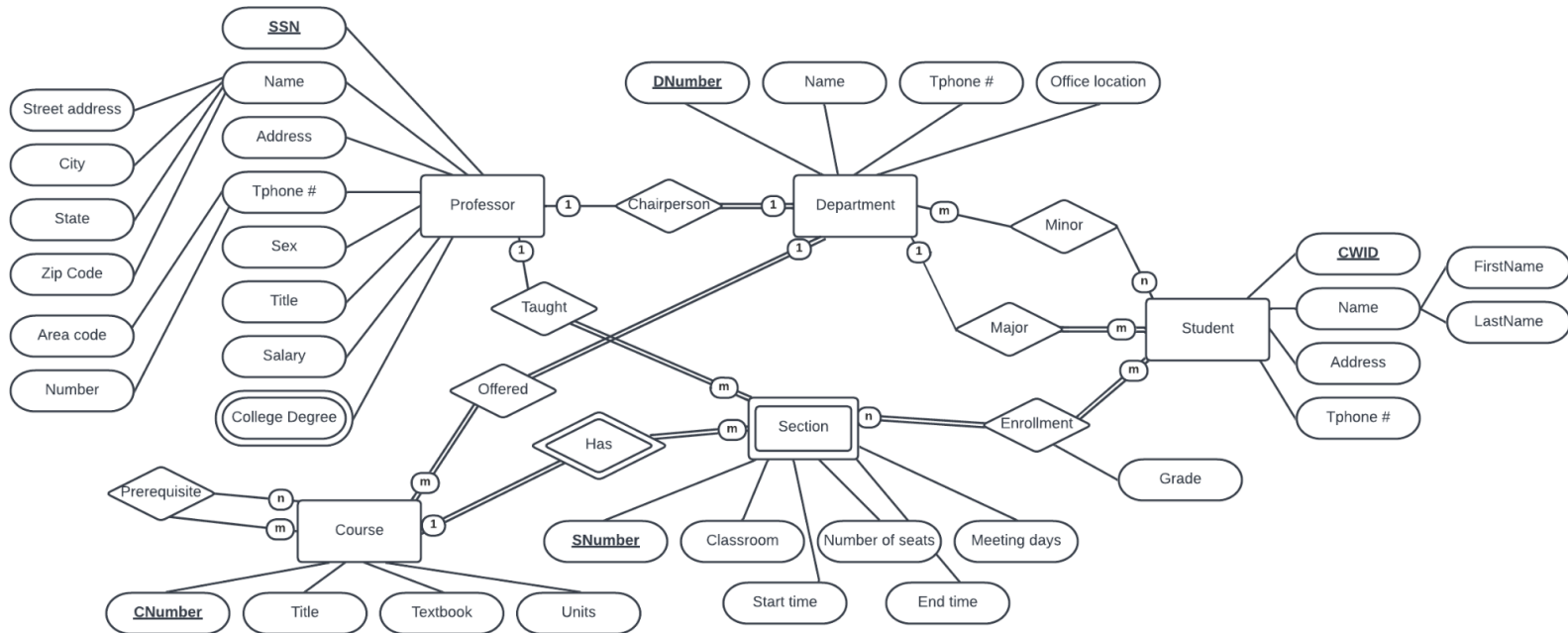# CPSC 332 Project Report

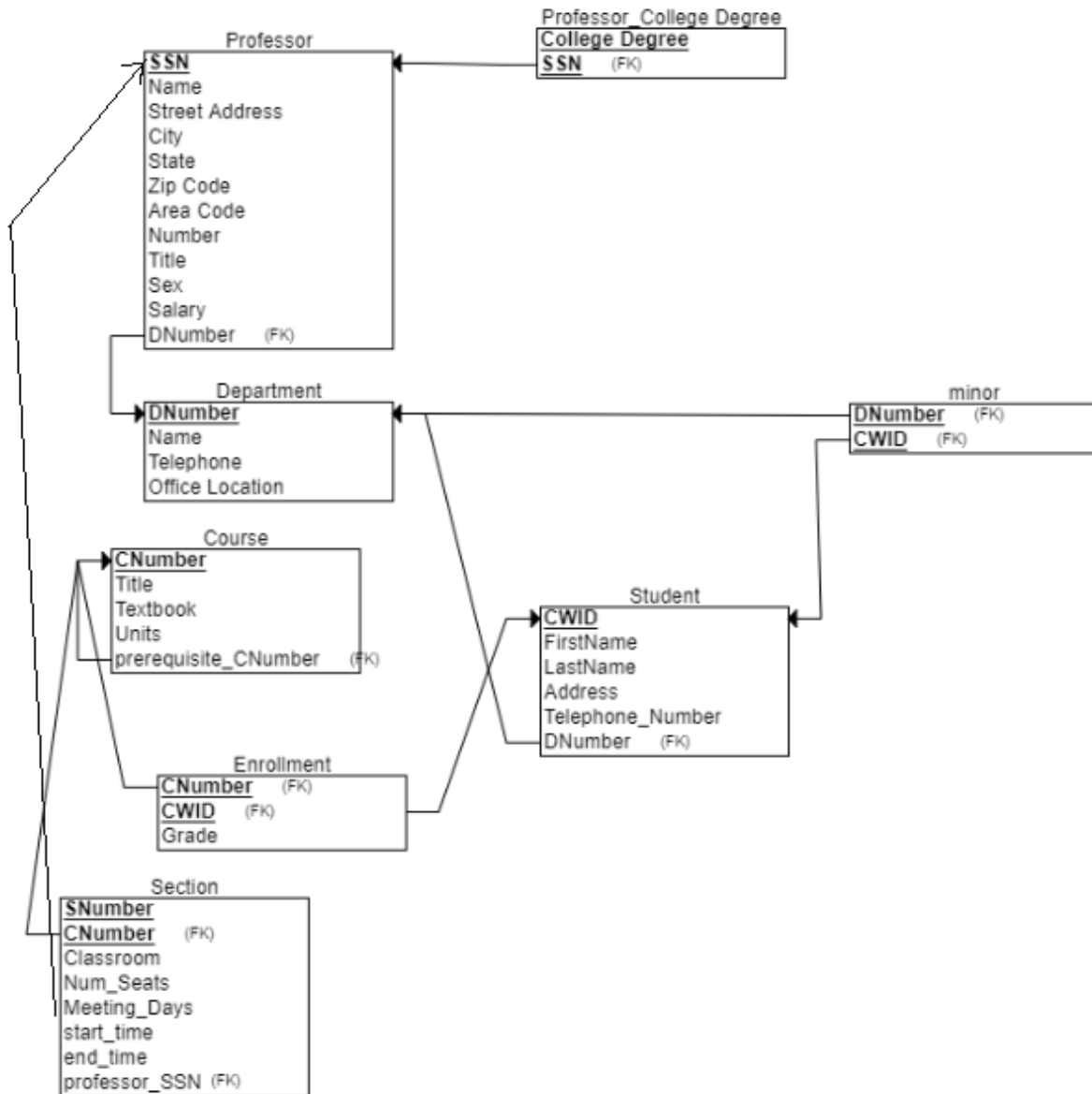## Team Members

Yamato Eguchi
Akshat Javiya
Alex Ly

ER Diagram

assumptions:
- every department must offer at least one course
- every student must be enrolled in atleast one course
- every course has atleast one course available
- one professor can only be a chairperson for maximum one department

Relational Model

Professor_College Degree
- **College Degree**
- **SSN** (FK)

Professor
- **SSN**
- Name
- Street Address
- City
- State
- Zip Code
- Area Code
- Number
- Title
- Sex
- Salary
- DNumber (FK)

