**Week 5 Final Project: Student Portal MySQL Database and Class Registration**

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January 27, 2025

**Figure 1: Student Portal Database**

A screenshot of a computer

AI-generated content may be incorrect.

**Figure 2: Course Assignments Table**

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**Figure 3: Courses Table**

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**Figure 4: Enrollments Table**

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**Figure 5: Instructors Table**

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**Figure 6: Notifications Table**

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**Figure 7: Roles Table**

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**Figure 8: Semester Schedule Table**

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**Figure 9: User Table**

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**Figure 10: Waitlist Table**

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**Figure 11: Course Enrollment View**

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**Figure 12: Student Dashboard Prior to New Class Registration**

A screenshot of a student portal

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**Description: Figure 12** presents a "before" screenshot of the user dashboard prior to enrolling in a new course. The logged-in user is currently enrolled in three courses: Data Structures, Quantum Mechanics, and Cybersecurity Fundamentals. By selecting the "View/Register for Courses" button, the user is redirected to the Class Registration/Enrollment Page, shown in **Figure 13.**

**Figure 13: Enrollment Page** A screenshot of a student portal

AI-generated content may be incorrect.

**Figure 14: Class Registration Action**

A screenshot of a student portal

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**Description: Figure 14** demonstrates the system behavior when the user selects the "Enroll" button for the Introduction to Programming course. Upon selection, a confirmation message appears at the top of the page, indicating successful enrollment in the course. Additionally, the "Students Enrolled" column dynamically updates to reflect the new enrollment. Similarly, the "Waitlist" button, also shown in **Figure 14**, provides functionality for joining a full course waitlist, displaying a notification to confirm the user has successfully joined the waitlist.

**Figure 15: Updated Student Dashboard After New Course Enrollment**

A screenshot of a computer

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**Description: Figure 15** displays the updated Student Dashboard after successfully enrolling in the Introduction to Programming course.

**Figure 16: Student Dashboard Prior to Delete Course**

A screenshot of a student portal

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**Description: Figure 16** displays the Student Dashboard before the "Delete" action is selected for the Cybersecurity Fundamentals course. **Figure 17** showcases the updated Student Dashboard after the "Delete" action has been performed. **Figure 18** illustrates the updated Class Registration Page (compared to **Figure 14**), demonstrating that the "Students Enrolled" column dynamically updates to accurately reflect the user's action.

**Figure 18: Updated Class Registration Page After Course Deletion**

A screenshot of a student portal

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