Sri Lanka Institute of Information Technology

Final Group Project.

MLB_01.02_04

Online Teacher Training system

IT1090 – Information Systems and Data Modeling (ISDM)

B.Sc. (Hons) in Information Technology

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1.0 INTRODUCTION

For the past few years, educators have had to create their "virtual classrooms" from scratch, which is difficult and often leads to poor results. Today, entire industries have sprung up to do this for us. Introducing sllitex to the world of online education. enable Teachers can design and deliver their courses within a flexible framework that includes some Various tools to enable learning methods. Online learning is facilitating an educational shift in the way we teach and learn. there is a shift Moving from top-down lectures and passive students to more interaction and collaboration The way students and teachers work together to shape the learning process. Many people in the world today are accustomed to online education due to corona.

2.0 HYPOTHETICAL SCENARIO

In the online Teacher Training System, a user could access the system in two ways. One way is accessing the system as a guest. The system will allow the guest to view the website, namely the Home page, courses details page and user login page. A guest could visit the Home page and view details of any course that the guest prefer. If the guest prefer to register to the system, the guest can be a member of a system. To register, the user need to enter the sign-up details to the system .

After registering as a member the user can log in to the system and enroll to a preferred course . when enrolling to the particular course, the member should fill in the details an do the payment, by providing the necessary details.

Following the enrollment to the course, the user is allowed to access the lectures and other resources provided by the system. Such as e-books, past papers etc.…, Lecture captures, contacting the lecturer. The member is allowed to access notifications, user account settings plus enjoy seasonal offers.

3.0 Requirement Analysis.

3.1 Main requirement for the website.

Functional requirement

Registered customer (Student) :-

- Should be able to log in to the system
- Browse on Course Page
- Can enroll to Courses
- Make payment from credit or debit cards
- Check the Schedule
- Able to change account settings
- Attend to training sessions
- Contact lecturers or staff member
- Ask Questions (Support service)
- Explore Resources (eBooks, lecture recordings etc.)
- Can view the offers page
- Can access social media contacts

Non- registered user (Guest) :-

- Should be able to view home page
- Should be able to view course details in course page
- Contact staff member (Contact us)
- Ask Questions (Support service)
- Can access social media links
- Can be register into the system (sign up)

Instructor (Lecturer) :-

- Able to Log in to the system
- Explore resources (eBooks)
- Check the lecture schedules
- Can view student information

- Conduct lectures
- Should be able to change account settings
- Send notifications to students
- Communicate with students
- Contact stuff member (administrator)

Administrator :-

- Able to view students and lecturers details
- Assign students to specific courses
- Assign lecturers to specific courses
- Update lecture details
- Answer to questions (support services)
- Upload resources (lecture recordings ,e books)
- Upload FAQs
- Send notifications to students and lecturers
- Upload exam questions and marks
- Analyze student's performance
- Analyze student's participation for courses
- Maintain the data in the system

Technician (back end developer) : -

- Analyze system performance
- Back up information
- Update course details
- Update content of the system
- Adding new features and content into the system
- Maintain the security of the system
- Communicate with staff.

Non-Functional requirement

Availability

- Available for web site
- this system should be available in 24/7
- a user must be able to use the system through any device
- user friendly interface

Capacity

- system have large number of schedule list
- system should have the capability to store all the data for the customer need

Reliability

- When the customer receives invalid user credentials, the system will detect invalid user credentials. Invalid entry in reservation request form.
- The system should not lose any booking details using Permanent storage and regular backups.
- The system should correctly validate the customer's fare and their payment methods.

Speed

- The system responds to customers or members without delay.
- The system does not allow delays. 00. Can access more clients at the same time without being blocked.

Security

- There should be at least two servers: one primary and one backup.
- Using their unique memberID, users are authenticated and validated Adequate accountability.
- Only the administrator has access to and manages the accounts of all members.

3.1 Data requirements for the website

Student(user):-

- Student ID (stu_id) – Primary key
- Student name (stu_name)
- Student Username (stu_uname)
- Student Address (stu_address)
- NIC
- Email
- Password
- Date of Birth (dob)
- Age
- Contact number (contact_no)
- Course ID (c_id) – Foreign key
- Instructor ID (ins_id) – Foreign key

Instructor(lecturer):-

- Instructor ID (ins_id) – Primary Key
- Instructor name (ins_name)
- Instructor username (ins_uname)
- NIC
- Email
- Password
- Date of Birth (dob)
- Contact number (contact_no)
- Age
- Course ID (c_id) – Foreign key
- Student ID (stu_id) – Foreign key

