TEAM NOOBSQUAD



PROJECT DATABASE MANAGEMENT SYSTEM



TEAM MEMBERS

Samiul Islam Sourav 2031109

2030063

Roshni Parvin

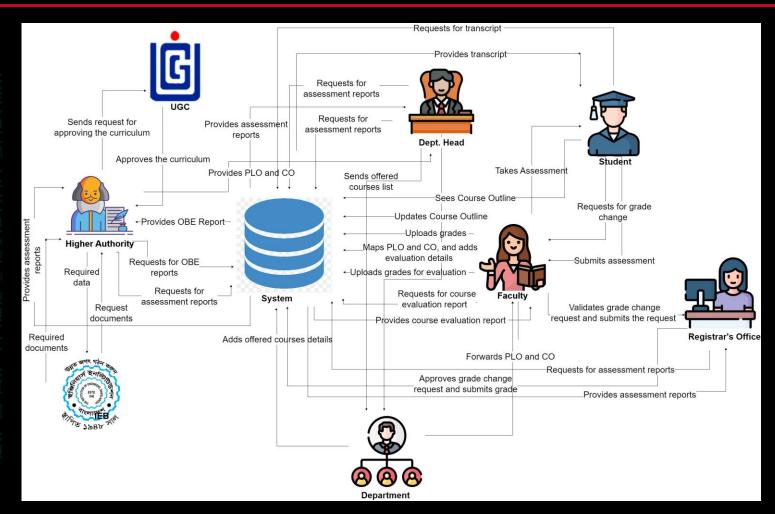
Md. Ezaz Ahamed 2021757

2031091 Md Tasin Rahman

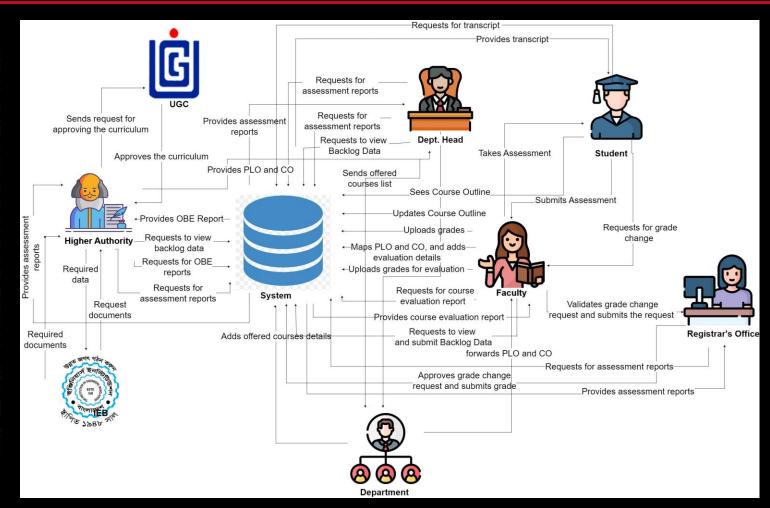
Hasan Imam

2031121

2031254 Toufikul Islam Eyasin



Process Name	Stake Holder	Concerns	Analysis (Reason of	Proposed Solution
		(Problems)	the problem)	
Student Evaluation	Faculty:	1.The Course Outcome (CO)	The Program Learning Outcome	The CO should also be sent to the
		is missing in the evaluation.	(PLO) and Course Learning	faculties from higher authorities to
			Outcome (CO) are related which	the faculties. Then the CO of the
		2.The achievements of	is why often they are confused	course should be mapped. Then the
	Student:	students in courses cannot be	with each other. But the CO are a	PLO should be analyzed using the
		measured accurately.	part of the PLO which needs to	COs. Then the final grade should be
			be identified separately to	analyzed.
			properly evaluate the students.	
Grade Submission	Faculty:	1.Here, the faculty can only	The reason of the problem can be	The new project can be developed
		input the grades and details of	that this method has been	which will use a form to take the
		the student manually.	preferred traditionally by the	details of the student and grades
			faculties and authorities.	which will directly be exported by
				the project in database.
Backlog Data	Faculty:	1.In the current system, there	Mostly, in the earlier system the	In the new project, the faculty can
		is no existence of the backlog	details were stored in physical	manually add the data which will
		data.	storage. Along with that, the	be stored in the database for later
			outcomes were not evaluated.	use. Also the csv file can be used to
		2. The lack of database makes	Also, the faculties manually	import the information. The
		it tough to manage the data of	added the information of the	backlog data will be useful to store
	Higher Authority:	the students.	students.	the information for later use. This
				will also help to create the
				evaluation.



