DICTIONARY (CONTINUED)

courseOutlineID	INTEGER	11	This is the foreign key from the course outline table
c	INTEGER	11	This is the bloom's category level
p	INTEGER	11	This is the bloom's category level
a	INTEGER	11	This is the bloom's category level
s	INTEGER	11	This is the bloom's category level

ANSWER_T

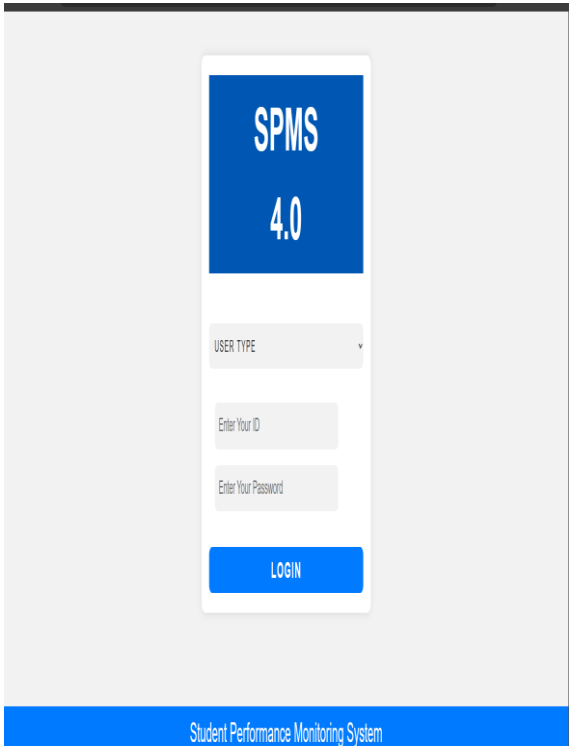
Name	Data Type	Size	Remark
answerID	INTEGER	11	This is the primary key for this table
answerDetails	MEDIUMTEXT		This is the answer details
answerNum	INTEGER	11	This is the number of the answer
markObtained	INTEGER	11	This is the mark obtained by the student for each answer
registrationID	INTEGER	11	This is the foreign key from registration table
examID	INTEGER	11	This is the foreign key from the exam table

