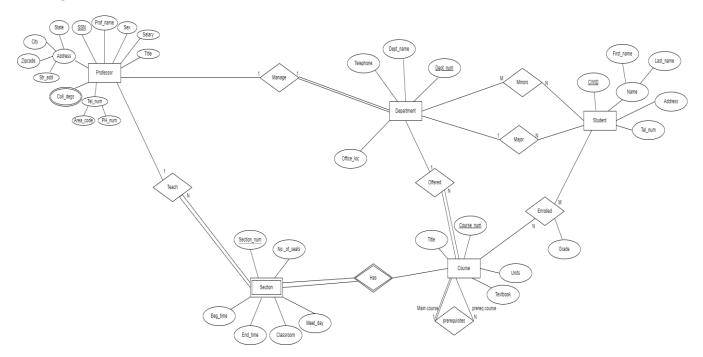
CPSC 332 FINAL PROJECT

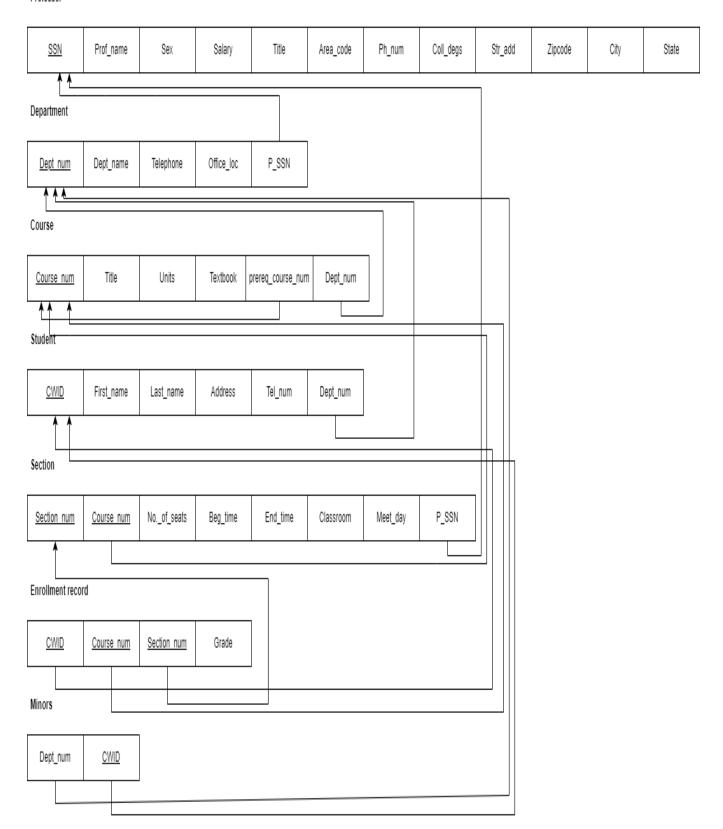
MARL KRISTOFFER RICO – CWID: 0526
ACCOUNT NO. CS332S30 (HTTP://ECS.FULLERTON.EDU/~CS332S30/)

ER DIAGRAM:



RELATIONAL MODEL:

Professor



```
CREATE TABLE Professor (
    SSN int(9) PRIMARY KEY,
    Prof_name varchar(50) not null,
    Title varchar(10) not null,
    Sex varchar(1) not null,
    Area_code int(3) not null,
    PH num int(7) not null,
    Salary real(10,2) not null,
    Coll_degs varchar(20) not null,
    St_add varchar(50) not null,
    Zipcode int(5) not null,
    City varchar(15) not null,
    State varchar(2) not null
);
CREATE TABLE Department (
    Dept num int(7) PRIMARY KEY,
    Dept name varchar(50) not null,
    Telephone varchar(11) not null,
    Office_loc varchar(50) not null,
    P SSN int not null,
    FOREIGN KEY(P SSN) REFERENCES Professor(SSN)
    ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE Course (
   Course_num varchar(30) PRIMARY KEY,
    Title varchar(50) not null,
    Units int(4) not null,
    Textbook varchar(50) not null,
    Dept num int not null,
    Prereq_CNum varchar(30),
    FOREIGN KEY(Dept num) REFERENCES Department(Dept num),
    FOREIGN KEY(Prereg CNum) REFERENCES Course(Course num)
);
CREATE TABLE Section (
    Section num int(2),
    No of seats int(3) not null,
    Beg_time TIME not null,
    End time TIME not null,
    Classroom varchar(20) not null,
    Meet day varchar(50) not null,
```

```
Course num varchar(30) not null,
    P SSN int not null,
    PRIMARY KEY(Section_num, Course_num),
    FOREIGN KEY(Course num) REFERENCES Course(Course num),
    FOREIGN KEY(P_SSN) REFERENCES Professor(SSN)
   ON DELETE CASCADE
);
CREATE TABLE Student (
    CWID int(9) PRIMARY KEY,
    First name varchar(30) not null,
    Last name varchar(30) not null,
    Address varchar(100) not null,
    Tel num varchar(10) not null,
    Dept num int not null,
    FOREIGN KEY(Dept num) REFERENCES Department(Dept num) /*major*/
    ON DELETE NO ACTION ON UPDATE CASCADE
);
CREATE TABLE Enrollment_rec (
   CWID int,
    Course_num varchar(30),
    Section_num int,
    Grade varchar(3) not null,
    PRIMARY KEY(CWID, Course_num, Section_num),
    FOREIGN KEY(CWID) REFERENCES Student (CWID),
    FOREIGN KEY(Course_num, Section_num) REFERENCES Section(Course_num,
Section num)
);
CREATE TABLE Minors (
    CWID int,
   Dept_num int,
   PRIMARY KEY(CWID),
    FOREIGN KEY(CWID) REFERENCES Student(CWID),
    FOREIGN KEY(Dept num) REFERENCES Department(Dept num)
```

```
insert into Professor(SSN, Prof name, Title, Sex, Area code, PH num, Salary,
                        Coll degs, St add, Zipcode, City, State )
                        VALUES("123456789", 'David Heckathorn', 'Lecturer', 'M',
'657', '4325324', '80000.00', 'MS, BA', '312 La Loma Dr.', '92704', 'Brea',
 CA');
insert into Department(Dept num, Dept name, Telephone, Office loc, P SSN)
                        VALUES('7843923', 'Department of Mathematics',
'6572783631', 'MH-154', (SELECT SSN from Professor where Title = 'Chair' and
Prof_name = 'Alfonso Agnew'));
insert into Course (Course num, Title, Units, Textbook, Dept num, Prereq CNum)
VALUES('CPSC353', 'INTRO TO COMPUTER SECURITY', '3', 'N/A', (SELECT Dept_num FROM
Department WHERE Dept_name = 'Computer Science'), (SELECT Course_num from Course
as c WHERE c.Course num = '')));
insert into Section(Section num, No of seats, Beg time, End time, Classroom,
Meet_day, Course_num, P_SSN) VALUES('04', '25', '18:00:00', '19:30:00', 'CS-112',
'TTh', (SELECT Course num from Course WHERE Course num = 'CPSC240'), (SELECT SSN
from Professor WHERE Prof name = 'David Heckathorn'));
insert into Student(CWID, First_name, Last_name, Address, Tel_num, Dept_num)
VALUES('873893884', 'Allen', 'Ringo', '591 Commonwealth Ave., Sylmar, CA',
'3239029384', (SELECT Dept num FROM Department WHERE Dept name = 'Computer
Science'));
insert into Enrollment_rec(CWID, Course_num, Section_num, Grade) VALUES((SELECT)
CWID from Student WHERE First name = 'Allen'), (SELECT Course num from Section
WHERE Course_num = 'CPSC240' and Section_num = '3'), (SELECT Section_num from
Section WHERE Course_num = 'CPSC240' and Section_num = '3'), 'A-' );
insert into Minors(CWID, Dept_num) VALUES();
/*USE TO UPDATE THE FIRST SET NULL FOR PREREQ*/
UPDATE Course SET Prereq CNum = (SELECT Course num from Course WHERE Course num =
'CPSC120') WHERE Course num = ('CPSC121');
TO SHOW HOW MANY SEATS ARE AVAILABLE IN A SECTION
Ex. need to check how many seats left check if what section is the student in and
subtract the no. of seats in order to give the seats left
SELECT No of seats - COUNT(CWID)
FROM Enrollment_rec as er, Section as s
WHERE er.Course num = s.Course num and er.Section num = s.Section num;
```

```
/* For the professor
A)SELECT Title, Classroom, Meet_day, Beg_time, End_time
WHERE s.P_SSN = '123456789' and s.Course_num = c.Course_num;
B)SELECT Grade, COUNT(Grade)
FROM Enrollment rec as ec
WHERE ec.Course_num = 'CPSC131' and ec.Section_num = '1'
GROUP BY Grade
ORDER BY Grade ASC;
/* For the students
A)SELECT s.Course_num, s.Section_num, Classroom, Meet_day, Beg_time, End_time,
COUNT(er.CWID)
FROM Section as s, Enrollment_rec as er
WHERE s.Course_num = 'CPSC240' and s.Course_num = er.Course_num and
er.Section_num = s.Section_num
GROUP BY Section num;
B) SELECT CWID, ec.Course_num, Title, Grade
FROM Enrollment rec as ec, Course as cr
WHERE ec.CWID = '887940526' and ec.Course_num = cr.Course_num;
```