SIX ELEMENT ANALYSIS - proposed system

SPMS 4.0	NoobSquad	SPMS 4.0	NoobSqua	uad SPMS 4.0			NoobS	quad
password to log	d to a. It is into used to sign to spMS automatic all of ats of ats of ats of the course outline given.	a. Enters their ID and password to log in to the system. b. Click the CO accomplishme nt tab and enter the course ID. c. Examine the COs that the students met. Faculty: a. Enters their ID and password to log in to the system. b. Click the CO accomplishme nt tab and enter the course ID. c. Check out the COs that the students in	nts if needed.	Course, Prograin, department, school CLO. PLO statistics	a. Enters their ID and password to log in to the system. b. Check out the CO-PLO mapping student achievement figures	Computer/ SPMS Laptop: 4.0: a. Used as a Sign-In for create SPMS 4.0 graphs o statistical analysis using dat from the database or to saw the hardcopy.	database: o a. All current if information is kept here and can be a updated by administrat ors from the database.	Used to sign to SPMS 4.0.

SIX ELEMENT ANALYSIS - proposed system

NoobSquad

SPMS 4.0

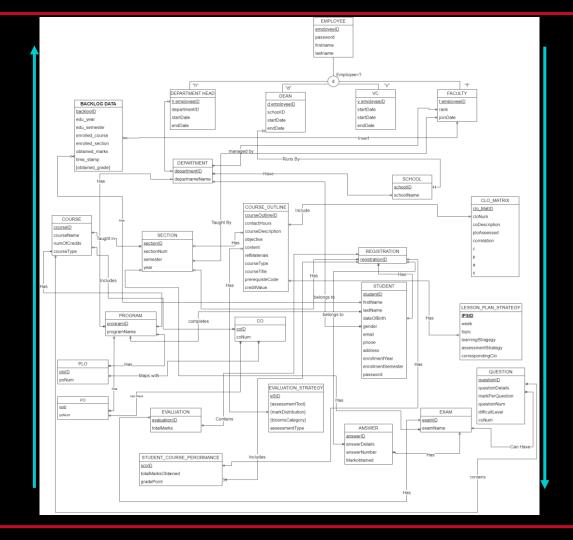
SPMS 4.0

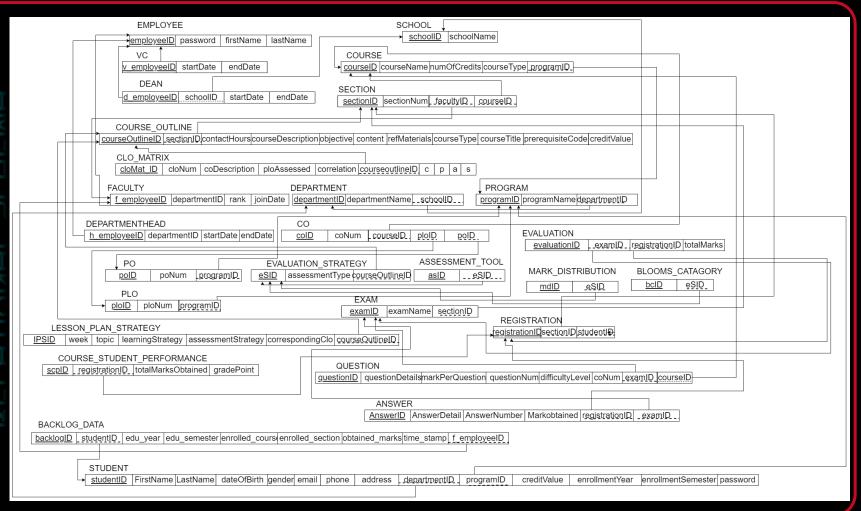
SPMS 4.0				NoobS	quad
Course,	b. Examine the CO-PLO mapping statistics that they and other students achieved. Dean/VC:	Computer/	SPMS	SPMS 4.0	Internet
student, department	a. Log in to the	Laptops:	4.0:	database:	Used to
school wise expected vs achieved PLO and CO	system with your ID and password. b. Compare the expected and realized PLOs and COs for the students for the time that has been entered. Department Head: a. Log in to the system with your ID and password.	a. Used to sign into SPMS 4.0 Printer b. Used to print the attained PLO for the previous and current semesters on paper for comparison	a. Used to create graphs of statistical analysis using data from the database or to save student data in the database	current information is kept here and can be updated by administrat ors from the	sign to SPMS 4.0.
	b. Compare the expected and				

