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| ***Ahsanullah University of Science & Technology***  Department of Computer Science & Engineering  **FALL 2021** |
| Admission Coaching Management System |
| CSE 3104: Project Proposal |
| Submitted By: |

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| --- | --- |
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# Motivation of the Project

* Creating a platform for students to get notified about their results and positions.
* Making it easier for the organization to have all the necessary data stored in an organized way.
* Creating a comfort zone for teachers to manage their time schedule for different batches.

# Project Goal

* Ensuring a better environment for handling admission coaching management system.
* Digitalization of Coaching management system.
* Create, store and process more accurate and precise data sets for better analyzing and betterment of the organization.
* To eradicate corruption and ensure transparency among the employees.

# Project Cost Calculation

Time required to complete: 11 weeks.

Considering 4 people working on this project for 11 weeks, 4 days each week, 2 hours per day:

Total working hours: (11x4x2) = 88 hours

Estimated salary for each teammate for each hour: 250 BDT

Besides, side costs like transportation cost, electricity cost, internet bills and other unseen costs (approximately): 12,000 BDT

So, the final cost of the project will be: (250x4x88) + 12,000 = 1,00,000 BDT

For selling the software, we would consider starting price from

* 10,000 BDT per month
* 96,000 BDT per year (20% discount)

# Potential Customers/Product Market

# Entrepreneurs

# Any coaching center

# Basically, any institute willing to conduct admission coaching.

# Requirement Analysis

Some main features of our software are:

* + - Login-Registration: A student can admit to the coaching center through registration and a teacher can apply to the coaching center through registration. Both teacher and student can login to the system and view their details.
    - Branch Enlistment: If our coaching center expands in the future, then a new branch can be enlisted through the system.
    - Batch Management: Enlistments or transfers in different batches as well as formation of new batches can be done through the system.
    - Conducting Exams and Publishing Results: Our system not only manages to conduct classes but also keeps track about exams and results of students.
    - Admin Features: An admin can keep all the records, view and edit them in our system.
    - Appointing and Transferring Teachers: Our system can appoint teachers to a specific batch and can transfer to different batch according to the requirements.
    - Coaching Focus: Our system focuses on Engineering and Engineering + Biology only. A student can admit to only one course.

Software requirements:

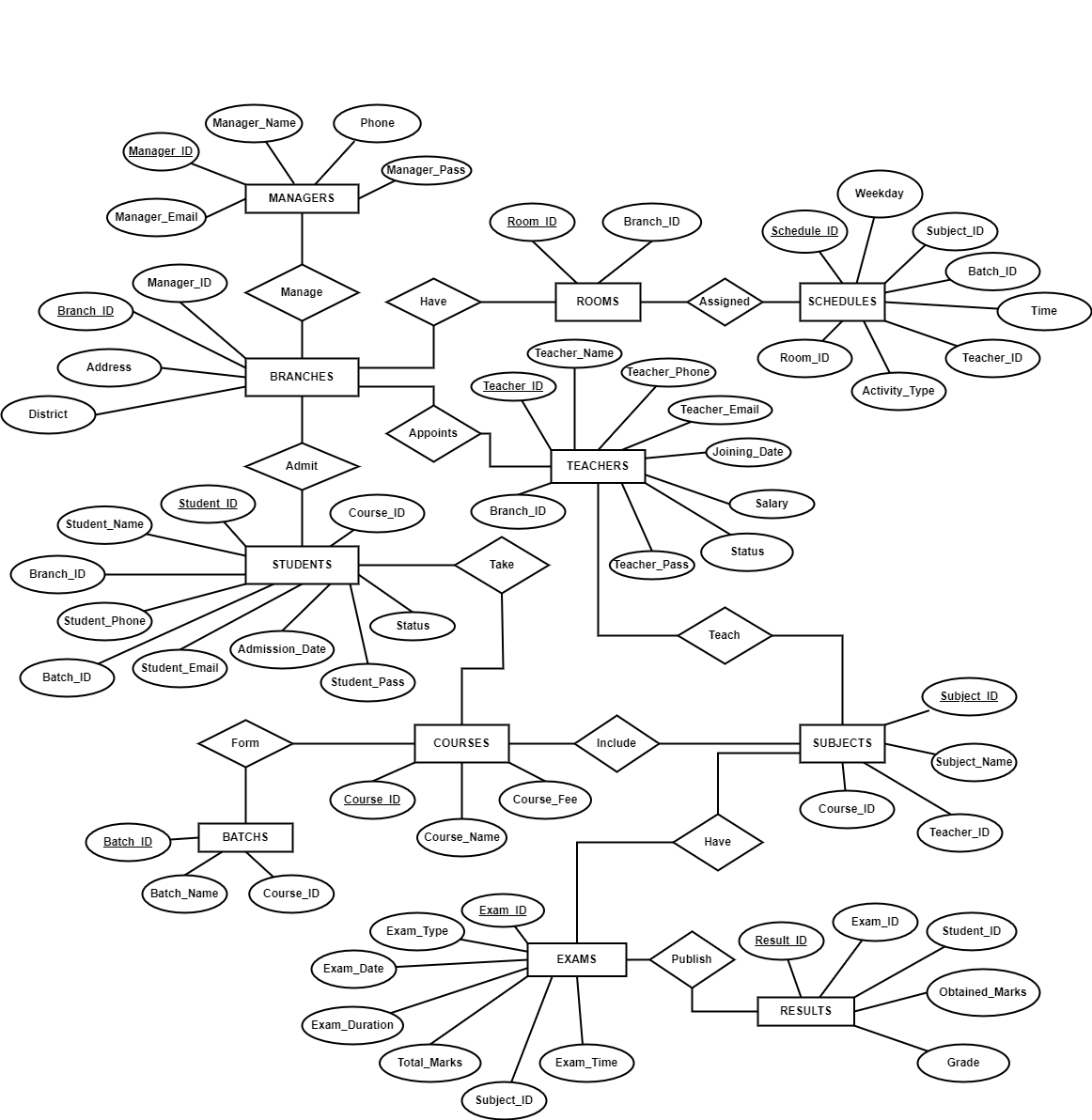
* **Front-End:** Apache NetBeans IDE 14
* **Back-End:** SQL Server Management Studio
  1. Schema/Tables

Possible Entities:

|  |  |
| --- | --- |
| * Admin | * Classes |
| * Branch | * Subjects |
| * Student | * Course |
| * Teacher | * Batches |
| * Room | * Exams |
| * Schedule | * Results |

Possible Relationship:

|  |  |
| --- | --- |
| * Manages | * Teach |
| * Admits | * Takes |
| * Has | * Forms |
| * Assigned | * Includes |
| * Appoints | * Publish |
| * Conduct |  |

* 1.  Entity Relationship Diagram
  2. Project Risks
* As time is limited, it might not be possible to fully implement the idea due to inexperience and lack of skills.
* As we are in a pandemic situation, COVID infection may hamper our progression of work.
  1. SQL

**/\*LOGIN-REGISTRATION\*/**

SELECT \* FROM STUDENTS WHERE student\_id="+UserID+" AND student\_pass='"+Password+"'

SELECT \* FROM TEACHERS WHERE teacher\_id="+UserID+" AND teacher\_pass='"+Password+"'

INSERT INTO STUDENTS VALUES('" + name + "','" + mobile + "','" + email + "','" + dtf.format(now) + "'," + courseid + ",'" + batchid + "','" + branchid + "','" + pass + "','UNREGISTERED')

INSERT INTO TEACHERS VALUES('" + name + "','" + email + "','" + mobile + "','25000','" + dtf.format(now) + "','" + branchid + "','" + pass + "','UNREGISTERED')

select course\_name from COURSES

select branch\_name from BRANCHES

SELECT \* FROM COURSES WHERE course\_name='"+course+"'

SELECT \* FROM BATCHS WHERE batch\_name='"+batch+"'

SELECT \* FROM BRANCHES WHERE branch\_name='"+branch+"'

SELECT batch\_name FROM BATCHS INNER JOIN COURSES ON BATCHS.course\_id=COURSES.course\_id WHERE COURSES.course\_name='"+coursename+"';

**/\*STUDENT PART\*/**

UPDATE STUDENTS SET student\_name=?,student\_email=?,student\_phone=? WHERE student\_id=?