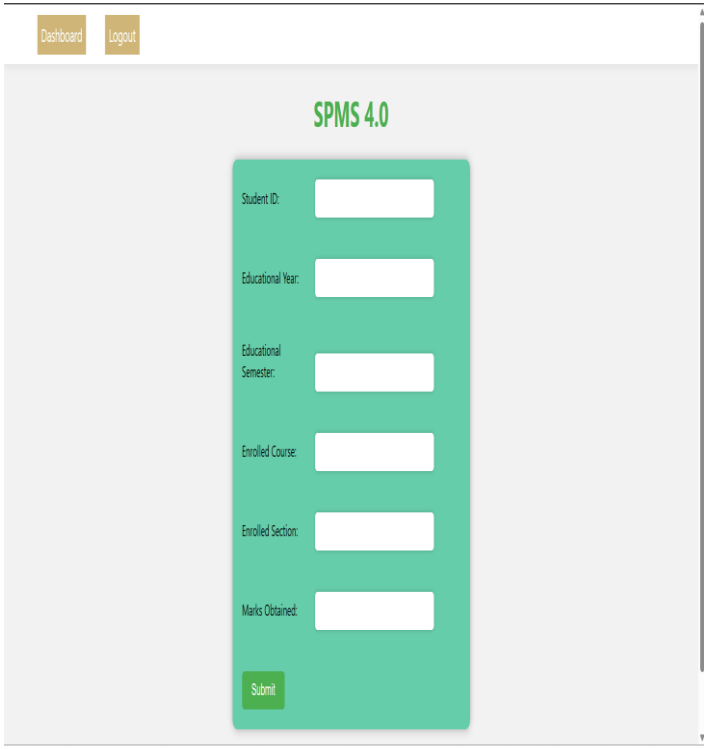
Backlog_data_t

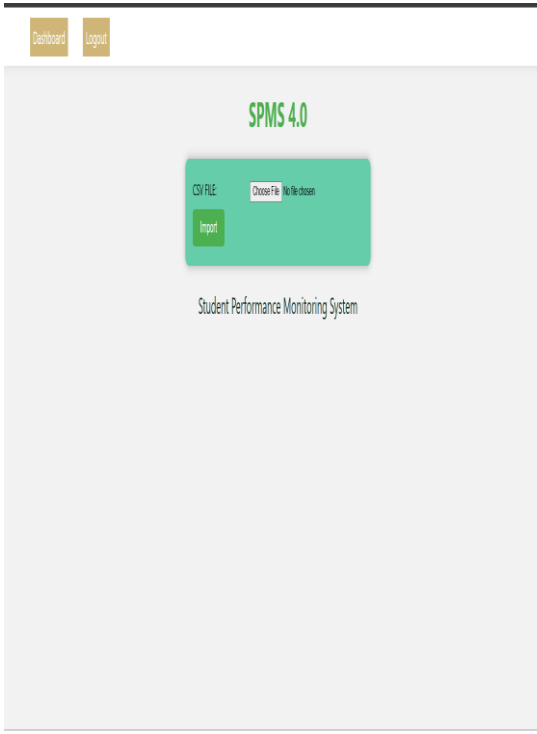
backlogID	INTEGER	11	This is the primary key of backlog_data_t, which is being auto incremented
sectionNum	VARCHAR		This is the section num where students enroll
studentID	INTEGER	11	This is the student ID and it is foreign key, which comes from student table
semester	VARCHAR	6	This is the semester like spring, summer , autumn
courseID	VARCHAR	6	This is the foreign key , comes from course table
facultyID	INTEGER	11	This is the foreign key which comes from the faculty table, it indicates the faculty
year	YEAR	4	This is the year when the students enrolled in the university
totalMarksObtained	INTEGER	11	This the mark of student , which is being inputed by faculty in this table
time_stamp	TIME_STAMP		This is time stamp; it is being auto stored in the system. When faculty insert the data in the system, it is storing the time and date of that moment in the system