	and COs for the students for the time that has				
Department average of total PLO and CO achieved and attempted students	been entered. Dean/VC: a. Enter your ID to access the system and use your password. b. Choose the semester's desired viewing time range. c. See the overall PLO and CO average for the department as well as the number of students that attempted. Department Head:	Computer/ Laptops: a. Used to sign into SPMS 4.0 Printer b. Used to print the attained PLO and CO for the previous and current semesters on paper for comparison .	a. Used to create graphs of statistical analysis using data from the database or to save student data in the	current information is kept here and can be updated by administrat ors from the	Internet Used to sign to SPMS 4.0.
	a. Log in to the system using				

	a. Log in to the system with			
	your ID and password.			
	b. See the students' overall departmental average of PLO results.			
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	Computer/ Laptops: a. Used to sign into SPMS 4.0 Printer b. Used to print the attained statistics for the previous and current semesters on paper for comparison	 current information is kept here and can be updated by administrat ors from the	Used to sign to SPMS 4.0.

NoobSquad





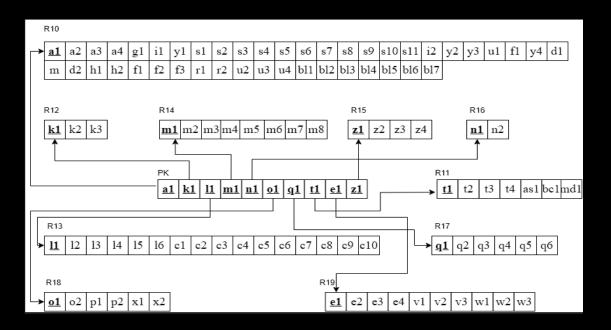
Funtional Dependency

employeeID →	firstName, lastName, password		scpID →	registrationID, totalMarksObtained, gradePoint, obtainedGrade
	firstName, lastName, dateOfBirth, gender, email, phone, address, departmentID,		clo_MatID →	cloNum, coDescription, ploAssessed, correlation, courseOutlineID, c, p, a, s
studentID →	programID, enrollmentSemester, enrollmentYear, password		ploID →	ploNum, programID
schoolID →	schoolName		coID →	coNum, courseID, ploID, poID
departmentID →	departmentName, schoolID		poID →	poNum, programID
programID →	programName, departmentID		v_employeeID →	startDate, endDate
f employeeID →	departmentID, rank, joinDate		d_employeeD →	schoolID, startDate, endDate
			asID →	eSID
h_employeeID →	departmentID. startDate, endDate		mdID →	eSID
courseID →	courseName, numOfCredits, courseType, programID		bcID →	eSID
sectionID →	sectionNum, semester, coursed, facultyID, year			edu_year
	sectionID, contactHours, courseDescription, objective, content, refMaterials,			edu_semester
courseOutlineID →	courseType, courseTitle, prerequsiteCode,			enrolled_course
	week, topic, learningStrategy,		haddadD A	enrolled_section
ipsID →	assessmentStrategy, correspondingClo, courseOutlineID		backlogID →	obtained_marks
registrationID →	sectionID, studentID			time_stamp
examID →	examName, sectionID			facultyID
questionID →	questionDetails, markPerQuestion, questionNum, difficultyLevel, examID,			studentID
1	coursed, coNum			backlogID
answerID →	answerDetails, answerNum, markObtained, registrationID, examID		backlog_courseID →	courseID
eSID →	assessmentTool, markDistribution, bloomsCategory, courseOutlineID		backlog sectionID →	backlogID
evaluationID →	evaluationID → examID, registrationID, totalMarks			sectionID

