

UFV Administration Application  
Requirements Document

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1] Domain.

I have chosen Education in regards to the UFV Advisors and Registrar office.

2] Problem.

We would like to be able to calculate an ad-hoc total of tuition costs for students when planning their semester. Also, we want the ability to calculate how long a student will take to complete the rest of their courses based upon the courses needed, courses completed, and availability to name a few. With these two values already calculated, we can then do a real-time estimate of how much the student should expect in tuition charges for the remainder of their degree.

3] Purpose and Audience.

This helps the computer science community by bringing another helpful function of an everyday job to the digital workplace. The business value of this project is the amount of time required to manually calculate these values given. Simply being able to type in desired numerical values and have a result produced instantly saves time and money. This program will reduce the intervention of human error in calculations. My audience will be Advisors and the administration of the Registrar.

4] Story Line.

Student's Story:

As a Student, I want to know how much this semester in going to cost me and how much longer I should expect to be in school so that I can plan accordingly.

Registrar's Story:

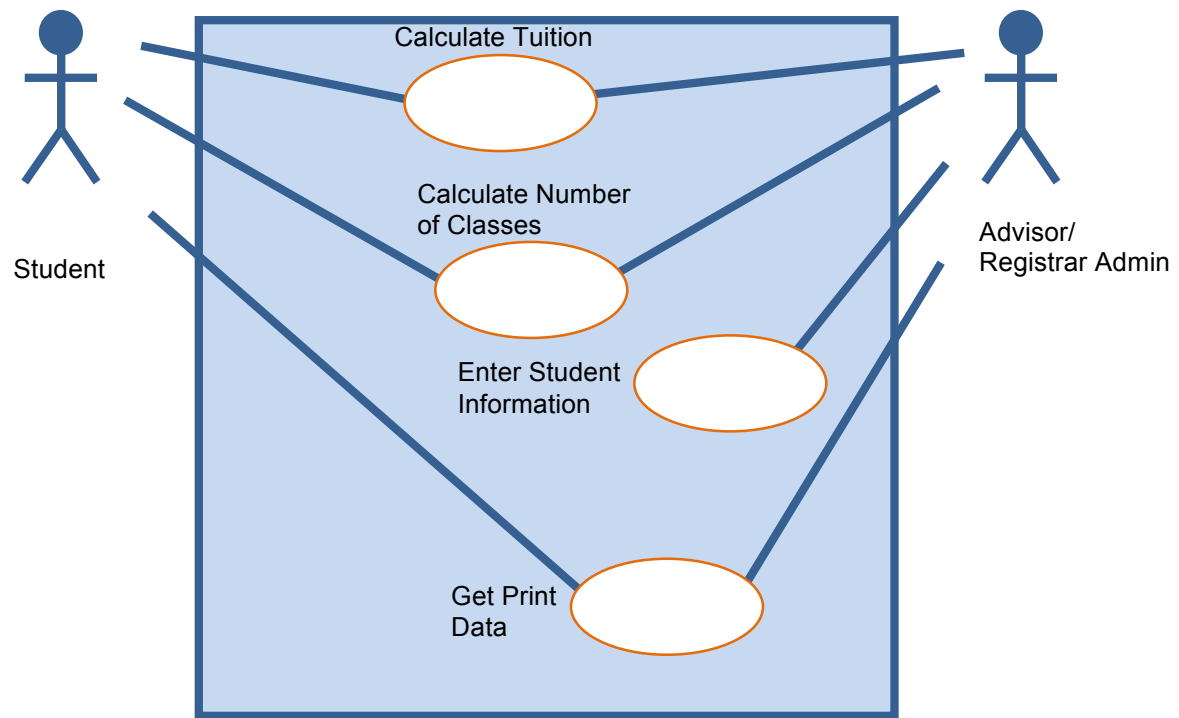
As a member of the Registrar, I want to let students know in advance how much money they should expect to be paying so that they are able to accommodate these costs in the near future.

Advisor's Story:

As an Advisor, I want to show my students how many courses they have left so that they can expect to graduate in a given time-frame.