End of document ■

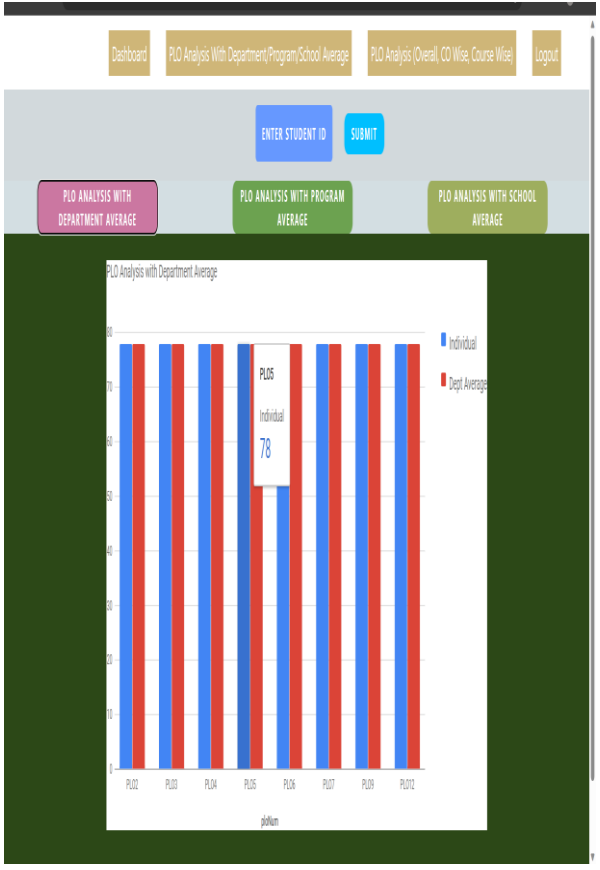
INPUT FORMS

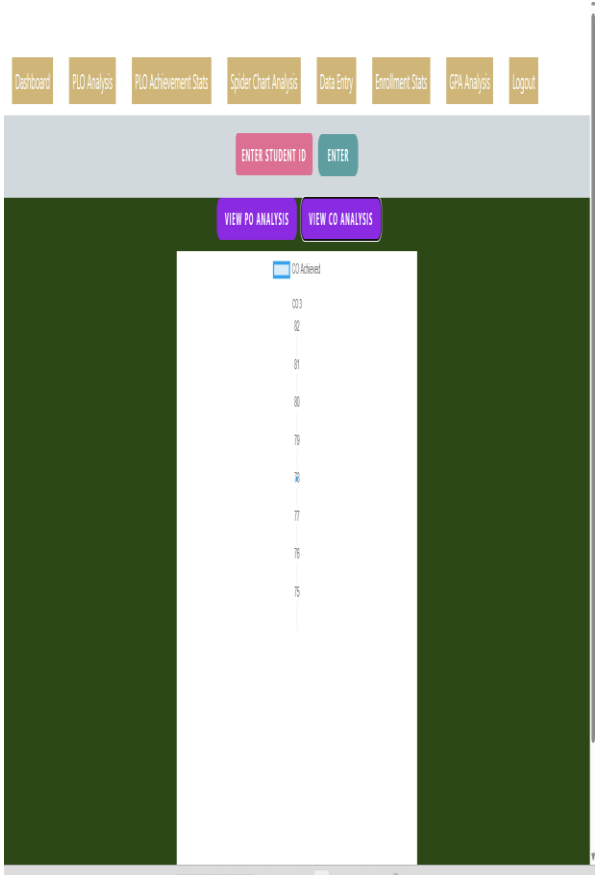

SPMS
4.0
USER TYPE
Enter Your ID
Enter Your Password
LOGIN
Student Performance Monitoring System

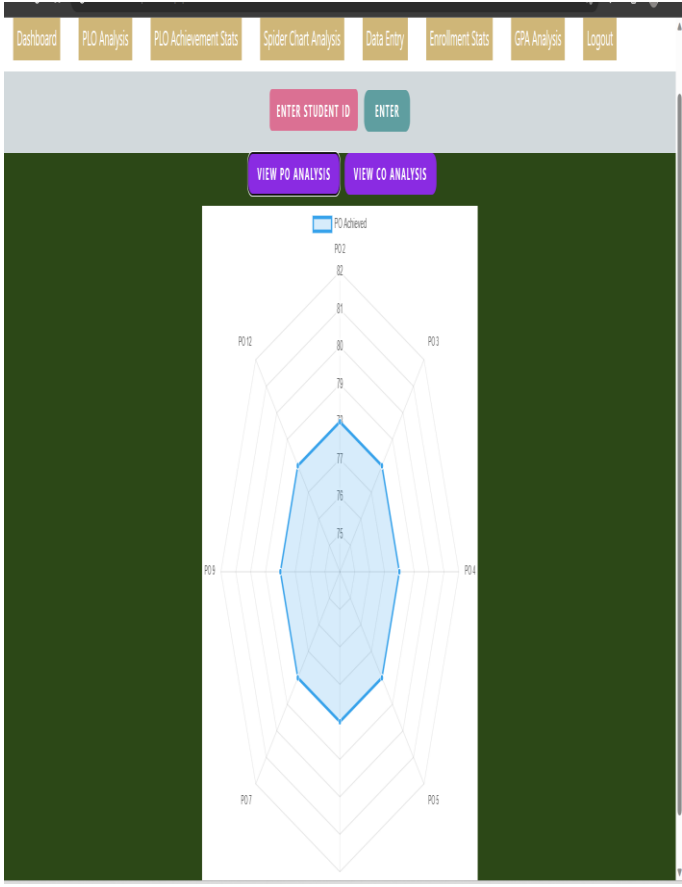

Dashboard
Logout
SPMS 4.0
Student ID:
Educational Year:
Educational Semester:
Enrolled Course:
Enrolled Section:
Marks Obtained:
Submit


Dashboard
Logout
SPMS 4.0
CSV FILE:
Choose File
No file chosen
Import
Student Performance Monitoring System

OUTPUT CHARTS








THANK YOU