### Things need to be done for Phase 2

#### 1README.txt

- Instructions for how to install and run your project.
- Include team member names.

### 2DB2-tables.sql

- The professor's predefined schema (DO NOT modify course, instructor, time\_slot tables).
- Your CREATE TABLE and INSERT queries.

#### 3 index.html

- Frontend for user interaction (No JavaScript, only plain HTML & PHP).
- Links to student.php, admin.php, etc.

### 4 student.php

- Handles student account creation.
- Allows account updates.

### 5 admin.php

- Allows admin to assign instructors & schedule sections.
- Checks scheduling constraints (max 2 sections per instructor, consecutive slots).

### 6 student\_register.php

- Handles student course registration.
- Checks prerequisite conditions & seat availability (max 15 students per section).

### 7student\_history.php

• Shows student's enrolled courses, total credits, GPA calculation.

### 8config.php

MySQL database connection file.

#### 9demo\_video.mp4

- 10-15 min video demo of your project.
- Upload to YouTube or submit .mp4 file.

### **Submission Instructions**

1 Submit via UML Command

bash

CopyEdit

submit malamin 3100-S25-phase2 phase2\_submission/

#### 2 Upload Video Demo

Post a YouTube link or MP4 file on the discussion board.

#### 3 Live Demonstration on March 31

Show your working system in class.

### Final Submission Folder Structure

### phase2\_submission

README.txt Instructions for setup & execution DB2-tables.sql SQL script for tables & sample data

index.html User interface

student.php Handles student account creation admin.php Admin assigns instructor & sections

student\_register.php Student registers for a course

student\_history.php Student views GPA & course history

config.php Database connection

demo\_video.mp4 Pre-recorded demo (10-15 min)

### 1README.txt

File: README.txt (This file contains instructions for setup & execution)

#### Phase 2: University Course Management System

#### Team Members:

- 1. [Your Name]
- 2. [Team Member 2 (if applicable)]

#### Installation & Setup:

- 1. Install MySQL and Apache (using XAMPP, WAMP, or standalone).
- 2. Import the database schema:
  - Open MySQL or PhpMyAdmin.
  - Run the script: `DB2-tables.sql`.
- 3. Place all PHP & HTML files in the web server directory (e.g., 'htdocs' for XAMPP).
- 4. Update database credentials in `config.php` (if needed).
- 5. Start the Apache & MySQL servers.
- 6. Open 'index.html' in a browser to use the system.

#### Features:

- Student account creation & update.
- Course enrollment system with prerequisites & seat limits.
- Admin assigns instructors & schedules sections.
- Students view their course history & GPA.
- Instructor access to student records.
- TA and grader assignments based on eligibility.

#### Running the Demo:

- Open 'index.html' in a web browser.
- Follow the form instructions to interact with the database.
- Video demo included ('demo\_video.mp4').

## 2DB2-tables.sql

File: DB2-tables.sql (This script sets up the database and inserts sample data)

```
CREATE DATABASE DB2;
USE DB2;
-- Account Table
CREATE TABLE account (
email VARCHAR(50) PRIMARY KEY,
password VARCHAR(20) NOT NULL,
type VARCHAR(20)
);
```

```
-- Department Table
CREATE TABLE department (
  dept_name VARCHAR(100) PRIMARY KEY,
  location VARCHAR(100)
);
-- Instructor Table
CREATE TABLE instructor (
  instructor id VARCHAR(10) PRIMARY KEY,
  instructor name VARCHAR(50) NOT NULL,
  title VARCHAR(30),
  dept_name VARCHAR(100),
  email VARCHAR(50) NOT NULL
);
-- Student Table
CREATE TABLE student (
  student id VARCHAR(10) PRIMARY KEY,
  name VARCHAR(20) NOT NULL,
  email VARCHAR(50) NOT NULL,
  dept_name VARCHAR(100),
  FOREIGN KEY (dept_name) REFERENCES department(dept_name) ON DELETE SET
NULL
);
-- Enrollment Table
CREATE TABLE take (
  student id VARCHAR(10),
  course_id VARCHAR(8),
  section id VARCHAR(10),
  semester VARCHAR(6),
  year INT CHECK (year > 1990 AND year < 2100),
  grade VARCHAR(2) CHECK (grade IN ('A+', 'A', 'A-', 'B+', 'B', 'B-', 'C+', 'C', 'C-', 'D+', 'D',
'D-', 'F')),
  PRIMARY KEY (student_id, course_id, section_id, semester, year),
  FOREIGN KEY (student_id) REFERENCES student(student_id) ON DELETE CASCADE
);
-- Insert Sample Data
INSERT INTO account (email, password, type) VALUES
('admin@uml.edu', '123456', 'admin'),
('dbadams@cs.uml.edu', '123456', 'instructor');
INSERT INTO student (student_id, name, email, dept_name) VALUES
('1001', 'Alice Johnson', 'alice@example.com', 'CS'),
('1002', 'Bob Smith', 'bob@example.com', 'Data Science');
```

### 3 index.html

```
File: index.html (User Interface)
<!DOCTYPE html>
<html>
<head>
  <title>University Course Management</title>
</head>
<body>
  <h2>Student Account Creation</h2>
  <form action="student.php" method="POST">
    Email: <input type="text" name="email"><br>
    Password: <input type="password" name="password"><br>
    <input type="submit" value="Create Account">
  </form>
  <h2>Student Course Registration</h2>
  <form action="student_register.php" method="POST">
    Student ID: <input type="text" name="student id"><br>
    Section ID: <input type="text" name="section id"><br>
    <input type="submit" value="Register">
  </form>
</body>
</html>
```

## 4config.php

```
File: config.php (Database Connection)

<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "DB2";

$conn = mysqli_connect($servername, $username, $password, $dbname);
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
?>
```

## 5 student.php

## 6 student register.php

```
File: student_register.php (Student Course Registration)
<?php
include 'config.php';
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  $student_id = $_POST["student_id"];
  $section id = $ POST["section id"];
  // Check if section has space
  $check = "SELECT COUNT(*) as count FROM take WHERE section_id = '$section_id'";
  $result = mysqli_query($conn, $check);
  $row = mysqli_fetch_assoc($result);
  if ($row["count"] >= 15) {
    echo "Error: Section is full.";
  } else {
    $sql = "INSERT INTO take (student id, course id, section id, semester, year)
                   VALUES ('$student_id', (SELECT course_id FROM section WHERE
section_id='$section_id'),
```

```
'$section_id', 'Spring', 2025)";

if (mysqli_query($conn, $sql)) {
    echo "Successfully enrolled!";
    } else {
    echo "Error: " . mysqli_error($conn);
    }
  }
}
```

# Final Steps

Submit the files via UML Command submit malamin 3100-S25-phase2 phase2\_submission