Course:-

- Course ID(c_id) – Primary key
- Course name(c_name)

- Course type(c_type)
- Duration
- Day
- Time
- Enrollment key(enroll_key)
- Exam ID(e_id) – Foreign key
- Instructor ID (ins_id) – Foreign key
- Student ID (stu_id) – Foreign key

Administrator(Admin):-

- Administrator ID(a_id) – Primary key
- Administrator name(a_name)
- NIC
- Email
- Password
- Date of Birth(dob)
- Contact number(contact_no)
- Age

Technician:-

- Technician ID(tech_id) – Primary key
- Technician name(tech_name)
- NIC
- Email
- Password
- Date of birth(dob)
- Contact number(contact_no)

Resources:-

- Resource ID(r_id) – Primary key
- Resource Name(r_name)

- Resource type(r_type)
- Course ID (c_id) – Foreign key

Payment:-

- Payment ID(p_id) – Primary key
- Payment type(p_type)
- Payment date(p_date)
- Payment time(p_time)
- Amount
- Student ID (stu_id) – Foreign key
- Course ID (c_id) – Foreign key

Certificate:-

- Certificate number(cer_no) – Primary key
- Certificate name(cer_name)
- Date that certificate issues(cer_date)
- Course ID (c_id) – Foreign key

Offers:-

- Offer ID(off_id) – Primary key
- Offer name(off_name)
- Offer valid duration(duration)
- Course ID (c_id) – Foreign key

Content:-

- Content ID(cont_id) – Primary key
- Content type(cont_type)
- Course ID (c_id) – Foreign key

Exam:-

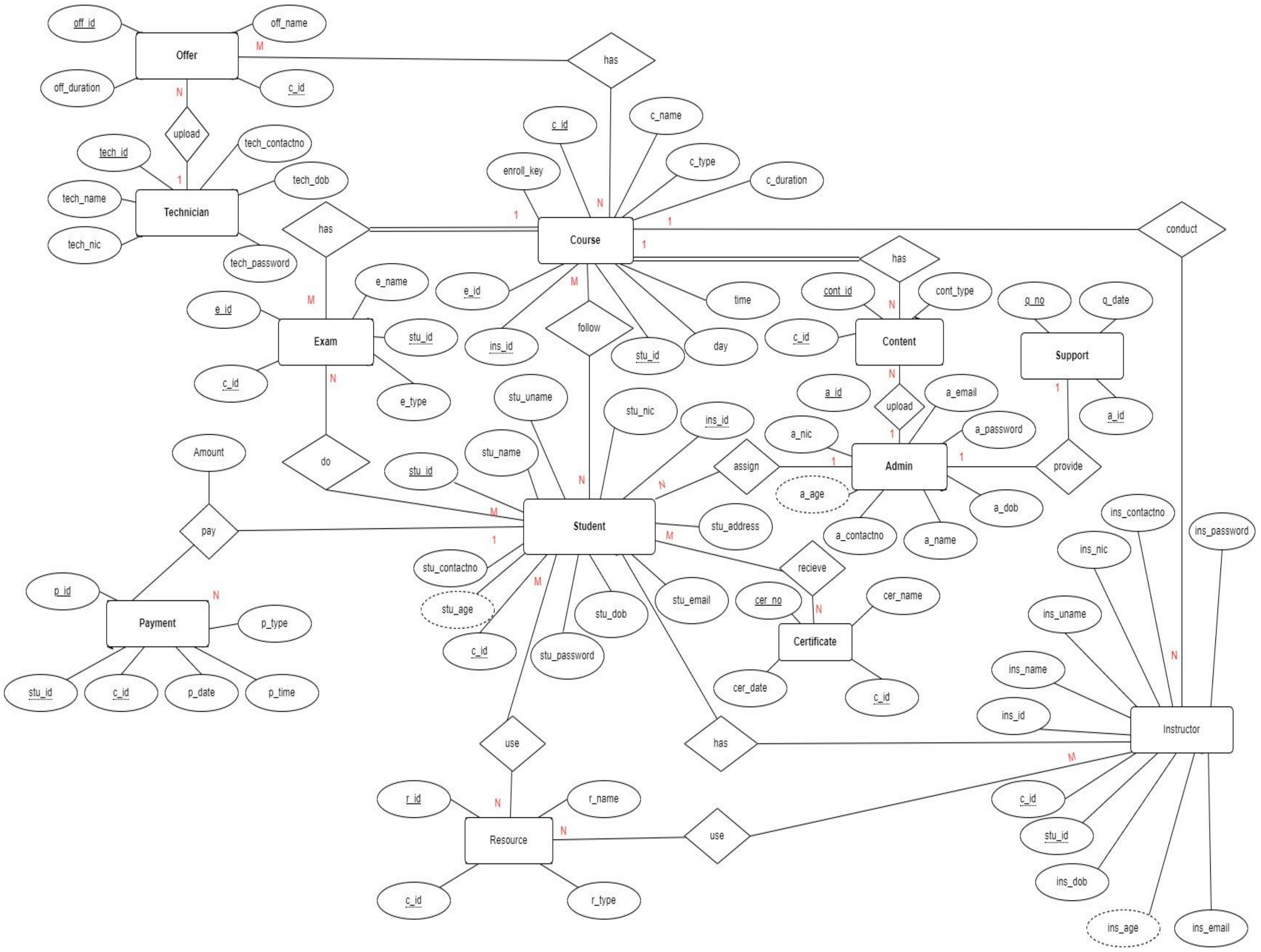
- Exam ID(e_id) – Primary key
- Exam name(e_name)