SELECT \* FROM STUDENTS WHERE student\_id=?

SELECT \* FROM BATCHS WHERE batch\_id=?

SELECT \* FROM COURSES WHERE course\_id=?

SELECT \* FROM BRANCHES WHERE branch\_id=?

SELECT subject\_id,subject\_name,teacher\_name,teacher\_email,teacher\_phone FROM SUBJECTS INNER JOIN TEACHERS ON SUBJECTS.teacher\_id=TEACHERS.teacher\_id WHERE course\_id=?

SELECT exam\_date as Exam\_Date,subject\_id as Subject,exam\_total\_marks as Total\_Marks,result\_obtained\_marks as Obtained\_Marks,result\_grade as Grade,exam\_type as Type FROM RESULTS INNER JOIN EXAMS ON RESULTS.exam\_id=EXAMS.exam\_id WHERE student\_id=?

SELECT schedule\_starting\_time as Start\_Time,schedule\_activity\_type as Activity,subject\_id as Subject,room\_id as Room,teacher\_name as Teacher FROM SCHEDULES INNER JOIN TEACHERS ON SCHEDULES.teacher\_id = TEACHERS.teacher\_id WHERE schedule\_weekday = ? and batch\_id = ?

**/\*TEACHER PART\*/**

UPDATE TEACHERS SET teacher\_name=?,teacher\_email=?,teacher\_phone=? WHERE teacher\_id=?

SELECT \* FROM TEACHERS WHERE teacher\_id=?

SELECT course\_id,subject\_id, subject\_name FROM SUBJECTS WHERE teacher\_id = ?

SELECT subject\_id,subject\_name,teacher\_name,teacher\_email,teacher\_phone FROM SUBJECTS INNER JOIN TEACHERS ON SUBJECTS.teacher\_id=TEACHERS.teacher\_id WHERE course\_id=?

SELECT exam\_date as Exam\_Date,student\_id as Student\_ID, exam\_total\_marks as Total\_Marks,result\_obtained\_marks as Obtained\_Marks,result\_grade as Grade,exam\_type as Type FROM RESULTS INNER JOIN EXAMS ON RESULTS.exam\_id=EXAMS.exam\_id INNER JOIN SUBJECTS ON SUBJECTS.teacher\_id = ?

SELECT schedule\_starting\_time as Start\_Time,schedule\_activity\_type as Activity,subject\_id as Subject,room\_id as Room,teacher\_name as Teacher FROM SCHEDULES INNER JOIN TEACHERS ON SCHEDULES.teacher\_id = TEACHERS.teacher\_id WHERE schedule\_weekday = ? and SCHEDULES.teacher\_id = ?

**/\*MANAGER PART\*/**

SELECT S.subject\_name, C.course\_name

FROM SUBJECTS S

FULL JOIN COURSES C

ON S.course\_id = C.course\_id

WHERE S.teacher\_id = 2022030001;

SELECT S.subject\_name, C.course\_name FROM SUBJECTS S FULL JOIN COURSES C ON S.course\_id = C.course\_id WHERE S.teacher\_id = ?;

SELECT T.teacher\_id, T.teacher\_name, T.teacher\_phone, T.teacher\_email, T.teacher\_joining\_date, T.teacher\_reg\_status, B.branch\_name

FROM TEACHERS T

LEFT JOIN BRANCHES B

ON T.branch\_id = B.branch\_id

WHERE T.teacher\_id=2022030001;

SELECT T.teacher\_id, T.teacher\_name, T.teacher\_phone, T.teacher\_email, T.teacher\_joining\_date, T.teacher\_reg\_status, B.branch\_name

FROM TEACHERS T

LEFT JOIN BRANCHES B

ON T.branch\_id = B.branch\_id

WHERE T.teacher\_id=?

