About Monash SES

This project is an assessment task for [Monash University](https://www.monash.edu)'s Introduction to Software Engineering (FIT1010) unit. SES stands for "Student Enrolment System", a command-line interface designed to simulate the administration and management of students, units and courses within a university.

The goal of this project is to understand good software engineering practices under the Unified Process, and to better understand the Object-Oriented Programming paradigm.

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Files Included

- `CourseAdmin.py`, the main file that presents the command-line interface onscreen options
- `Enrolment.py`, contains all the methods required to complete tasks in the SES

- `Validate.py` , a module used to validate user input
- `menuValidation.py` , a module used to navigate the command-line interface
- `University.py` , the University class that contains the database of students, units and courses
- `Courses.py` , the Course class that initialises for every new instance of a course object
- `Units.py` , the Unit class that initialises for every new instance of a unit object
- `Student.py` , the Student class that initialises for every new instance of a student object

Quick-Start Guide

To start, run `CourseAdmin.py` in a python-enabled command line interface. If you're using SHELL (like in the Mac OS X Terminal), open it in folder these files are located in, and run:

```
python3 CourseAdmin.py
```

The 6 Main Use-Cases

Create Course

Before you begin, a course needs to be created. To do this, go to **Main Menu → Courses Menu → Create Course** and follow the prompts.

Create Unit

To create a new unit, under the **Main Menu**, go to **Units Menu → Create Unit**, and follow the prompts.

Create Student

To add a student to the university system, under the **Main Menu**, go to **Students Menu → Create Student**, and follow the prompts as necessary.

(Note: a course must have already been created before adding a student to the university system).

Enroll Student

Under the **Main Menu**, go to **Students Menu** → **Enroll Student**, and follow the prompts as needed.

Display Student Information (Within Unit)

In the **Main Menu** go to the **Units Menu** → **Filter Search students in unit**. Here, you can select to see undergraduate/postgraduate students, international/domestic students and full-time/part-time students within a particular **unit**.

Display Student Information (Within Course)

In the **Main Menu** go to the **Courses Menu** → **Filter Search students in unit**. Here, you can select to see undergraduate/postgraduate students, international/domestic students and full-time/part-time students within a particular **course**.