- Exam type(e_type)
- Student ID (stu_id) – Foreign key
- Course ID (c_id) – Foreign key

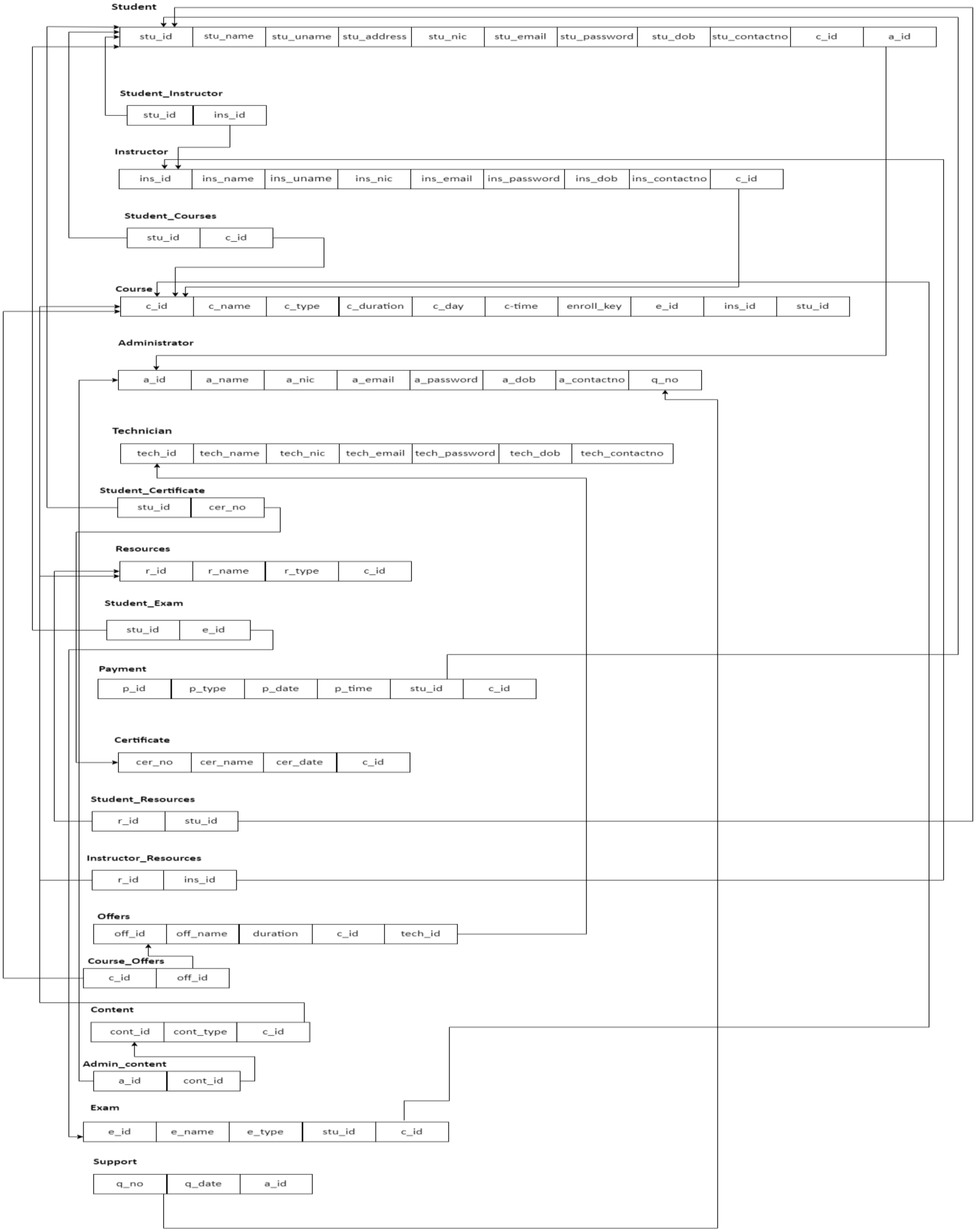
Support:-

- Question number(q_no)
- Question date(q_date)
- Administrator ID(a_id) – Foreign key

4.0 Entity Relationship (E-R Diagram).



5.0 Relational Schema.



Student

stu_id	stu_name	stu_uname	stu_address	stu_nic	stu_email	stu_password	stu_dob	stu_contactno	c_id	a_id

Student_Instructor

stu_id	ins_id

Instructor

ins_id	ins_name	ins_uname	ins_nic	ins_email	ins_password	ins_dob	ins_contactno	c_id