Department
- **DNumber**
- Name
- Telephone
- Office Location

minor
- **DNumber** (FK)
- **CWID** (FK)

Course
- **CNumber**
- Title
- Textbook
- Units
- prerequisite_CNumber (FK)

Student
- **CWID**
- FirstName
- LastName
- Address
- Telephone_Number
- DNumber (FK)

Enrollment
- **CNumber** (FK)
- **CWID** (FK)
- Grade

Section
- **SNumber**
- **CNumber** (FK)
- Classroom
- Num_Seats
- Meeting_Days
- start_time
- end_time
- professor_SSN (FK)

Project Source Code

Connection.php

```php
<html>
  <body>
    <?php
      $hostname = "mariadb";
      $username = "cs332g10";
      $password = "OR0F24qg";
      $link = mysqli_connect($hostname, $username, $password, $username);
      if (!$link) {
        echo "<p>Not connected</p>";
        die('Could not connect: ' . mysql_error());
      }
    ?>
  </body>
</html>
```

Professor.php

```php
<?php
    include 'connection.php';

    $result = null;

    if($_POST['form-identifier'] == 0) {
        $flag = 1;

        // professor ssn query
        $query = "SELECT p.name, p.title, s.classroom, s.meeting_days,
s.start_time, s.end_time FROM professor p, section s WHERE p.ssn =" .
$_POST["professor_ssn"] . " AND s.professor_teaching =" .
$_POST["professor_ssn"] . ";";
        $result = $link->query($query);

    } else if ($_POST['form-identifier'] == 1) {
        $flag = 2;

        $sec = (int) $_POST["section_num"];
        $query = "SELECT e.grade, count(*) AS number FROM enrollment e
WHERE e.enroll_course_num ='{$_POST["course_num"]}' AND
e.enroll_section_num =" . $sec . " GROUP BY e.grade;";
```

```php
        $result = $link->query($query);

        if (!$result)
        $link->close();
    } else {
        echo "error";
    }
?>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>

    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.c
ss" rel="stylesheet"
integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2
F9CUG65" crossorigin="anonymous">
</head>
<body>
    <div class = "container d-flex flex-column w-50 align-items-center
mt-5">
        <h2 class="mb-5">Query Result:</h2>
          <table class="table">

            <?php if ($result && $flag == 1): ?>
                <tr>
                    <th class="col">Name</th>
                    <th class="col">Title</th>
                    <th class="col">Classroom</th>
                    <th class="col">Meeting days</th>
                    <th class="col">Starting time</th>
                    <th class="col">End Time</th>
                </tr>
                <?php while($row = $result->fetch_assoc()): ?>
                    <tr>
                        <td><?php echo $row["name"] ?></td>
                        <td><?php echo $row["title"] ?></td>
```

```php
                <td><?php echo $row["classroom"] ?></td>
                <td><?php echo $row["meeting_days"] ?></td>
                <td><?php echo $row["start_time"] ?></td>
                <td><?php echo $row["end_time"] ?></td>
            </tr>
        <?php endwhile; ?>
    <?php elseif ($result && $flag == 2): ?>
        <tr>
            <th>Grade</th>
            <th>Number of Students</tr>
        </tr>
        <?php while($row = $result->fetch_assoc()): ?>
            <tr>
                <td><?php echo $row["grade"] ?></td>
                <td><?php echo $row["number"] ?></td>
            </tr>
        <?php endwhile; ?>
    <?php endif; ?>

    </table>
<div>

</body>
</html>
</body>
</html>
```

