**REQUIREMENTS ANALYSIS DOCUMENT**

NPD Coding

**Members**

PATRICK MOYLES – K00242839

NATHAN O’CONNOR – K00243135

DAVID O’MAHONY – K00236744

Contents

[1 Introduction 2](#_Toc53855610)

[1.1 Purpose of System 2](#_Toc53855611)

[1.2 Scope of System 2](#_Toc53855612)

[2 Current Services Description 3](#_Toc53855613)

[2.1 Context Diagram 3](#_Toc53855614)

[2.2 External Entity List with Description 4](#_Toc53855615)

[2.3 Outputs (with Recipients) 5](#_Toc53855616)

[2.4 Inputs (with Sources) 6](#_Toc53855617)

[2.5 List of Documents 7](#_Toc53855618)

[2.6 Initial List of Requirements 8](#_Toc53855619)

# 1 Introduction

PATRICK MOYLES – K00242839

## 1.1 Purpose of System

The purpose of the new system is to replace the Sullimar Academy of Music current system, which is primarily a paper-based system. This system was described by the client as unreliable, slow and too prone to human error. Further discussions with the client revealed that they wanted to move from paper-based to a computer-based system. We then asked the client what information they would like to be stored, should certain privileges be put in place for certain users, exams, exam results etc.

DAVID O’MAHONY – K00236744

## 1.2 Scope of System

Sullimar Academy of Music current system is mainly paper based. The User would come into the academy/ or call and would have to fill out a paper-based form, all the academy’s data on students, teachers, course etc are all in paper form.

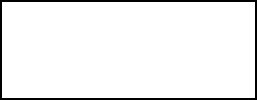
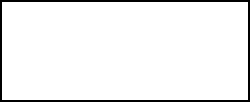
With an increase in business over the last few years the current management cannot provide an effective service to its students and Users. In the current system there has been problems with cancellations and losing cheques, this is due to the lack of sufficient automation of the system and human error.

The academy wishes to transition from a paper-based system to an online system.

# 2 Current Services Description

DAVID O’MAHONY – K00236744

## 2.1 Context Diagram



Show List

Bookings

Box Office

Student Details

Timetable

Payment

Student Results

Exam details

*Examiner*

Course details

Admin details

Payroll

*Teacher*

Enroll in course

Fees

*Student*

*Management System*

NATHAN O’CONNOR – K00243135

## 2.2 External Entity List with Description

|  |  |
| --- | --- |
| **External Entity** | **Description** |
| General Manager | Handles external operations like exams and 1 to 1 tuition |
| External Teacher | Teaches 1 to 1 tuition with students at centres across the country |
| External Examiner | Marks the examinations |
| Exam Customers | Pay to take an exam |
| Parents | Register and pay for their child / children to take classes. |
| Students of 1 to 1 Tuition | Pay to learn instrument(s) in a 1 no 1 setting with an external teacher |
| Students of Leaving Cert Program | Pay to do Leaving Cert level music class content and take the Leaving Cert exam in music |
| Students of Diploma/Degree level Programs | Students apply to a range of diploma and degree level music courses that run in the academy |
| Box Office Customers | Customers that book to view box office performances |
| Box Office Staff | Employees hired to work at the box office |
| Box Office Performers | Performers perform at the box office in front of a live audience |

PATRICK MOYLES – K00242839

## 2.3 Outputs (with Recipients)

|  |  |  |  |
| --- | --- | --- | --- |
| **Recipient** | **Title** | **Description** | **Type** |
| Administrator | Admin wants to add a student | Student is added | Internal |
| Administrator | Admin wants to update a student | Student is updated | Internal |
| Customer | Customer wants to take an exam (User does not have to be a student) | Student is registered for the exam | External |
| Administrator | Admin wants to create a timetable | Timetable is created | Internal |
| Customer | Customer wants to register for a course | Student is registered for that course and provided a student number | External |
| Office Staff | Delete Course | A lack of students has caused staff to delete it | Internal |
| Office Staff | Update Course | The grade of a course needs to be changed from grade 1 to grade 2 | Internal |

DAVID O’MAHONY – K00236744

## 2.4 Inputs (with Sources)

|  |  |  |  |
| --- | --- | --- | --- |
| **Recipient** | **Title** | **Description** | **Type** |
| User | Sign Up | User wants to sign up for a course | External |
| User | Wants to login | User wants to login to their course | External |
| User | Cancel a registration for a course | User wants to cancel a registration for a course and switch to another course | External |
| User | Exam | Users can book an exam online | External |
| User | Box office | User can buy ticket for a performance | External |
| User | Class | Users book a class | External |
| User | Payments | User can pay for fees | External |
| User | Orders | User can view their orders | Internal |
| User | Logout | User logs out after session ends | Internal |
| User | Results | User can view results | Internal |
| User | Timetable | User can view timetable | Internal |
| User | Cancelled Orders | User can cancel an order from orders menu | External |

NATHAN O’CONNOR – K00243135

## 2.5 List of Documents

|  |  |
| --- | --- |
| **Document** | **Description** |
|  |  |
| Exam Application Form | Customers will fill out the form to apply for an exam, detailing their name, subject/instrument, grade, county and nearest town. Customers can also fill out the preferred centre name if known. |
| Candidate Result Sheet | Filled out by an examiner. Details centre the exam took place, exam date, exam number, exam time, examiner, applicant, subject/instrument and grade level. Also displays the marks based on the subject/instrument. |
| Exam Receipt | Receipt for proof of payment to take an exam. |
| Grade Certification | Certificate to show a candidate passed an exam in a particular subject/instrument. Details the grade level the candidate passed in. |
| 1 to 1 Tuition Form | A form to sign a person up for 1 to 1 tuition, the person must fill out the candidate’s name, contact details, address, subject/instrument(s), grade level. |
| Leaving Cert Program Form | Form to sign up for the SAOM Leaving Cert program. |
| Leaving Cert Program Certification | Certificate to show the student passed the leaving cert exam in music at the SAOM. |
| Diploma/Degree Program Form | Form to sign up for a Diploma/Degree program, must fill out candidate details and which program. |
| Diploma/Degree Certification | SAOM Certificate showing the diploma/degree program the student has completed. |
| Invoice | A request for payment sent to the student/parent. |
| Box Office Booking Form | Filled out to make a booking to view a box office performance. |
| Box Office Ticket | A ticket to attend a box office performance, detailing what performance and the date & time of the performance. |

NATHAN O’CONNOR – K00243135

## 2.6 Initial List of Requirements

* Add, update and delete exams.
* Add, update and delete candidates taking exam.
* Add, update and delete examiners.
* Add, update and delete exam books.
* Add, update and delete candidate results.
* Add, update and delete Internal Teachers for Leaving Cert / Diploma / Degree Programs.
* Add, update and delete External Teachers for 1 to 1 Tuition.
* Add, update and delete general managers.
* Add, update, withdraw and delete Students.
* Add, update and delete Leaving Cert Program(s).
* Add, update and delete Diploma Programs.
* Add, update and delete Degree Programs.
* Add, update and delete 1 to 1 Tuition Classes.
* Add, update and delete Student Timetables.
* Add, update and delete Teacher Timetables.
* Users can register/create accounts.
* Admins/Teachers/Users can login.
* Admins/Teachers/Users can logout.
* Users can browse classes / programs.
* Users can browse Box Office Performances.
* Users can apply to attend exams.
* Registered users can apply for 1 to 1 Tuition Classes.
* Registered users can apply to Leaving Cert / Diploma / Degree Programs.
* Add, update and delete Box Office performances.
* Public can Book to view performances.
* Add, update and delete Instruments.