Student_Courses

stu_id	c_id

Course

c_id	c_name	c_type	c_duration	c_day	c-time	enroll_key	e_id	ins_id	stu_id

Administrator

a_id	a_name	a_nic	a_email	a_password	a_dob	a_contactno	q_no

Technician

tech_id	tech_name	tech_nic	tech_email	tech_password	tech_dob	tech_contactno

Student_Certificate

stu_id	cer_no

Resources

r_id	r_name	r_type	c_id

Student_Exam

stu_id	e_id

Payment

p_id	p_type	p_date	p_time	stu_id	c_id

Certificate

cer_no	cer_name	cer_date	c_id

Student_Resources

r_id	stu_id

Instructor_Resources

r_id	ins_id

Offers

off_id	off_name	duration	c_id	tech_id

Course_Offers

c_id	off_id

Content

cont_id	cont_type	c_id

Admin_content

a_id	cont_id

Exam

e_id	e_name	e_type	stu_id	c_id

Support

q_no	q_date	a_id

6.0 SQL Quires to Create the Data Base.

Create database

```sql
---Adminstrator Table---
Create table administrator(
a_id char(5) not null,
a_name varchar(60),
a_nic varchar(15),
a_email varchar(30),
a_password varchar(15),
a_dob date,
a_contactno char(10),
constraint adminstator_PK primary key(a_id),
constraint adminstrator_PKCh check(a_id like '[A/a][0-9][0-9][0-9][0-9]')
);

---Course Table---
Create table course(
c_id char(5) not null,
c_name varchar(30),
c_type varchar(15),
c_duration varchar,
c_day date,
c_time time,
enroll_key varchar(5),
e_id char(10) not null,
ins_id char(5) not null,
stu_id char(10) not null,
constraint course_PK primary key(c_id),
constraint course_PKCh1 check(c_id like '[C/c][C/c][0-9][0-9][0-9]'),
constraint course_PKCh2 check(c_id like '[D/d][C/c][0-9][0-9][0-9]'),
constraint course_PKCh3 check(c_id like '[U/u][C/c][0-9][0-9][0-9]'),
constraint course_PKCh4 check(c_id like '[P/p][C/c][0-9][0-9][0-9]'),
);


---Student Table---
Create table student(
stu_id char(10) not null,
stu_name varchar(60),
stu_uname varchar(20),
stu_address varchar(60),
stu_nic varchar(15),
stu_email varchar(30),
stu_password varchar(15),
stu_dob date,
stu_contactno char(10),
a_id char(5) not null,
constraint student_PK primary key(stu_id),
constraint student_PKCh check(stu_id like '[A-Z][A-Z][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]'),
constraint fk_student foreign key(a_id) references administrator(a_id)
);

---Instructor Table---
Create table instructor(
ins_id char(5) not null,
ins_name varchar(60),
ins_uname varchar(20),
ins_nic varchar(15),
ins_email varchar(30),
ins_password varchar(15),
ins_dob date,
ins_contactno char(10),
c_id char(5) not null,
constraint instructor_PK primary key(ins_id),
constraint instructor_PKCh check(ins_id like '[I/i][0-9][0-9][0-9][0-9]'),
constraint fk_instructor foreign key(c_id) references course(c_id)
);


--Technician Table--
Create table technician(
tech_id char(5) not null,
tech_name varchar(60),
tech_nic varchar(15),
tech_email varchar(30),
tech_password varchar(15),
tech_dob date,
tech_contactno char(10),
constraint technician_PK primary key(tech_id),
constraint technician_PKCh check(tech_id like '[T/t][E/e][C/c][0-9][0-9]')
);

--Resource Table--
Create table rec(
r_id char(5) not null,
r_name varchar(30),
r_type varchar(10),
constraint rec_PK primary key(r_id),
);

--Payment Table--
Create table payment(
p_id char(8) not null,
p_type varchar(10),
p_date date,
p_time time,
amount char(8),
stu_id char(10) not null,
constraint payment_PK primary key(p_id),
constraint payment_PKCh check(p_id like '[A-Z][A-Z][0-9][0-9][0-9][0-9][0-9][0-9]'),
constraint fk_payment foreign key(stu_id) references student(stu_id)
);

--Certificate Table--
Create table certi(
cer_no char(6) not null,
cer_name varchar(50),
cer_date date,
c_id char(5) not null,
constraint certi_PK primary key(cer_no),
constraint certi_PKCh check(cer_no like '[A-Z][A-Z][0-9][0-9][0-9][A-Z]'),
constraint certi_FK foreign key(c_id) references course(c_id)
);
```

```sql
--Offer Table--
Create table offer(
off_id char(5) not null,
off_name varchar(50),
off_duration date,
tech_id char(5) not null,
constraint offer_PK primary key(off_id),
constraint fk_offer foreign key(tech_id) references technician(tech_id)