Student.php:

```php
<?php
    include 'connection.php';

    $result = null;
    $flag = 0;

    if($_POST['form-identifier'] == 1) {
        $flag = 1;
        $query = "SELECT e.enroll_course_num, s.f_name, s.l_name, s.cwid,
e.grade
                FROM enrollment as e, student as s
                WHERE e.student_cwid = {$_POST["student_cwid"]} and
```

```php
            e.student_cwid = s.cwid;";

        $result = $link->query($query);
    } else if ($_POST['form-identifier'] == 0) {
        $flag = 2;
        $query = "SELECT s.section_num, s.classroom, s.meeting_days,
s.start_time, s.end_time, COUNT(*) AS num_of_students
                    FROM section AS s, enrollment AS e
                    WHERE s.course_section_num ='{$_POST["course_num"]}' AND
s.course_section_num = e.enroll_course_num AND s.section_num =
e.enroll_section_num
                    GROUP BY s.section_num;";
        $result = $link->query($query);
    } else {
        echo "error";
    }
    $link->close();
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>

    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.c
ss" rel="stylesheet"
integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2
F9CUG65" crossorigin="anonymous">
</head>
<body>
    <div class = "container d-flex flex-column w-50 align-items-center
mt-5">
        <h2 class="mb-5">Query Result:</h2>
        <table class="table">

            <?php if ($result && $flag == 1): ?>
                <tr>
                    <th class="col">Course Name</th>
                    <th class="col">First Name</th>
```

```php
                    <th class="col">Last Name</th>
                    <th class="col">CWID</th>
                    <th class="col">Grade</th>
                </tr>
                <?php while($row = $result->fetch_assoc()): ?>
                    <tr>
                        <td><?php echo $row["enroll_course_num"] ?></td>
                        <td><?php echo $row["f_name"] ?></td>
                        <td><?php echo $row["l_name"] ?></td>
                        <td><?php echo $row["cwid"] ?></td>
                        <td><?php echo $row["grade"] ?></td>
                    </tr>
                <?php endwhile; ?>
            <?php elseif ($result && $flag == 2): ?>
                <tr>
                    <th>Section Number</th>
                    <th>Classroom</th>
                    <th>Meeting Days</th>
                    <th>Start Time</th>
                    <th>End Time</th>
                    <th>Number of Students</th>
                </tr>
                <?php while($row = $result->fetch_assoc()): ?>
                    <tr>
                        <td><?php echo $row["section_num"] ?></td>
                        <td><?php echo $row["classroom"] ?></td>
                        <td><?php echo $row["meeting_days"] ?></td>
                        <td><?php echo $row["start_time"] ?></td>
                        <td><?php echo $row["end_time"] ?></td>
                        <td><?php echo $row["num_of_students"] ?></td>

                    </tr>
                <?php endwhile; ?>
            <?php endif; ?>

        </table>
    <div>
</body>
</html>
```

