Project: FireWeb

Tasks: Purpose of system by Michael rogal,

Purpose of the system

The main reason to develop a system / website for Sullimar academy of music was to improve the automation or functionality of different tasks. Parents could register on the website and register their kids to an exam at a local exam center without the need to travel to the SAOM. The website is also a great source of information which anyone in the world could access. The system also gives students the opportunity to have a look into their exam grades remotely from home. The system would also allow the students to order the books online without the need to register, it could be done as a guest. The system would also improve on the communication between all the entities. At last it would attract new students and would expand the possibility to recruit new quality staff.

**Scope of the System**

**FireWeb**

**Stephen Barry**

**16/10/2020**

The Sullimar Academy of Music (SAOM) is a centre of excellence that holds box office, tests student and organises lessons. It is currently a bricks and mortar business. It has been made apparent that to increase the businesses performance that they will need to shift to an online site. The way the business currently operates is as follows: The exams are held 3 times a year and are held by external examiners. There is a book of a list of the examiners and their details. The teacher of the student organises the exam by filling out the application form for the student and sending it off by post to SAOM with a cheque or money. The exams are priced based on what grade the student wishes to choose .The academy will then allocate an examiner that is not in the county of the student, this will eliminate the possibility of a teacher to examen their own student. There is a booklet for each grade that can be bought from the SAOM. The SAOM takes requests over the phone or by post. People also book courses in the reception of SAOM.

Some problems that have been reported by SOAM are :

* The information kept by the academy is stored in books and folders which is a problem as some documents can go missing.
* A problem with sending cheques or money off in the post is sometimes these would go missing.
* Booking process isn’t done to a optimised standard for the volume of bookings made.
* Invoices may not be being completed as they may be misplaced etc..

Knumber:k00240502

Name: Alex Olsthoorn

Person: D

I21: View exam page

019: Conformation of adding teacher

I11: Update student status

I19: Add Teacher

I14: Add Events

016: Conformation of Booked Exam

I16: Can Book exam for student

**SAOM Music School**

O9: Student Status

O8: Conformation Login

I13: Check Student status

I12: Login

I10: Delete Student

O7: Conformation Login

I9: Admin Login

I8: Delete Timetable

**Admin**

I7: Update Timetable

06: Enrolled in this class

I6: Enrol & pay for a class

O1: Current Timetable

O5: Conformation Booked Exam

I5: Student Book Exam

O3: Conformation Login

I3: Login

04: Conformation Booked exam

I4: Guest Can Book an Exam

O2: Conformation of Registration

I2: Can Register to become a student

I1: Student Can View a Timetable

**Student**

**Guest**

**Teacher**

|  |  |
| --- | --- |
| External Entity | Description |
| Principal/President | Responsible for coordinating, responsible for organization and administration, recommend changes in personnel and personnel policies, providing leadership, developing a competent administrative organization |
| Receptionist | Responsibilities or duties could include answering any walk in, call, email or social media inquiries, keep records, schedule meetings, facilitate communication withing the school |
| Teachers | Delivering the knowledge according to the curriculum, assessing and recording students progress, setting and making assignments, encouraging students to reach their potential, working as a team member with other staff members |
| Housekeeping | Looks after the school cleaning and fixing issues. |
| Examiner | Checks and correct the exams and gives an appropriate grade at the end. |
| Students | Attending classes, being prepared, taking care of school property, respecting others, completing assignments |

External Entity List

Name: Michael Rogal

|  |  |  |  |
| --- | --- | --- | --- |
| **Recipient** | **Title** | **Description** | **Type** |
| Student | View timetable | System shows timetable details | Internal |
| Student | Book Exam | Student successfully books a exam | Internal |
| Student | View Exam centers | Student can view the list of exam centers | Internal |
| Student | View Profile | Student views profile details | Internal |
| Student | View Course Details | Students successfully views course details | Internal |
| Student | Enrol in course | Student can enrol in a course | Internal |
| Student | Login | Student successfully Logs into the system | Internal |
| Guest | Book exam | Guest successfully book an exam | External |
| Guest | Register | A guest can register into the system | External |
| Teacher | Books exam | Teacher successfully books an exam | Internal |
| Teacher | View Profile | Teacher views profile details | External |
| Teacher | Login | Teacher successfully logs into the system | Internal |
| Teacher | Adds to Events page | Teacher adds to events page | Internal |
| Teacher | View Events page | Teachers views events page details | Internal |
| Admin | Login | Admin successfully logs into the system | Internal |
| Admin | Update timetable | Admin successfully updates timetable | Internal |
| Admin | Add Student | Admin added a student to system | Internal |
| Admin | Update Student | Admin successfully updated a student from the database | Internal |
| Admin | Add Teacher | Admin successfully adds teacher | Internal |
| Admin | View exam page | Admin receives exam pages details | Internal |