NORMALIZATION

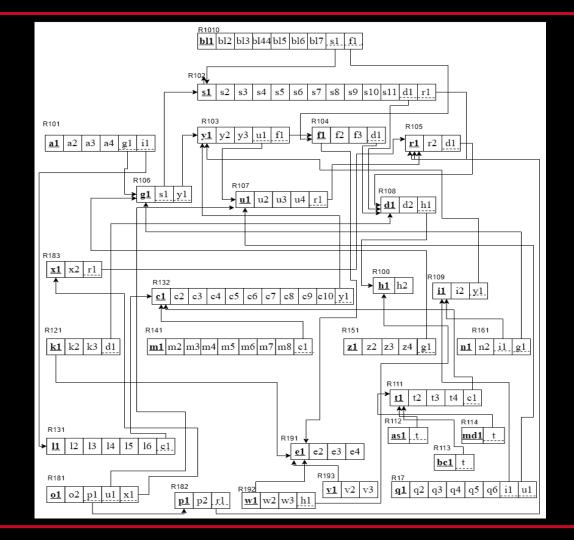
F	₹1																										
	<u>a1</u>	<u>k1</u>	<u>l1</u>	<u>m1</u>	<u>n1</u>	<u>o1</u>	<u>q1</u>	<u>t1</u>	<u>e1</u>	<u>z1</u>	a2	a3	c1	c2	c3	c4	c5	с6	c7	с8	с9	c10	d1	d2	e2	e3	e4
- 1				_																							n2
	o2	р1	p2	q2	q3	q4	q5	q6	r1	r2	s1	s2	s3	s4	s5	s6	s7	s8	s9	s10	s11	t2	t3	t4	u1	u2	u3
	u4	v1	v2	v3	w1	w2	w3	x1	x2	y1	y2	у3	y4	z2	z3	z4	bl1	bl2	bl3	bl4	bl5	bl6	bl7				

PNE:



NORMALIZATION continued

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DATA DICTIONARY

V. DATA DICTIONARY

VC_T

Name	Data Type	Size	Remark
v_employeeID	INTEGER	7	This is the foreign key fromthe Employee table. E.g: "4250"
startDate	DATE		This is starting date for the VC.E.g: "01- 03- 2020"
endDate	DATE		This is the dateVC retire from his post. E.g: "01-03-2024"

STUDENT_T

Name	Data Type	Size	Remark
studentID	INTEGER	7	This is the primary keyfor the Student table. E.g: "2030063".
firstName	VARCHAR	30	This is the first name of the student. E.g: "Roshni".

lastName	VARCHAR	30	This is the last name of the student. E.g: "Parvin".
dateOfBirth	DATE		This is the birth date of the student. E.g: "30-11-1999".
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: "2031254@iub.edu.bd"
phone	VARCHAR	11	This is the phone of the student. E.g: "01XXXXXXXX".
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	7	This is the foreign key from the Program table. E.g: "1"

enrollmentSemester	VARCHAR	10	This is the enrollment semester of thestudent.
enrollmentYear	VARCHAR	4	This is enrollment year of the student.

STUDENT_COURSE_PERFORMANCE_T

Name	Data Type	Size	Remark
			This is the
scpID	INTEGER	7	primarykey for
			this table
			This is the foreign
registrationID	INTEGER	7	key from
			_
			registration table
			This is the total
totalMarksObtained	INTEGER	7	marks obtained by
			the student
			This is the grade
gradePoint	FLOAT		point achieved by
grader our	LOAI		
			the student

DATA DICTIONARY - continued

Name	Data Type	Size	Remark
			This is the Primary
sectionID	INTEGER	7	Key for Section.
			E.g: "1"
			This is the section
sectionNum	INTEGER	11	number.
sectionNum	INTEGER	11	
			E.g: "1"
			This is the
			semester of the
semester	VARCHAR	6	section. E.g:
			"Summer"
			Summer
			This is the foreign
			key from the
courseID	VARCHAR	6	Course table.
			E.g: "CSE101"
			This is the foreign
			key from Faculty
facultyID	INTEGER	11	ne, nom racany
			table. E.g: "1801"
			This is the year this
			section of this
year	YEAR	4	course was taken
			by this specific
			faculty

SCHOOL T

Name	Data Type	Size	Remark
schoolID	VARCHAR	7	This is the primary key of School. E.g: "SETS"
schoolName	VARCHAR	50	This is the name of the School. E.g: "School ofEngineering, Technology & Science".