Create_table.sql:

```sql
CREATE TABLE professor (
  ssn char(10) NOT NULL,
  name varchar(45) NOT NULL,
  street_name varchar(20) NOT NULL,
  city varchar(20) NOT NULL,
  state char(2) NOT NULL,
  zipcode char(5) NOT NULL,
  area_code char(3) NOT NULL,
  tphone_num char(7) NOT NULL,
  salary int(10) NOT NULL,
  title varchar(20) NOT NULL,
  PRIMARY KEY (ssn)
);
CREATE TABLE department (
  dept_num char(4) NOT NULL,
  dept_name varchar(100) NOT NULL,
  tphone_num char(10) NOT NULL,
  office_location varchar(6) NOT NULL,
  chair_person_ssn char(10) NOT NULL,
  PRIMARY KEY (dept_num),
  KEY department_ibfk_1 (chair_person_ssn),
  CONSTRAINT department_ibfk_1 FOREIGN KEY (chair_person_ssn) REFERENCES
professor (ssn) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE course (
  course_num char(9) NOT NULL,
  title varchar(100) NOT NULL,
  units tinyint(1) NOT NULL,
  textbook varchar(100) DEFAULT NULL,
  offered_by char(4) NOT NULL,
  PRIMARY KEY (course_num),
  KEY course_cbfk_1 (offered_by),
  CONSTRAINT course_cbfk_1 FOREIGN KEY (offered_by) REFERENCES department
(dept_num) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE student (
  cwid CHAR(9) NOT NULL,
  f_name VARCHAR(20) NOT NULL,
  l_name VARCHAR(20) NOT NULL,
```

```sql
    address VARCHAR(100) NOT NULL,
    tphone_num VARCHAR(10) NOT NULL,
    major CHAR(4) NOT NULL,
    PRIMARY KEY (cwid),
    KEY student_ibfk_1 (major),
    CONSTRAINT student_ibfk_1 FOREIGN KEY (major) REFERENCES department
(dept_num) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE section (
    course_section_num CHAR(9) NOT NULL,
    section_num INT(2) NOT NULL,
    start_time TIME,
    end_time TIME,
    classroom VARCHAR(6) NOT NULL,
    seats_avail INT(3) NOT NULL,
    professor_teaching CHAR(9) NOT NULL,
    meeting_days VARCHAR(45),
    PRIMARY KEY (course_section_num, section_num),
    KEY section_cbfk_1 (course_section_num),
    CONSTRAINT section_cbfk_1 FOREIGN KEY (course_section_num) REFERENCES
course (course_num) ON DELETE CASCADE ON UPDATE CASCADE,
    KEY section_cbfk_2 (professor_teaching),
    CONSTRAINT section_cbfk_2 FOREIGN KEY (professor_teaching) REFERENCES
professor (ssn) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE enrollment (
    student_cwid CHAR(9) NOT NULL,
    enroll_course_num CHAR(9) NOT NULL,
    enroll_section_num INT(2) NOT NULL,
    grade
ENUM('A+','A','A-','B+','B','B-','C+','C','C-','D+','D','D-','F','W'),
    PRIMARY KEY (student_cwid, enroll_course_num, enroll_section_num),
    KEY enrollment_sbfk_1 (student_cwid),
    CONSTRAINT enrollment_sbfk_1 FOREIGN KEY (student_cwid) REFERENCES
student (cwid) ON DELETE CASCADE ON UPDATE CASCADE,
    KEY enrollment_sbfk_2 (enroll_course_num, enroll_section_num),
    CONSTRAINT enrollment_sbfk_2 FOREIGN KEY (enroll_course_num,
enroll_section_num) REFERENCES section (course_section_num, section_num) ON
DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE college_degree (
    professor_ssn VARCHAR(10) NOT NULL,
    degree VARCHAR(100) NOT NULL,
```

```sql
  PRIMARY KEY (professor_ssn),
  KEY college_degree_ibfk_1 (professor_ssn),
  CONSTRAINT college_degree_ibfk_1 FOREIGN KEY (professor_ssn) REFERENCES
professor (ssn) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE minor (
  student_id CHAR(9) NOT NULL,
  minor_department_number CHAR(4) NOT NULL,
  PRIMARY KEY (student_id, minor_department_number),
  KEY minor_mbfk_1 (student_id),
  CONSTRAINT minor_mbfk_1 FOREIGN KEY (student_id) REFERENCES student
(cwid) ON DELETE CASCADE ON UPDATE CASCADE,
  KEY minor_mbfk_2 (minor_department_number),
  CONSTRAINT minor_mbfk_2 FOREIGN KEY (minor_department_number) REFERENCES
department (dept_num) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE prerequisite_course (
  course_number CHAR(9) NOT NULL,
  pre_course_number CHAR(9) NOT NULL,
  KEY prerequisite_course_pbfk_1 (course_number),
  CONSTRAINT prerequisite_course_pbfk_1 FOREIGN KEY (course_number)
REFERENCES course (course_num) ON DELETE CASCADE ON UPDATE CASCADE,
  KEY prerequisite_course_pbfk_2 (pre_course_number),
  CONSTRAINT prerequisite_course_pbfk_2 FOREIGN KEY (pre_course_number)
REFERENCES course (course_num) ON DELETE CASCADE ON UPDATE CASCADE
);
```

