Team members: Aaron C., Casey S., Justin R.

COSC 4460 – Class Exercise # 2 – Use Case

**Use Cases**:

1. **View Available Classes**: Allows students to view the list of available classes along with their times, instructors, and other relevant information.

2. **Register for Classes**: Enables students to register for classes they are interested in attending.

3. **Add Class**: Allows students to add additional classes to their schedule after registration.

4. **Drop Class**: Allows students to drop classes from their schedule if they no longer wish to attend.

5. **Make Fee Payment**: Enables students to make payments for their registration fees.

6. **View Class Schedule**: Allows students to view their current class schedule, including enrolled classes and their respective times.

**Use Case Diagram:**

| Student Registration |

+---------------------------+

| View Available Classes |

|---------------------------|

| Register for Classes |

|---------------------------|

| Add Class |

|---------------------------|

| Drop Class |

|---------------------------|

| Make Fee Payment |

|---------------------------|

| View Class Schedule |

+----------------------------+

**Use Case Scenario:** Registering for Classes

1. **Actor**: Student

2. **Preconditions**: Student is logged into the system.

3. **Main Flow**:

- Student selects the "Register for Classes" option from the menu.

- System presents a list of available classes.

- Student selects the classes they want to register for.

- System verifies the eligibility of the student for each selected class.

- System adds the student to the roster of each selected class.

- System confirms successful registration.

4. **Postconditions**: Student is successfully registered for the selected classes.

-This scenario outlines the steps a student would take to register for classes using the system. Similar scenarios can be developed for other use cases to further define the system's behavior and functionality.

**Use Case Scenario**: Make Fee Payment

1. **Actor**: Student

2. **Preconditions**: Student is logged into the system and has selected the option to make a fee payment.

3. **Main Flow**:

- Student selects the "Make Fee Payment" option from the menu.

- System presents the student with their current outstanding registration fees.

- Student selects the payment method (e.g., credit card, bank transfer).

- Student enters the necessary payment details (e.g., credit card number, bank account information).

- System processes the payment transaction securely.

- System updates the student's record to reflect the payment status.

- System confirms successful payment and provides a receipt.

4. **Postconditions**: Student's registration fees are successfully paid, and their payment status is updated in the system.

-This scenario outlines the steps a student would take to make a fee payment for their registered classes using the system. It demonstrates how the system handles payment transactions securely and updates the student's record accordingly.