REGISTRATION_T

Name	Data Type	Size	Remark
registrationID	INTEGER	7	This is the Primary Key for Registration.E.g: "0101010101"
sectionID	INTEGER	11	This is the foreign key from section table
studentID	INTEGER	7	This is the foreign key from studenttable

QUESTION_T

Data Type	Size	Remark
		This is the
INTEGER	11	primarykey of this
		table
MEDIUMTEXT		This is the question
		This is the mark
INTEGER	11	each question
		contains
		This is the number
INTEGER	11	of the question
		of the question
		This is the
INTEGER	11	difficultylevel of
INTEGER		the question
		the question
		This is the foreign
VARCHAR	20	key from exam
		table
		This is the foreign
VARCHAR	6	key from course
		table
		This is the CO
INTEGER	11	number of the
		question
	INTEGER MEDIUMTEXT INTEGER INTEGER VARCHAR	INTEGER 11 MEDIUMTEXT INTEGER 11 INTEGER 11 VARCHAR 20 VARCHAR 6

DATA DICTIONARY - continued

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 primarykey for Program Outcome. E.g: "PO1"
poNum	INTEGER	11	This is the PO number. E.g: "1"

			This is a foreign key
programID	INTEGER	11	from Program table.
			E.g: "1"

PLO_T

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

LESSON_PLAN_STRATEGY_T

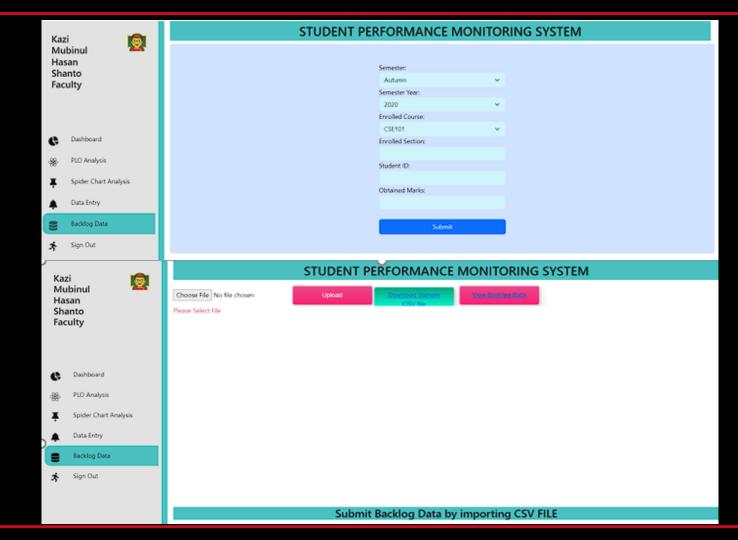
Name	Data Type	Size	Remark
lpsID	INTEGER	11	This is the primarykey of the table
week	INTEGER	11	This is the week number

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	7	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"





```
if (isset($_POST['submit'])) {
   $studentID = $_POST['studentID'];
   $semester = $ POST['semester'];
   $year = $_POST['year'];
   $courseID = $_POST['courseID'];
   $section = $_POST['section'];
   $marks = $_POST['marks'];
   $facultyID = $ SESSION['id'];
    $timeStamp = date("Y-m-d H:i:s");
    $backlogQuery="INSERT INTO backlog data t (studentID, edu year,
    edu semester, enrolled_course, enrolled_section, obtained_marks,
    facultyID, time_stamp) VALUES
    ('$studentID', '$year', '$semester', '$courseID',
    '$section', '$marks', '$facultyID', '$timeStamp')";
    $backlogTable = mysqli query($conn, $backlogQuery);
```

```
if (isset($ POST "upload"])) {
    if ($ FILES['fileToUpload']['name']) {
        $filename = explode(".", $_FILES['fileToUpload']['name']);
        if (end($filename) == "csv") {
            $handle = fopen($_FILES['fileToUpload']['tmp_name'], "r");
            $header = fgetcsv($handle);
            while ($data = fgetcsv($handle)) {
                $studentID = mysqli_real_escape_string($conn, $data[0]);
                $year = mysqli_real_escape_string($conn, $data[1]);
                $semester = mysqli real_escape_string($conn, $data[2]);
                $courseID = mysqli_real_escape_string($conn, $data[3]);
                $section = mysqli_real_escape_string($conn, $data[4]);
                $marks = mysqli_real_escape_string($conn, $data[5]);
                $facultyID = $ SESSION['id'];
                $time = date("Y-m-d H:i:s");
                $query = "
                    INSERT INTO backlog data t (studentID, edu year,
                    edu semester, enrolled course, enrolled section, obtained marks,
                    facultyID, time stamp) VALUES
                    ('$studentID', '$year', '$semester', '$courseID',
                    '$section', '$marks', '$facultyID', '$time')
                    ۳,
```