Insert_table.sql

```sql
INSERT INTO `professor` (`ssn`, `name`, `street_name`, `city`, `state`,
`zipcode`, `area_code`, `tphone_num`, `salary`, `title`) VALUES
('121212121', 'Shawn Wang', '800 N. College Blvd.', 'Fullerton', 'CA',
'92831', '562', '1212121', '190000', 'Chair Person');

INSERT INTO `professor` (`ssn`, `name`, `street_name`, `city`, `state`,
`zipcode`, `area_code`, `tphone_num`, `salary`, `title`) VALUES
('232323232', 'Stephen May', '801 S. Nutwood Dr.', 'Yorba Linda', 'CA',
'92888', '626', '2323232', '100000', 'Associate Professor');

INSERT INTO `professor` (`ssn`, `name`, `street_name`, `city`, `state`,
`zipcode`, `area_code`, `tphone_num`, `salary`, `title`) VALUES
```

```sql
('343434343', 'Floyd Holiday', '295 W. Chapman Ave.', 'Irvine', 'CA',
'92620', '949', '3434343', '250000', 'Chair Person');

INSERT INTO `department` (`dept_num`, `dept_name`, `tphone_num`,
`office_location`, `chair_person_ssn`) VALUES ('CPSC', 'Department of
Engineering and Computer Science', '1111111111', 'CS450', '121212121');

INSERT INTO `department` (`dept_num`, `dept_name`, `tphone_num`,
`office_location`, `chair_person_ssn`) VALUES ('MATH', 'Department of
Mathematics', '2222222222', 'MH502', '343434343');

INSERT INTO `student` (`cwid`, `f_name`, `l_name`, `address`, `tphone_num`,
`major`) VALUES ('111111111', 'yamato', 'eguchi', '111 Fullerton Dr.,
Fullerton, CA, 92831', '1111111111', 'CPSC');

INSERT INTO `student` (`cwid`, `f_name`, `l_name`, `address`, `tphone_num`,
`major`) VALUES ('222222222', 'akshat', 'javiya', '222 Campus Ave., Pomona,
CA, 92312', '2222222222', 'MATH');

INSERT INTO `student` (`cwid`, `f_name`, `l_name`, `address`, `tphone_num`,
`major`) VALUES ('333333333', 'alex', 'nguyen', '333 Olympia Dr., Aneheim,
CA, 92114', '3333333333', 'CPSC');

INSERT INTO `student` (`cwid`, `f_name`, `l_name`, `address`, `tphone_num`,
`major`) VALUES ('444444444', 'Drako', 'Sniper', '444 Bastencherry Rd.,
Placentia, CA, 92664', '4444444444', 'MATH');

INSERT INTO `student` (`cwid`, `f_name`, `l_name`, `address`, `tphone_num`,
`major`) VALUES ('555555555', 'Jasmine', 'Gonzalez', '555 Yorba Linda
Blvd., Aneheim, CA, 92334', '5555555555', 'MATH');

INSERT INTO `student` (`cwid`, `f_name`, `l_name`, `address`, `tphone_num`,
`major`) VALUES ('666666666', 'Gordan', 'Jordan', '666 Azusa Ave., Diamond
Bar, CA, 93489', '6666666666', 'CPSC');

INSERT INTO `student` (`cwid`, `f_name`, `l_name`, `address`, `tphone_num`,
`major`) VALUES ('777777777', 'Kristine', 'Kim', '777 Beach Blvd.,
Huntington Beach, CA, 98765', '7777777777', 'CPSC');

INSERT INTO `student` (`cwid`, `f_name`, `l_name`, `address`, `tphone_num`,
`major`) VALUES ('888888888', 'James', 'Harden', '888 Santiago Hills,
Torrance, CA, 97854', '8888888888', 'MATH');
```

```sql
INSERT INTO `course` (`course_num`, `title`, `units`, `offered_by`) VALUES
('CPSC120', 'Intro to Computer Science', '3', 'CPSC');

INSERT INTO `course` (`course_num`, `title`, `units`, `offered_by`) VALUES
('MATH150A', 'Calculus I', '5', 'MATH');

INSERT INTO `course` (`course_num`, `title`, `units`, `offered_by`) VALUES
('CPSC332', 'Database Management', '3', 'CPSC');

INSERT INTO `course` (`course_num`, `title`, `units`, `offered_by`) VALUES
('MATH338', 'Statistics Applied to Natural Data', '4', 'MATH');

