# Assignment 2 – Database Application Development:

# Use Cases

## Actors:

The actors for every use case are the small number of SMMC office staff. Since only stff memebers will have access to the application, and since all staff have the same level of privilege, it is not necessary to provide a user authentication/authorisation mechanism.

## Students:

Office staff shall add and update student records, including:

* Name
* Contact information
* Age
* Parent contact information (if the student is under 18)
* Ensemble membership

Office staff shall enroll students in zero or more lessons each year.

Office staff shall calculate the fees owed for lessons or instrument hire.

Office staff shall record payments made for a student's fees.

Office staff shall be able to display student records.

## Tutors:

Office staff shall enter and update tutor records, including:

* Name
* Contact information
* Positions held
* Qualifications

Office staff shall assign tutors to lessons

Office staff shall be able to display tutor records.

## Lessons:

Office staff shall enter and maintain information about lessons, including:

* Lesson dates and times
* lesson location
* Lesson subject
* Enrolled students
* Responsible tutors

Office staff shall be able to display records of lessons.

## Performances:

Office staff shall enter and maintain information about performances, including:

* Date and time
* Performance venue
* Music pieces performed

Office staff shall be able to display a report of any performance.

## Sheet music:

Office staff shall record and maintain information about sheet music, including:

* Title
* Composer
* Score type (instrument or orchestra)
* Instrument parts
* Difficulty level
* Number of authorised copies

Office staff shall record the issue of copies to individuals and their subsequent return.

Office staff shall be able to search for and display records of sheet music.

## Instruments:

Office staff shall enter and maintain information about instruments available for hire.

Office staff shall record the repair status of instruments needing repair

Office staff shall record the hire of an instrument by a student.

Office staff shall be able to diplay a report of all instruments.

## Ensembles:

Office staff shall maintain records or membership in each of the organisation's performance ensembles.

Office staff shall be able to display membership lists for each ensemble.