);

--Content Table--
Create table content(
cont_id char(5) not null,
cont_type varchar(50),
c_id char(5) not null,
a_id char(5) not null,
constraint cont_PK primary key(cont_id),
constraint cont_FK foreign key(c_id) references course(c_id),
constraint fk2_content foreign key(a_id) references administrator(a_id)
);

--Exam Table--
Create table exam(
e_id char(5) not null,
e_name varchar(50),
e_type varchar(20),
c_id char(5) not null,
constraint exam_PK primary key(e_id),
constraint fk_exam foreign key(c_id) references course(c_id)
);

--Support Table--
Create table support(
q_no char(8) not null,
q_date date,
a_id char(5) not null,
constraint support_PK primary key(q_no),
constraint support_FK foreign key(a_id) references administrator(a_id)
);

---Student_Instructor---
Create table student_instructor(
stu_id char(10) not null,
ins_id char(5) not null,
constraint fk1_student_instructor foreign key(stu_id) references student(stu_id),
constraint fk2_student_instructor foreign key(ins_id) references instructor(ins_id)

);


---Student_Course---
Create table student_course(
stu_id char(10) not null,
c_id char(5) not null,
constraint fk1_student_instructor foreign key(stu_id) references student(stu_id),
constraint fk2_student_instructor foreign key(c_id) references course(c_id)
);

--Student_Certificate–
Create table student_certificate (
stu_id char(10) not null,
cer_no char(6) not null,
constraint fk1_student_certificate foreign key(stu_id) references student(stu_id),
constraint fk2_student_certificate foreign key(cer_no) references certi(cer_no)
);

--Student_Exam–
Create table student_exam (
stu_id char(10) not null,
e_id char(5) not null,
constraint fk1_student_exam foreign key(stu_id) references student(stu_id),
constraint fk2_student_exam foreign key(e_id) references exam(e_id)
);
--Student_Resources–
Create table student_resources(
r_id char(5) not null,
stu_id char(10) not null,
constraint fk1_student_resources foreign key(stu_id) references student(stu_id),
constraint fk2_student_resources foreign key(r_id) references rec(r_id)
);

--Instructor_Resources–
Create table instructor_resources(
r_id char(5) not null,
ins_id char(5) not null,
constraint fk1_instructor_resources foreign key(ins_id) references instructor(ins_id),
constraint fk2_instructor_resources foreign key(r_id) references rec(r_id)
);

--Course_Offers–
Create table course_offers(
c_id char(5) not null,
off_id char(5) not null,
constraint fk1_course_offers foreign key(c_id) references course(c_id),
constraint fk2_course_offers foreign key(off_id) references offer(off_id)
);
--Admin_Content–
Create table admin_content(
a_id char(5) not null,
cont_id char(5) not null,
constraint fk1_admin_content foreign key(a_id) references administrator(a_id),
constraint fk2_admin_content foreign key(cont_id) references content(cont_id)
);

--Student info--
Insert into student VALUES('BT02347121','Shaliniya
Imeshini','Shali_2002','kandana','200201456155','shaliimeshi@gmail.com','Iloveteacher001',19
99-05-03,0702971773,'CC001','Oshan DiaS');
Insert into student VALUES('BT04184810','Ovini
Yazara','OviniBTC','Anuradhapura','1998153601V','ovins@yahoo.com','Blackeyes534',1999-05-
03,0769311540,'CC002','Santhush Abeykoon');
Insert into student VALUES('TT08254563','Deshitha
Thejan','Deshitha_TTC','Balangoda','200156608168','deshi004@gmail.com','Sleepingbeauty@3',19
99-05-03,776864451,'OI001','Suran Dias');
Insert into student VALUES('DE01053443','Lakindu
Gathsara','DEE_Lakindu','Piliyandala','200130002616','laki99@hotmail.com','Teachertraining#4
',1999-05-03,0789798437,'UC001','Supuni perera');
Insert into student VALUES('ME01033445','Janaka
Pruthuvi','MEDpruthuvi','Kalubowila','200200404166','janakapruthuvi@gmail.com','0112704119ja
naka',2000-01-04,0765658411,PC001,'Mihiri Alaharuwa');
```

```sql
--Instructor info--
Insert into instructor VALUES('In1001','Thisara
Dewind','Ins_Thisara','68686802V','Thisara.Ins@sllitex.com','Makeit001@',1999-01-
10,0771019977,'CC001');