INSERT INTO `section`
(`course_section_num`,`section_num`,`start_time`,`end_time`,`classroom`,`seats_avail`,`professor_teaching`,`meeting_days`) VALUES
('CPSC120',1,'08:00:00','09:45:00','CS115',32,'232323232','Tuesday,Thursday');

INSERT INTO `section`
(`course_section_num`,`section_num`,`start_time`,`end_time`,`classroom`,`seats_avail`,`professor_teaching`,`meeting_days`) VALUES
('CPSC120',2,'10:00:00','11:45:00','CS115',32,'232323232','Monday,Wendesday');

INSERT INTO `section`
(`course_section_num`,`section_num`,`start_time`,`end_time`,`classroom`,`seats_avail`,`professor_teaching`,`meeting_days`) VALUES
('CPSC332',1,'14:30:00','15:45:00','CS111',24,'121212121','Tuesday,Thursday');

INSERT INTO `section`
(`course_section_num`,`section_num`,`start_time`,`end_time`,`classroom`,`seats_avail`,`professor_teaching`,`meeting_days`) VALUES
('MATH150A',1,'19:00:00','21:45:00','MH432',24,'343434343','Friday');

INSERT INTO `section`
(`course_section_num`,`section_num`,`start_time`,`end_time`,`classroom`,`seats_avail`,`professor_teaching`,`meeting_days`) VALUES
('MATH338',1,'08:30:00','09:45:00','MH321',12,'343434343','Monday,Wednesday,Friday');

INSERT INTO `section`
(`course_section_num`,`section_num`,`start_time`,`end_time`,`classroom`,`se
```

```sql
ats_avail`,`professor_teaching`,`meeting_days`) VALUES
('MATH338',2,'19:00:00','21:45:00','MH321',12,'343434343','Monday');


INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('111111111', 'CPSC120', '1', 'A+');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('111111111', 'MATH338', '2', 'B-');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('111111111', 'CPSC332', '1', 'C');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('222222222', 'CPSC120', '2', 'A-');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('222222222', 'MATH150A', '1', 'B+');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('222222222', 'CPSC332', '1', 'C+');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('333333333', 'MATH150A', '1', 'A');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('333333333', 'CPSC332', '1', 'B');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('333333333', 'MATH338', '1', 'C-');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('444444444', 'CPSC120', '1', 'B+');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('444444444', 'MATH150A', '1', 'C-');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('555555555', 'MATH150A', '1', 'D+');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('555555555', 'CPSC120', '2', 'B-');
```

```sql
INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('666666666', 'MATH150A', '1', 'C');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('666666666', 'CPSC120', '1', 'D-');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('777777777', 'MATH338', '2', 'C+');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('777777777', 'CPSC332', '1', 'D');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('777777777', 'CPSC120', '1', 'A-');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('888888888', 'MATH150A', '1', 'B+');

INSERT INTO `enrollment` (`student_cwid`, `enroll_course_num`,
`enroll_section_num`, `grade`) VALUES ('888888888', 'CPSC332', '1', 'D-');
```