Mahady Hasan Department Head



PLO Analysis



PLO Achievement Stats



Spider Chart Analysis



Enrollment Stats



GPA Analysis



Backlog Data



Sign Out

STUDENT PERFORMANCE MONITORING SYSTEM

Student ID	Grade	Course	Section	Semester	Year	Faculty ID	Time Stamp
1531176	A-	CSE101	1	Autumn	2023	2483	2023-04-19 23:09:00
1811135	A	EEE131	2	Summer	2022	2483	2023-04-19 23:09:13
1711411	В-	ENG101	5	Autumn	2020	2259	2023-04-19 23:11:34
1711411	8-	ENG101	4	Summer	2022	2483	2023-04-19 23:32:07
1910876	В	CSE101	5	Summer	2022	2483	2023-04-19 23:32:33
1811135	Α	CSE101	7	Spring	2021	2483	2023-04-19 23:33:07
1531176	A-	EEE131	4	Spring	2021	2483	2023-04-20 01:45:42
1531176	C+	CSE101	5	Summer	2023	2483	2023-04-20 10:10:36
1531176	A	CSE101	1	Autumn	2020	2483	2023-04-20 10:19:45
1531176	A	EEE131	1	Autumn	2023	2483	2023-04-20 10:22:44
1531176	C+	CSE101	2	Autumn	2020	2483	2023-04-20 10:23:35
1611001	B+	CSE101	13	Spring	2021	2483	2023-04-20 21:47:36
1711409	B-	CSE101	13	Spring	2022	2483	2023-04-20 21:47:36
1711411	A-	CSE101	13	Spring	2021	2483	2023-04-20 21:47:36
1720718	A-	CSE101	13	Spring	2023	2483	2023-04-20 21:47:36
1722021	A-	CSE101	13	Spring	2023	2483	2023-04-20 21:47:36
1810471	В	CSE101	13	Spring	2022	2483	2023-04-20 21:47:36
1811135	C-	CSE101	13	Spring	2020	2483	2023-04-20 21:47:36
1821772	F	CSE101	13	Spring	2023	2483	2023-04-20 21:47:36
1822089	C+	CSE101	13	Spring	2021	2483	2023-04-20 21:47:36
1531176	A	CSE101	4	Autumn	2020	2483	2023-04-20 22:58:00

```
include 'connect.php';
$backlogData = "SELECT *
FROM backlog data t";
$result = mysqli query($conn, $backlogData);
while ($row = mysqli fetch assoc($result)) {
    $grade = "Z";
    if ($row['obtained marks'] >= 90 && $row['obtained marks'] <= 100)
        $grade = "A";
    elseif ($row['obtained marks'] >= 85 && $row['obtained marks'] <= 89)
        $grade = "A-";
    elseif ($row['obtained marks'] >= 80 && $row['obtained marks'] <= 84)
        $grade = "B+";
    elseif ($row['obtained marks'] >= 75 && $row['obtained marks'] <= 79)
        $grade = "B":
    elseif ($row['obtained marks'] >= 70 && $row['obtained marks'] <= 74)
        $grade = "B-";
    elseif ($row['obtained marks'] >= 60 && $row['obtained marks'] <= 69)
        $grade = "C+";
    elseif ($row['obtained marks'] >= 65 && $row['obtained marks'] <= 64)
        $grade = "C";
    elseif ($row['obtained marks'] >= 55 && $row['obtained marks'] <= 59)
        $grade = "C-";
    elseif ($row['obtained marks'] >= 50 && $row['obtained marks'] <= 54)
        $grade = "D+";
    elseif ($row['obtained marks'] >= 45 && $row['obtained marks'] <= 49)
        $grade = "D";
    elseif ($row['obtained marks'] < 44)
        $grade = "F";
```

THANK YOU!