MAIN PAGE:

index.html

```
<!DOCTYPE html>
<html>
   <head>
        <title>CPSC332 Project</title>
<body>
    <h1> Welcome To Our Project!</h1>
    <h2> Please select the appropriate button</h2>
    <a href="professor.html">
        <button style="width:200px; height:50px; border-radius:20px;font-</pre>
size:larger;">Click for Professor</button>
     </a>
      <br><br><br>>
      <a href="student.html">
        <button style="width:200px; height:50px; border-radius:20px; font-</pre>
size:larger;">Click for Student</button>
      </a>
</body>
</html>
```

PROFESSOR INTERFACE:

professor.html

```
<!DOCTYPE html>
<html>
   <head>
        <title>CPSC332 Project</title>
<body>
   <form method="POST" action="professora.php">
            <text> Please enter your SSN</text>
        </div>
       <input type="text" name="SSN">
       <input type="submit"/>
      </form>
   <br>
   <form method="POST" action="professorb.php">
       <div>
            <text> Please enter a Course Number and Section Number</text>
        </div>
        <input type="text" name="cno">
       <input type="text" name="secno">
       <input type="submit"/>
       </form>
       <form>
       <input type="button" value="Go back!" onclick="history.back()">
       </form>
</body>
</html>
```

```
<html>
   <body>
       <?php
       $link = mysqli_connect('mariadb', 'cs332s30', 'iDl06Vq9','cs332s30');
       if (!$link) {
            die('Could not connect: ' . mysql_error());
       $SSN = $ POST["SSN"];
       $query = "SELECT Title, Classroom, Meet_day, Beg_time, End_time
                  FROM Section as s, Course as c
                 WHERE s.P_SSN = '".$SSN."' and s.Course_num = c.Course_num;";
       $result = $link->query($query);
       if ($result->num rows > 0) {
           // output data of each row
            echo "SSN - " .$SSN. "<br>>";
            echo "CLASS SCHEDULE: <br>";
           while($row = $result->fetch assoc()) {
               echo "Title: " . $row["Title"]. " - Classroom: "
.$row["Classroom"]. " - Meeting days: " . $row["Meet_day"]. " - Start time: " .
$row["Beg_time"]. " - End time: " . $row["End time"]. "<br/>;
            echo "<br>";
       else {
            echo "No results found! <br>>";
       $result->free_result();
       $link->close();
       <form>
       <input type="button" value="Go back!" onclick="history.back()">
       </form>
    </body>
/html>
```

professorb.php (note: used when Course number and Section number is provided)

```
<html>
   <body>
       <?php
       $link = mysqli_connect('mariadb', 'cs332s30', 'iDl06Vq9','cs332s30');
       if (!$link) {
            die('Could not connect: ' . mysql_error());
       $CNO = $_POST['cno'];
       $SECNO = $_POST['secno'];
       $query = "SELECT Grade, COUNT(Grade)
                 FROM Enrollment rec as ec
                 WHERE ec.Course_num = '".$CNO."' and ec.Section_num =
".$SECNO."
                 GROUP BY Grade
                 ORDER BY Grade ASC;";
       $result = $link->query($query);
       if ($result->num_rows > 0) {
           // output data of each row
           echo "Course Number: " .$CNO. " Section Number: "
.$SECNO. "<br>>";
           while($row = $result->fetch_assoc()) {
               echo "Grade: " . $row["Grade"]. " - No. of students: "
.$row["COUNT(Grade)"]. "<br>";
           echo "<br>";
       else {
           echo "No results found! <br>>";
       $result->free_result();
       $link->close();
       <form>
       <input type="button" value="Go back!" onclick="history.back()">
       </form>
   </body>
</html>
```

