North South University

”E-learning platform”

Database Schema, ER Diagram, Use Case Diagram

Database System Lab
CSE311L
Section: 2

Semester: Summer 2021

Students Name and ID:

1. Maheenul Hoque Chowdhury
ID:- 1921133642
2.Halima Akter Mohona
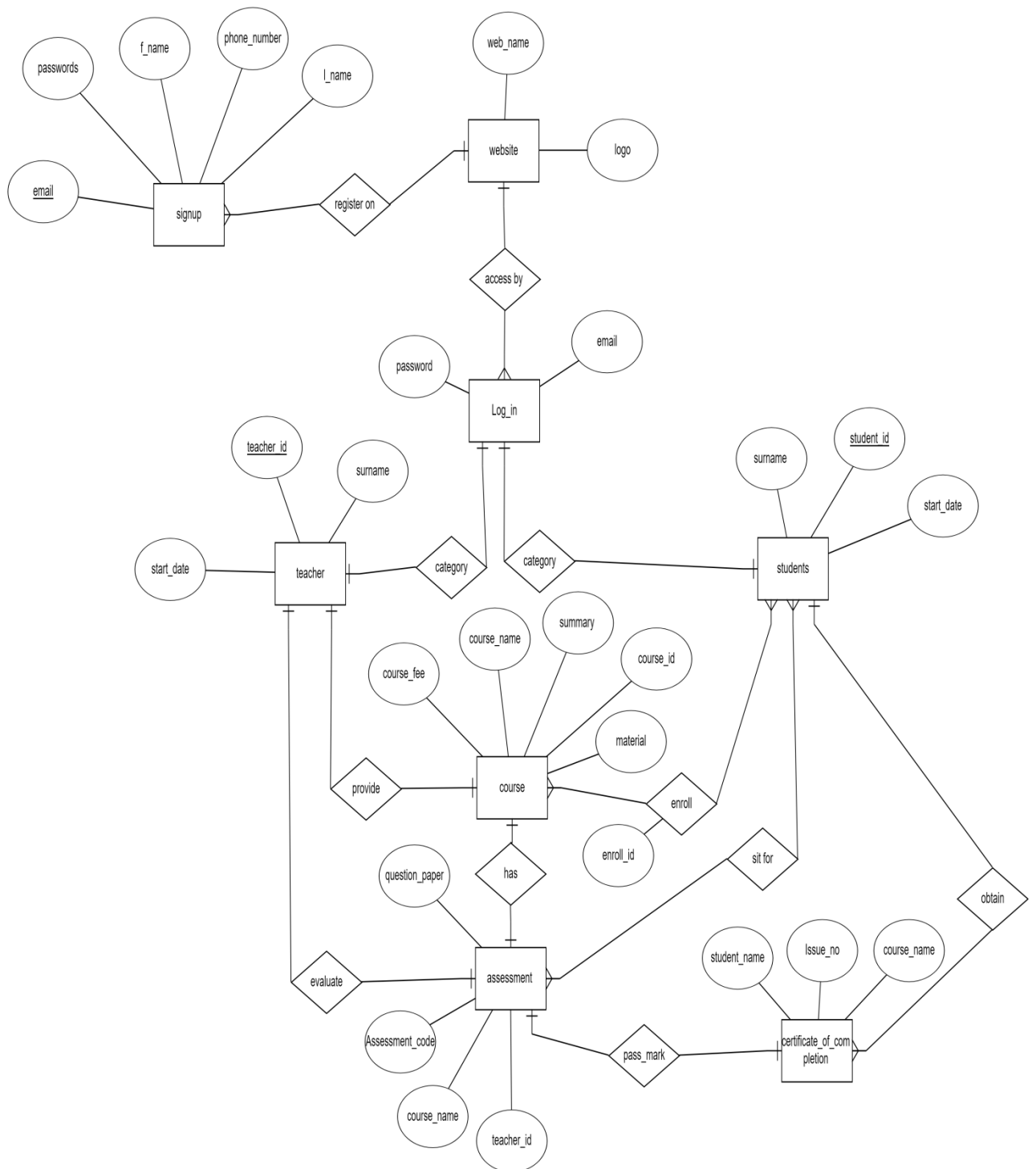ID:- 1912126642
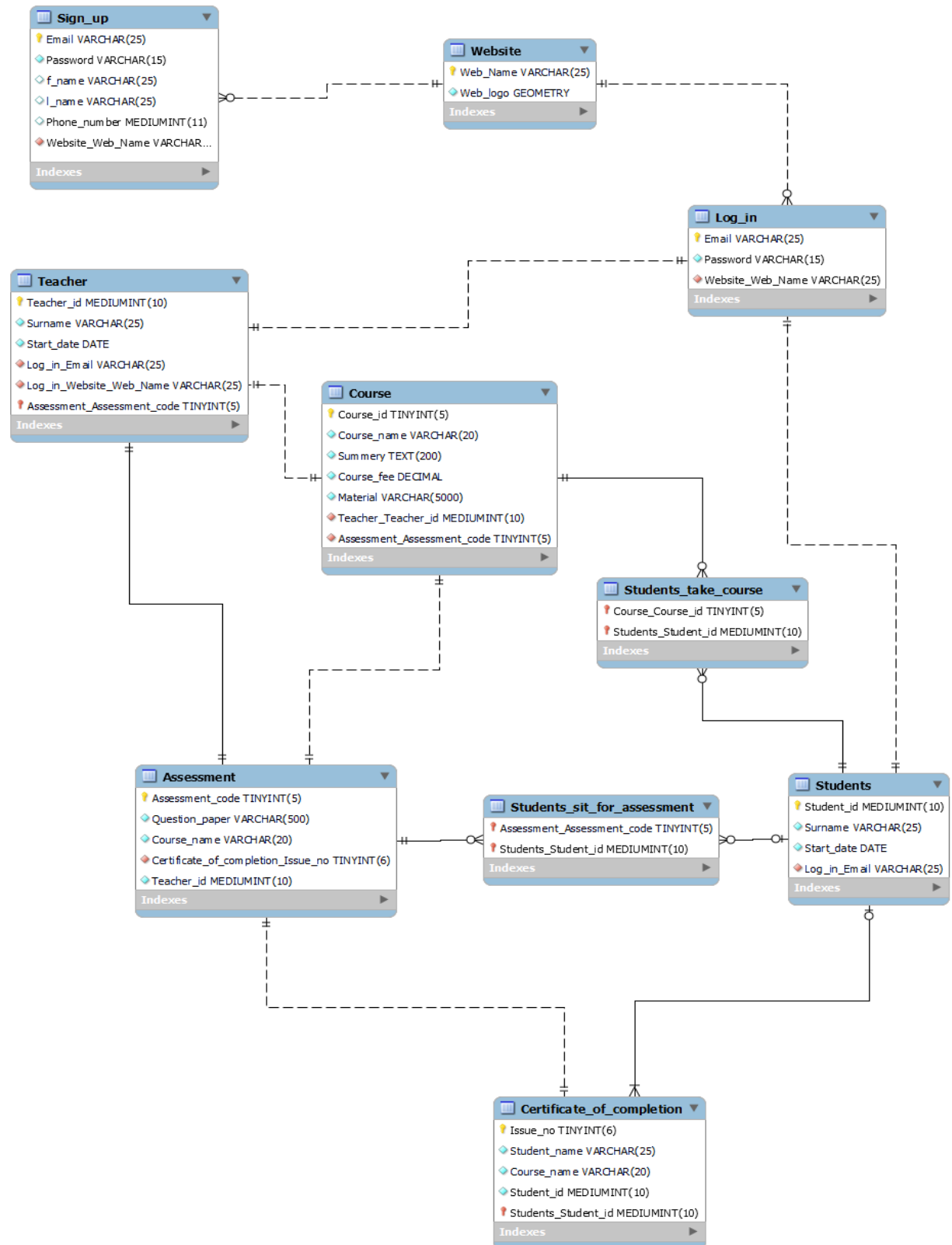3.Sadman Shahriar
ID:- 1922039642