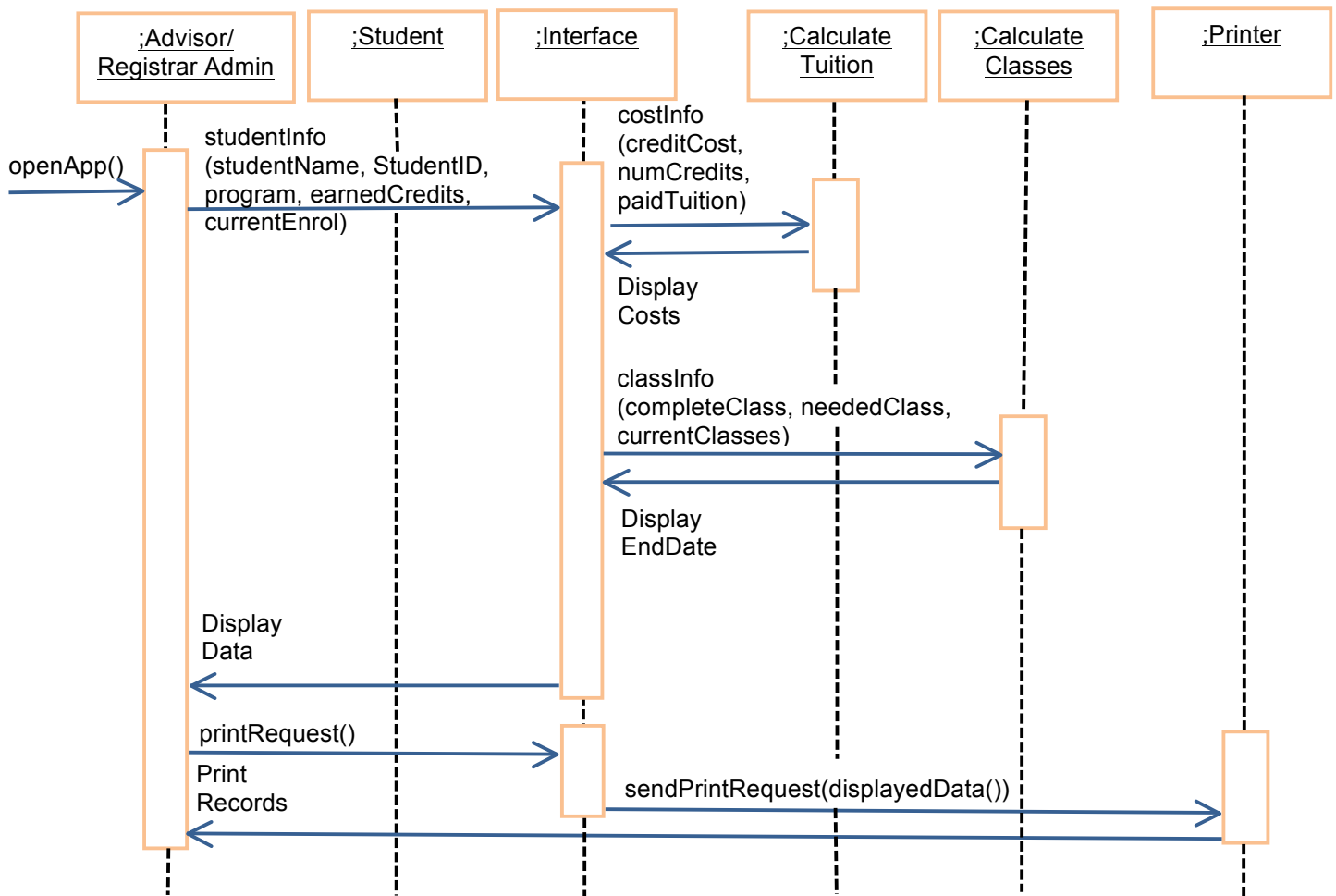
## 5] UML Diagrams [Use Case and Sequence Diagrams].

### *Use Case Diagram*



## 5] UML Diagrams [continued].

### Sequence Diagram



#### 6] Required Functionality.

The application must bring at least three GUIs into consideration. The main menu, the tuition calculator, and the remaining time a student can expect to be in post-secondary education. Another screen will be the overall tuition costs until graduation. This screen will inform the student of how much they should expect to pay until they complete their degree.

All menu requirements,

- Navigation using the back and home buttons.
- Menu tab for selection of any GUI/ tool desired in all windows.

Main menu requirements,

- Welcome Banner.
- Access to the three GUIs: tuition, classes, and overall tuition calculator.

Tuition calculator requirements,

- Fields for: Student name, student ID, total cost per credit, total credits or classes desired, average credits per course [dependent on program], existing tuition payments, and a calculated total.
- Check Box for domestic or international student.
- Ensuring all fields contain error checking [ie. characters only, numbers only].
- Error message dialog if fields have incorrect data type entered.
- OPTIONAL: Print functionality.

Class calculator requirements,

- Fields for: Student name, student ID, total classes completed, current class enrolment, anticipated number of classes taken per semester, total classes needed for a particular program, and a calculated date.
- Ensuring all fields contain error checking [ie. characters only, numbers only].
- Error message dialog if fields have incorrect data type entered.
- OPTIONAL: Print functionality.

Overall tuition calculator requirements,

- Fields for: Student name, student ID, total cost per credit, total classes or credits needed for a particular program, calculated overall total.
- Ensuring all fields contain error checking [ie. characters only, numbers only].
- Error message dialog if fields have incorrect data type entered.
- OPTIONAL: Print functionality.

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