Insert into instructor VALUES('In1002','Sachintha
hasaranga','Ins_Sachi','34891092v','Sachi.Ins@sllitex.com','23456@INS',1992-08-
02,0773321546,'CC002');
Insert into instructor VALUES('In1003','Rivi
Abhishek','Ins_Rivi','198800204166V','Rivi.Ins@sllitex.com','Dostudy123',1988-10-
30,0766998881,'OI001');
Insert into instructor VALUES('In1004','Hansindu
Nelitha','Ins_Nelitha','199214681389V','Hansindu.Ins@sllitex.com','HIstu@119',1992-11-
30,0753422615,'UC001');
Insert into instructor VALUES('In1005','Kaveesha
Surangi','Ins_kaveesha','68141094V','Kavee.Ins@sllitex.com','HelloDay@',1985-06-
05,0709899087,'PC001');

--course info--
Insert into course VALUES('CC001','Basic Training Certificate','Certificate_course','3
months',2022-02-05,1900,'Basic_Training','In100','E0001','BT02347121');
Insert into course VALUES('CC002','Primary Training Certificate' ,'Certificate_course','4
months',2022-05-01,1900,'Primary_Training','In1002','E0002','BTO4184810');
Insert into course VALUES('OI001','Elementry Training Certificate','Certificate_course','6
months',2022-05-15,1900,'Elementry_Training','In1001','E0003','TT08254563');
Insert into course VALUES('UC001','Bachelor Training Certificate','Certificate_course','1
year' ,2022-05-01,800,'Bachelor_Training','In1001','E0004','DEE1053443');
Insert into course VALUES('PC001','Masters Training Certificate','Certificate_course','2
year',2022-05-20,1900,'Masters_Training','In1001','E0005','ME01033445');

--student_instructor–
Insert into student_instructor VALUES('BT02347121','In1001')
Insert into student_instructor VALUES('BT04184810','In1002');
Insert into student_instructor VALUES('TT08254563','In1003');
Insert into student_instructor VALUES('DE01053443','In1004');
Insert into student_instructor VALUES('ME01033445','In1005');

--student_course--
Insert into student_course VALUES('BT02347121', 'CC001');
Insert into student_course VALUES('BT04184810', 'CC002');
Insert into student_course VALUES('TT08254563', 'OI001');
Insert into student_course VALUES('DE01053443', 'UC001');
Insert into student_course VALUES('ME01033445', 'PC001');


--Administrator–
Insert into administrator VALUES('AD001','Oshan
Dias','68195662V','oshan@sllitex.com','Aid001@',1999-1-2,0778991001,'Q1531');
Insert into administrator VALUES('AD001','Santhush
Abeykoon','198800404566V','santhusha@sllitex.com','BOSS@#3',1999-1-2,0767934056,'Q1532');
Insert into administrator VALUES('AD001', 'Suran
Dias','198200101011V','oshan@sllitex.com','Twins#02',1988-5-9,0778556223,'Q1533');
Insert into administrator VALUES('AD001','Supuni perera','19820010112V','oshan@sllitex.com',
'Twins#01',1999-10-11,0776675438,'Q1534');
Insert into administrator VALUES('AD001','Mihiri
Alaharuwa','51822412V','oshan@sllitex.com','Teach005',1980-6-5,0778651003,'Q1535');

--Technician–
Insert into technician VALUES('Tec01','Gaveesh
Nuwan','6438201v','gaveesh@sllitex.com','Bluewhite05',1992-01-16,0119988822);
```

```
Insert into technician VALUES('Tec02','Suren
Kamishka','6440101v','suren@sllitex.com','#2suren',1988-06-30,0119988844);
Insert into technician VALUES('Tec03','Praveen
Vimod','6488524v','praveen@sllitex.com','IlOVEWEB3',1982-10-20,0119988866);
Insert into technician VALUES('Tec04','Imesh
Sandeepa','648852v','imesh@sllitex.com','imesh#35',1995-11-20,0119988888);
Insert into technician VALUES('Tec05','Lakshan
Abheshek','161752v','lakshan@sllitex.com','AbheeUS#4',1988-12-15,01199888255);

--student course–
Insert into student_course VALUES(‘BT02347121’,’ BTC053P’);
Insert into student_course VALUES(‘BT04184810’,’BTC054P’) ;
Insert into student_course VALUES(‘TT08254563’, ‘TTC134P’);
Insert into student_course VALUES(‘DE01053443’,’MED054P’);
Insert into student_course VALUES(‘ME01033445’,’MED055P’);

--resources–
Insert into rec VALUES(‘R5141’,’Teach like a pride’,’e-book’, ‘CC001’);
Insert into rec VALUES(‘R5142’,’Pedagogy to the Oppressed’,’e-book’, ‘CC00’);
Insert into rec VALUES(‘R5143’,’The Freedom writer diary’,’magazine’, ‘OI001’);;