Course Faculty:
Ahmed Fahmin

Lab Instructor:
Nazmul Alam Dipto

Logical Diagram

Physical Diagram

Sign_up
- Email VARCHAR(25)
- Password VARCHAR(15)
- f_name VARCHAR(25)
- l_name VARCHAR(25)
- Phone_number MEDIUMINT(11)
- Website_Web_Name VARCHAR...

Indexes

Website
- Web_Name VARCHAR(25)
- Web_logo GEOMETRY

Indexes

Log_in
- Email VARCHAR(25)
- Password VARCHAR(15)
- Website_Web_Name VARCHAR(25)

Indexes

Teacher
- Teacher_id MEDIUMINT(10)
- Surname VARCHAR(25)
- Start_date DATE
- Log_in_Email VARCHAR(25)
- Log_in_Website_Web_Name VARCHAR(25)
- Assessment_Assessment_code TINYINT(5)

Indexes

Course
- Course_id TINYINT(5)
- Course_name VARCHAR(20)
- Summery TEXT(200)
- Course_fee DECIMAL
- Material VARCHAR(5000)
- Teacher_Teacher_id MEDIUMINT(10)
- Assessment_Assessment_code TINYINT(5)

Indexes

Students_take_course
- Course_Course_id TINYINT(5)
- Students_Student_id MEDIUMINT(10)

Indexes

Assessment
- Assessment_code TINYINT(5)
- Question_paper VARCHAR(500)
- Course_name VARCHAR(20)
- Certificate_of_completion_Issue_no TINYINT(6)
- Teacher_id MEDIUMINT(10)

Indexes

Students_sit_for_assessment
- Assessment_Assessment_code TINYINT(5)
- Students_Student_id MEDIUMINT(10)

Indexes

Students
- Student_id MEDIUMINT(10)
- Surname VARCHAR(25)
- Start_date DATE
- Log_in_Email VARCHAR(25)

Indexes

Certificate_of_completion
- Issue_no TINYINT(6)
- Student_name VARCHAR(25)
- Course_name VARCHAR(20)
- Student_id MEDIUMINT(10)
- Students_Student_id MEDIUMINT(10)

Indexes

Use Case Diagram

E-learning Platform

- signup/log in
- view materials
- edit/remove materials
- Assessment
- Payment
- Certificate download
- Personal information
- Update history

HOST

Teacher

Students