Index.html

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2
F9CUG65" crossorigin="anonymous">
<html>
<body>
    <div class="container d-flex flex-column align-items-center mt-5">
        <head>
            <h2>CPSC 332 Term Project</h2>
        </head>
        <div class="d-flex flex-column align-items-start m-3" style="width:
500px">
            <h3>Teacher Query</h3>
            <form action="/~cs332g10/professor.php" method="POST"
style="width:100%">
```

```html
                <label for="professor_ssn">SSN:</label><br>
                <input type="text" id="professor_ssn" name="professor_ssn"
required style="width:100%">
                <input type="text" name="form-identifier" value="0"
style="display: none">
                <br><br>
                <div class="d-flex flex-column align-items-end">
                    <button type="submit" class="btn
btn-primary">Submit</button>
                </div>
            </form>
            <br>
            <form action="/~cs332g10/professor.php" method="POST"
style="width:100%">
                <label for="professor_course">Course #:</label><br>
                <input type="text" id="professor_course" name="course_num"
required style="width:100%">
                <br>
                <label for="professor_section">Section #:</label><br>
                <input type="text" id="professor_section"
name="section_num" required style="width:100%">
                <input type="text" name="form-identifier" value="1"
style="display: none">
                <br><br>
                <div class="d-flex flex-column align-items-end">
                    <button type="submit" class="btn
btn-primary">Submit</button>
                </div>
            </form>
        </div>
        <br>
        <hr>
        <br>
        <div class="d-flex flex-column align-items-start m-3" style="width:
500px">
            <h3>Student Query</h3>
            <form action="/~cs332g10/student.php" method="POST"
style="width:100%">
                <label for="student_course">Course #:</label><br>
                <input type="text" id="student_course" name="course_num"
required style="width:100%">
                <input type="text" name="form-identifier" value="0"
style="display: none">
```

```html
            <br><br>
            <div class="d-flex flex-column align-items-end">
                <button type="submit" class="btn
btn-primary">Submit</button>
            </div>
        </form>
        <br>
        <form action="/~cs332g10/student.php" method="POST"
style="width:100%">
            <label for="student_cwid">CWID:</label><br>
            <input type="text" id="student_cwid" name="student_cwid"
required style="width:100%">
            <input type="text" name="form-identifier" value="1"
style="display: none">
            <br><br>
            <div class="d-flex flex-column align-items-end">
                <button type="submit" class="btn
btn-primary">Submit</button>
            </div>
        </form>
    </div>
  </div>
</body>
</html>
```

Interface Screenshot

CPSC 332 Term Project

Teacher Query

SSN:

[   ]

[Submit]

Course #:

[   ]

Section #:

[   ]

[Submit]

Student Query

Course #:

[   ]

[Submit]

CWID:

[   ]

[Submit]

Sample Run Screenshot

The screenshots of sample runs of the system, including inputs and outputs.

Teacher query 1:

Input:

CPSC 332 Term Project

Teacher Query

SSN:

121212121

Submit

Course #:

Section #:

Submit

Output:

Query Result:

Name	Title	Classroom	Meeting days	Starting time	End Time
Shawn Wang	Chair Person	CS111	Tuesday,Thursday	14:30:00	15:45:00

Teacher query 2:

Input:

CPSC 332 Term Project

Teacher Query

SSN:

[   ]

[Submit]

Course #:

[CPSC120   ]

Section #:

[1   ]

[Submit]

Output:

Query Result:

Grade	Number of Students
A+	1
A-	1
B+	1
D-	1

Student query 1:

Input:

Student Query

Course #:

Math338

Submit

CWID:

Submit

Output:

Query Result:

Section Number	Classroom	Meeting Days	Start Time	End Time	Number of Students
1	MH321	Monday,Wednesday,Friday	08:30:00	09:45:00	1
2	MH321	Monday	19:00:00	21:45:00	2

Student query 2:

Input:

Student Query

Course #:

Submit

CWID:

111111111

Submit

Output:

Query Result:

Course Name	First Name	Last Name	CWID	Grade
CPSC120	yamato	eguchi	111111111	A+
CPSC332	yamato	eguchi	111111111	C
MATH338	yamato	eguchi	111111111	B-