Insert into rec VALUES(‘R5144’,’Logical Tech’ ,’e-book’, ‘UC001’);
Insert into rec VALUES(‘R5145’,’Retrived Practice’,’article’, ‘PC001’);

--student_exam–
Insert into student_exam VALUES(‘BT02347121’,’E0001’);
Insert into student_exam VALUES(‘BT04184810’,’E0002’);
Insert into student_exam VALUES(‘TT08254563’,’E0003’);
Insert into student_exam VALUES(‘DE01053443’,’E0004’);
Insert into student_exam VALUES(‘ME01033445’,’E0005’);

--payment–
Insert into payment VALUES(‘P1521’,’Credit Card’,’$75’,2022-03-15,915,’BT02347121’,’CC001’);
Insert into payment VALUES(‘P1522’,’Debit Card’,’$100’,2022-03-
15,1020,’BT04184818’,’CC002’);
Insert into payment VALUES(‘P1523’,’Credit Card’,’$100’,2022-03-
15,1450,’TT08254563’,’DI001’);
Insert into payment VALUES(‘P1524’,’Credit Card’,’$280’,2022-03-
16,1310,’DE01053443’,’UC001’);
Insert into payment VALUES(‘P1525’,’Credit Card’,’$300’,2022-03-
17,1230,’ME01033445’,’PC001’);

--certificate info–
Insert into certi VALUES(‘BTC053P’,’Basic Training Passed’,2022-03-15, ‘CC001’);
Insert into certi VALUES(‘BTC054P’,’Basic Training Passed’,2022-03-16, ‘CC002’);
Insert into certi VALUES(‘TTC134P’,’Teacher Training Passed’,2022-03-16,’DI001’);
Insert into certi VALUES(‘MED054P’,’Master’s of Education Passed’,2022-03-17,’UC001’);
Insert into certi VALUES(‘MED055P’,’Master’s of Education Passed’,2022-03-15,’PC001’);

--student_resource info–
Insert into student_resources VALUES(‘RS141’,’BT02347121’);
Insert into student_resources VALUES(‘RS142’,’BT04184810’);
Insert into student_resources VALUES(‘RS143’,’TT08254563’);
Insert into student_resources VALUES(‘RS144’,’DE01053443’);
Insert into student_resources VALUES(‘RS145’,’ME01033445’);

--instructor_resources info–
Insert into instructor_resources VALUES(‘RS141’, ‘INS001’);
Insert into instructor_resources VALUES(‘RS142’, ‘INS002’);
Insert into instructor_resources VALUES(‘RS143’, ‘INS003’);
Insert into instructor_resources VALUES(‘RS144’, ‘INS004’);
Insert into instructor_resources VALUES(‘RS145’, ‘INS005’);

--offers info–
Insert into offers VALUES(‘off01’,’Discount on Basic Training’,2022-03-20,
‘CC001’,’TEC001’);
Insert into offers VALUES(‘off02’,’20% off on Masters’,2022-03-25, ‘CC002’,’TEC002’);
Insert into offers VALUES(‘off03’,’Discount on Elementary training’,2022-04-10,
‘CC003’,’TEC003’);
Insert into offers VALUES(‘off04’,’30% off on Diplomas’,2022-04-25, ‘CC004’,’TEC004’);
Insert into offers VALUES(‘off05’,’30% off to payments on seylan cards’,2022-05-10,
‘CC005’,’TEC005’);

--course offers info–
Insert into course_offers VALUES(‘CC001’,’off01’);
Insert into course_offers VALUES(‘CC002’,’off02’);
Insert into course_offers VALUES(‘DI001’,’off03’);
Insert into course_offers VALUES(‘UC001’,’off04’);
Insert into course_offers VALUES(‘PC001’,’off05’);

--content info–
Insert into content VALUES(‘B51401’,’Diagram’,’CC001’);
Insert into content VALUES(‘B51402’,’Data Flow’,’CC002’);
Insert into content VALUES(‘TS1652’,’Pie charts’,’DI001’);
Insert into content VALUES(‘IS1651’,’Image’,’UC001’);
Insert into content VALUES(‘TS1653’,’Diagram’,’PC001’);

--admin content–
Insert into admin_content VALUES (‘AD001’,’B51401’);
Insert into admin_content VALUES(‘AD002’,’B51402’);
Insert into admin_content VALUES(‘AD003’,’TS1652’);
Insert into admin_content VALUES(‘AD004’,’IS1651’);
Insert into admin_content VALUES(‘AD005’,’TS1653’);

--exam info–
Insert into exam VALUES(‘E0001’,’BTC(Lec 1-5)’,’Spot test’,’CC001’);
Insert into exam VALUES(‘E0002’,’BTC(Lec5-10)’,’Spot test’,’CC002’);
Insert into exam VALUES(‘E0003’,’TTC(Mid)’,’Mid test’,’DI001’);
Insert into exam VALUES(‘E0004’,’MED(Mid)’,’Mid test’,’UC001’);
Insert into exam VALUES(‘E0005’,’MED(Final)’,’Final test’,’PC001’);

--support info–
Insert into support VALUES(‘Q1531’,2022-03-15,’AD001’);
Insert into support VALUES(‘Q1532’,2022-03-15,’AD002’);
Insert into support VALUES(‘Q1533’,2022-03-16,’AD003’);
Insert into support VALUES(‘Q1534’,2022-03-17,’AD004’);
Insert into support VALUES(‘Q1535’,2022-03-18,’AD005’);
```