STUDENT INTERFACE:

student.html

```
<!DOCTYPE html>
<html>
   <head>
        <title>CPSC332 Project</title>
<body>
    <form method="POST" action="studenta.php">
            <text> Student: Please enter a Course Number </text>
        </div>
       <input type="text" name="cnum">
       <input type="submit"/>
       </form>
       <br>
       <form method="POST" action="studentb.php">
        <div>
            <text> Student: Please enter your CWID</text>
        <input type="text" name="cwid">
        <input type="submit"/>
       </form>
       <form>
       <input type="button" value="Go back!" onclick="history.back()">
       </form>
</body>
</html>
```

```
<html>
   <body>
       <?php
       $link = mysqli_connect('mariadb', 'cs332s30','iDl06Vq9','cs332s30');
       if (!$link) {
            die('Could not connect: ' . mysql_error());
        $CNUM = $_POST["cnum"];
        $query = "SELECT s.Course num, s.Section num, Classroom, Meet day,
Beg time, End time, COUNT(er.CWID)
                  FROM Section as s, Enrollment rec as er
                 WHERE s.Course num = er.Course num and er.Section num =
s.Section_num and s.Course_num = '".$CNUM."'
                 GROUP BY Section num;";
        $result = $link->query($query);
        if ($result->num_rows > 0) {
           // output data of each row
            echo "Course Number: " .$CNUM. "<br>>";
            while($row = $result->fetch_assoc()) {
                echo "Section number: " .$row["Section num"]. " - Classroom: " .
$row["Classroom"]. " - Start: " .$row["Beg_time"].
                   "- End: " .$row["End time"]. " - Enrolled: "
.$row["COUNT(er.CWID)"]. "<br>";
            echo "<br>";
       else {
            echo "No results found! <br>>";
        $result->free result();
        $link->close();
        <form>
        <input type="button" value="Go back!" onclick="history.back()">
        </form>
    </body>
</html>
```

studentb.php (note: used when CWID is provided)

```
<html>
   <body>
       <?php
       $link = mysqli_connect('mariadb', 'cs332s30','iDl06Vq9','cs332s30');
       if (!$link) {
            die('Could not connect: ' . mysql_error());
       $CWID = $_POST["cwid"];
       $query = "SELECT CWID, ec.Course num, Title, Grade FROM Enrollment rec as
ec, Course as cr
                 WHERE ec.Course num = cr.Course num and ec.CWID = " .$CWID;
       $result = $link->query($query);
       if ($result->num rows > 0) {
           // output data of each row
            echo "CWID - " .$CWID. "<br>>";
            while($row = $result->fetch_assoc()) {
               echo "Course number: " . $row["Course_num"]. " - Title: "
.$row["Title"]. " - Grade: " . $row["Grade"]. "<br>";
            echo "<br>";
       else {
            echo "No results found! <br>>";
        }
       $result->free_result();
       $link->close();
       <input type="button" value="Go back!" onclick="history.back()">
        </form>
    </body>
</html>
```

SCREENSHOTS:

MAIN PAGE (index.html):



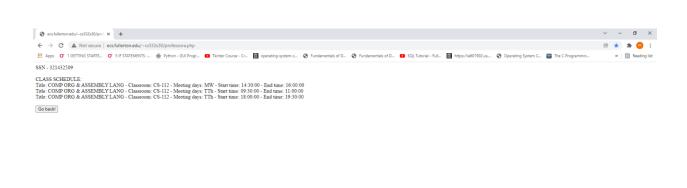
Professor interface (professor.html):



PART 1 (SSN IS PROVIDED):

PROFESSOR INPUT & OUTPUT (WITH RESULITS):





PROFESSOR INPUT & OUTPUT (WITHOUT RESULITS):





PART 2 (COURSE NUMBER AND SECTION NUMBER IS PROVIDED):

PROFESSOR INPUT & OUTPUT (WITH RESULTS):





PROFESSOR INPUT & OUTPUT (WITHOUT RESULTS):





Student interface (student.html):



PART 1 (COURSE NUMBER IS PROVIDED):

STUDENT INPUT & OUTPUT (WITH RESULTS):





STUDENT INPUT & OUTPUT (WITHOUT RESULTS):





PART 2 (CWID IS PROVIDED):

STUDENT INPUT & OUTPUT (WITH RESULTS):





STUDENT INPUT & OUTPUT (WITHOUT RESULTS):