**Outputs (with recipients)**

Stephen Barry

Knumber:k00240502

Name: Alex Olsthoorn

Person: D

Inputs with Sources

|  |  |  |  |
| --- | --- | --- | --- |
| Sources | Title | Description | Type |
| **Student** | View Timetable | A Student can view a timetable | Internal |
| **Guest** | Register | A Guest can register to become a student | Internal |
| **Student** | Login | A student can Login to their account on the website | Internal |
| **Guest** | Book Exam | A Guest/Parent can book an exam | External |
| **Student** | Book Exam | A student can book their own exam as well on their account | External |
| **Student** | Enrolling in a class | A student can enrol in multiple classes if they wish | Internal |
| **Admin** | Update Timetable | Admin can update the timetable to make any changes they need be | Internal |
| **Admin** | Delete Timetable | Admin can delete an old timetable | Internal |
| **Admin** | Login | Admin can log into their administration page to make changes to the website | Internal |
| **Admin** | Delete Student | Admin can delete/remove a student from the database | Internal |
| **Admin** | Update Student | Admin can update a student’s status if they are out sick for example | Internal |
| **Teacher** | Login | Teacher can log into their staff account for the website | Internal |
| **Teacher** | View Student Status | Teacher can view the current student’s status if they may be out sick or not able to attend today | Internal |
| **Teacher** | View newsletter events page | Can view and add events to the events page | Internal |
| **Teacher** | View personal account | Teacher can view their personal account | Internal |
| **Teacher** | Book Exam | Teacher can book an exam for the student | External |
| **Student** | View Account | A Student can view their personal account on the website | Internal |
| **Student** | View current course | Student can view their current course page and have a link to the enrol in another course | Internal |
| **Admin** | Add Teacher | Admin can add a new teacher to the website | Internal |
| **Admin** | Delete Teacher | An Admin can delete or remove a teacher from the database | Internal |
| **Admin** | View exam page | Admin can view, add and Update the exams page | Internal |

KNumber: K00231537

Ian Hogan

List of Documents:

|  |  |
| --- | --- |
| **Document** | **Description** |
| Invoice | The Invoice for SAOM is a web service that simplifies the way that the Academy can manage and monitor their sales, generate invoices, receive and track payments. |
| Receipt | Receipts will be given to customers or student when they make a booking to see a show or when booking online examinations, booking courses for confirmation of their purchase. |
| Credit Note | Credit notes are typically used when there has been an error in an already-issued invoice, such as an incorrect amount, or when a customer wishes to change their original order. |
| Bookings income | This is going to be some sort of record of keeping track of how much money SAOM is generating from Bookings. |
| Online Tuition (Full time courses) | This is a way of the customer keeping track of how much they are earning from full time courses. |
| Equipment Maintenance List | Documents for Equipment maintenance is vital for keeping track of who repairs the equipment for example the mics, chairs, instruments etc. and SAOM need to keep track of how much money these repairs cost each year. |
| Timetables | Timetables are important for both teachers and full time students and will be given out at the start of each year(Room allocations etc.) |
| Student Fees | Students pay at the start of each year or before exams and SOAM keeps track of these payments .There are no instalments fees are payed in full upfront. |
| Theatre capacity | The maximum capacity for the theatre would be 100 people so SAOM need to make sure they don’t overbook. |
| Exam Reports | SAOM wants to generate online exam reports every 3 or 6 months. |
| External Exams | Students apply for exams online and pay the fee upfront and prices may very depending what grade and how many exams they are doing and the Academy will keep track of all fees and students will receive receipts. |
| Student Registration/Candidate form(results sheet) | Students Register at the start of each year and cannot change course afterword and the student must pay in full at the start of the year when registering. This form also requires students to fill in all of their personal details name ,number etc. |
| Certificates | SAOM processes results from exams and if the students succeed they receive a Certificate. |
| Box Office | This is used for people to book tickets for the shows. |
|  |  |
| Results form | This is how the Academy will keep track of all of the results from the students. |

Ian Hogan K00231537

Initial List of Requirements and Preferences:

* Timetable is required at the start of each year. Teachers must be allocated to specific students depending on what instruments are being thought. There must be consistency in the Timetables, Rooms must be allocated for teachers and Full time students Only.
* Booking Exams: Anybody can book for an exam and students can be thought by external teachers and parents as long as they meet a certain level of competence. Exam fees must be payed for upfront and students can book exams for multiple instruments. There will also be an exam department that deals with all of the exam details. There is also external exams setup, but SAOM want to change this so the student can log in and book the exams themselves. They also need a system to keep track and to accept booking fees for exams online.
* External Exam Bookings: There is also external exams setup, but SAOM want to change this so the student can log in and book the exams themselves. They also need a system to keep track and to accept booking fees for exams online. Examiners are allocated to a center and the process takes 3-4 weeks but SAOM wants to make this online. The academy process results .
* Booking Classes: A student can book classes for multiple instruments and each instrument varies in price. Students are unable to change course once it has been booked. Students must register online then can book courses/exams.
* SAOM would like an exams report to be generated online every 3 to 6 months.
* SAOM would be interested in a newsletter as it could be used as marketing for the recitals.
* SAOM wants to make a Guest login feature for customers so the login would just require a email and they can log in as a guest and book tickets for the recital. They also want some sort of Conformation email after customer makes a booking.
* SAOM would like a maintenance department to take care of Equipment such as chairs, mics, instruments etc.
* Admin Department, Exams department etc.. get a specific login to the website to access addition features e.g Admin Department could Access a students records and see if they have payed fee’s etc..
* List of Tuition fees.
* SAOM would like if a staff member could log any broken equipment and generate a purchase order.
* Box office is required : Anybody can book as long as they are registered to the website or are logging in as a guest.
* Registration page is required and confirmation when registering.
* Student login to see results etc.

Functions:

* Student and Teacher Register.
* Student and Teacher allocated specific login.
* Online exam bookings.
* Admin control to obtain more access.
* Online purchases (Courses, Exams, Recitals)
* Guest login feature
* Registration page for guests
* Viewing timetables for teachers and students.
* Admin adding and updating timetable
* Adding box office for guests.