7.0 performance Consideration.

- Navigation supports user scenarios gathered in the User Task Assessment phase
- Users can see all levels of navigation leading to any page.
- Navigation can be easily learned.
- Navigation is consistently placed and changes in response to rollover or selection.
- Terms like “previous/back” and “next” are replaced by more descriptive labels indicating the information to be found.
- Forms are short and on one page (its easy when collecting information in large scale)
- Links are underlined.
- Hired a professional to write help sections (a technical writer).
- Instructions are task-oriented and step-by-step.
- Terms or difficult concepts are linked to a glossary.
- Site has procedures in place to remove outdated information immediately (such as calendar events, which have passed)
- Administrator can reply for the questions and problems of the users.
- The lecturers and student can communicate issues with each other through messaging.
- The technician could maintain , update and generate system reports.
- System doesn’t fail to response to the users accordingly.

8.0 security Consideration.

- Keep Software And Plugins Up-To-Date(Take all software and plugin update requests seriously.)
- Add HTTPS and an SSL Certificate(To keep website safe, need a secure URL)
- Create a unique password for every new log in request
- Use a Secure Web Host
- Record User Access and Administrative Privileges
- Change CMS Default Settings (CMS settings can include adjusting control comments, user visibility, and permissions.)
- have a good backup solution
- Tighten Network Security
- Payments are given more security consideration

9.0 Individual contribution.

Student ID	Student Name	Contribution
IT21196942	Hettiarachchige.S.I	• Hypothetical scenario • Relational schema • SQL table create • SQL data input
IT21197864	Kahatapitiya.K.K.O.Y	• Performance consideration • SQL data input
IT21194276	Muthunayaka.J.P.V	• ER diagram • Raw Data that need to be input to the database table • Functional Requirements
IT21195020	Ramkpotha.R.R.M.L.G	• Introduction • Non-Functional Requirements
IT21195334	Athukoralage.D.T.A	• Security consideration