**Case Study: Online Student Registration System**

**Background:**

A university wants to develop an online student registration system to simplify the registration process for both students and administrative staff. The system will allow students to register for courses, view their schedules, and make payments online. The university aims to improve efficiency, reduce administrative workload, and enhance the user experience.

**Requirements:**

The system should have the following features:

**User Registration:** Students can create accounts with their personal information, such as name, email, and student ID.

**Course Registration:** Students can search and select courses to register for the upcoming semester. They can view course details, including the course code, title, professor, schedule, and available seats.

**Schedule Display:** After registration, students can view their schedules, including course names, times, and locations.

**Payment Processing:** Students can make payments for their selected courses through the system using credit cards.

**Email Notifications:** The system should send email confirmations for successful registrations and payment receipts.

**Tasks for Students:**

Students are tasked with developing test cases for the online student registration system to ensure that it meets the specified requirements and functions correctly. Test cases should cover various scenarios, including positive and negative cases, edge cases, and typical user interactions.

**Sample Test Cases:**

**User Registration:**

Positive Test Case: A new student registers with valid information.

Negative Test Case: A new student attempts to register with an invalid email format.

**Course Registration:**

Positive Test Case: A student selects and registers for a course with available seats.

Negative Test Case: A student attempts to register for a course that is already full.

**Schedule Display:**

Positive Test Case: A registered student views their schedule with the correct course information.

Edge Test Case: A student with no registered courses views their empty schedule.

**Payment Processing:**

Positive Test Case: A student successfully makes a payment for registered courses.

Negative Test Case: A student's credit card payment fails due to an incorrect card number.

**Email Notifications:**

Positive Test Case: A student receives a registration confirmation email after successful course registration.

Negative Test Case: A student does not receive an email confirmation after a successful payment.

**User Profile:**

Positive Test Case: A student updates their profile information, such as changing their email address.

**Security and Access Control:**

Positive Test Case: An administrator logs in and can access administrative functions.

Negative Test Case: A student attempts to access administrative functions and is denied access.

These are just a few sample test cases. Students should create a comprehensive set of test cases to cover all aspects of the online student registration system, ensuring that it functions correctly, is user-friendly, and maintains data accuracy and security.