SELECT \*

FROM MANAGERS M

LEFT JOIN BRANCHES B

ON M.manager\_id = B.manager\_id

WHERE M.manager\_id=?

SELECT S.student\_id as ID,S.student\_name as Name,S.student\_phone as Phone,S.student\_email as Email,S.student\_admission\_date as Admission\_Date,C.course\_name as Course, BA.batch\_name as Batch, BR.branch\_name as Branch

FROM STUDENTS S

INNER JOIN COURSES C ON C.course\_id=S.course\_id

INNER JOIN BATCHS BA ON BA.batch\_id=S.batch\_id

INNER JOIN BRANCHES BR ON BR.branch\_id = S.branch\_id

WHERE S.student\_reg\_status = 'UNREGISTERED'

SELECT T.teacher\_id as ID,T.teacher\_name as Name,T.teacher\_phone as Phone,T.teacher\_email as Email,T.teacher\_joining\_date as Joining\_Date,T.teacher\_salary as Salary, BR.branch\_name as Branch

FROM TEACHERS T

INNER JOIN BRANCHES BR ON BR.branch\_id = T.branch\_id

WHERE T.teacher\_reg\_status = 'UNREGISTERED'

UPDATE TEACHERS

SET teacher\_reg\_status = 'UNREGISTERED'

WHERE teacher\_id = 2022030002

select \* from TEACHERS

select \* from BRANCHES

select \* from STUDENTS

select T.teacher\_name,T.teacher\_email,T.teacher\_phone,T.teacher\_salary,T.teacher\_joining\_date,B.branch\_name

FROM TEACHERS T

INNER JOIN BRANCHES B

ON T.branch\_id = B.branch\_id

WHERE T.teacher\_id = 2022030001

**/\*ADMIN PART\*/**

SELECT branch\_id,branch\_name,branch\_address,branch\_district,manager\_name FROM BRANCHES B INNER JOIN MANAGERS M ON M.manager\_id=B.manager\_id

UPDATE BRANCHES set branch\_name=?,branch\_address=?,branch\_district=?,manager\_id=? WHERE branch\_id=?

SELECT batch\_id,batch\_name,course\_name FROM BATCHS B INNER JOIN COURSES C ON C.course\_id=B.course\_id

SELECT subject\_id,subject\_name FROM SUBJECTS WHERE course\_id=?

UPDATE BATCHS set batch\_name=?,course\_id=? WHERE batch\_id=?

SELECT exam\_id,exam\_type,exam\_date,exam\_duration,exam\_total\_marks,subject\_id,exam\_time FROM EXAMS

SELECT manager\_id,manager\_name,manager\_phone,manager\_email FROM MANAGERS

INSERT INTO BRANCHES VALUES(?,?,?,?)

* 1. Contribution
* Animesh Das Chowdhury (190204058) (27%)
* ERD
* Login (Backend)
* Registration (Backend)
* Table Design
* Manager Part
* Tonmoy Banik (190204059) (25%)
* ERD
* Teacher Part (Frontend)
* Teacher Part (Backend)
* Table Design
* Admin and Manager (Backend)
* Mohammad Tanveer Shams (190204060) (28%)
* ERD
* Student Part (Frontend)
* Student Part (Backend)
* Table Design
* Admin Part
* Maruf Rusafi Arnob (190204088) (20%)
* ERD
* Table Design
* Splash Screen and Logo Design
* Login and Registration (Frontend)
* SQL Part
  1. Conclusion

The aim to build this software is to utilize database management system and implement it in our daily life to make our life-style easier. In our country, admission coaching is a career deciding step for students and the demand of an organized admission coaching center is high. To maintain the reputation and educational quality, a coaching center must have to be well maintained, organized and transparent. Our project will save a lot of time for the coaching center, digitalize their entire record and relieve them from the hassle of maintaining all data manually.