

Sullimar Academy of Music

Software Engineering Web Project – Enigma Crackers

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1. INTRODUCTION

1. 1 PURPOSE OF SYSTEM

The purpose of this web application is to transform an existing business and its operation to a computerized system. The main objective is to change the existing daily operations of the organization to do multiple tasks that were previously done physically to being done remotely i.e. online.

The Sullimar Academy of Music. Marketing as "Sullimar academy of Music" has been in business for the last 40 years and functions from a bricks and mortar organization located in Dublin Road, Limerick. The Senior Management have made a dedication in order to create an online presence/website for the Sullimar Academy of Music. The main aim of this project is to significantly convert the manual functions of the Sullimar Academy of Music to all virtual and online based functions as well as to provide Information about various courses, events, and buying books. This will be achieved by designing an online website which will cater to a wider range of audiences looking for different courses in music and different events compared to the current bricks and mortar school/college, thus increasing the businesses overall revenue, and also covering a greater geographical location as the organization will have an online presence.

The reason for setting of the Sullimar Academy of Music online is due to the fact that the senior management team wants to completely convert the manual functions of the current systems which are currently physical and paper based systems to being all online based system as it is much easier to operate and function than a manual based system. The systems that the senior management team have decided to bring online are booking events, registering for courses, booking exams, application forms, and ordering books. The website will not just enable people to access various system functions but will also provide various information on different courses, and modules within the course as well as prices for events and courses etc.

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1.2 SCOPE OF SYSTEM

At present, Sullimar Academy of Music (SAOM) operates on a Brick-And-Mortar type presence.

Paper-based documentation in the form of payment receipts, records and application forms are some of the current methodologies SAOM use to conduct their business operations. It has been noted by management that in order to continue increasing their market share at peak efficiency, they must begin to move their business online and away from a primarily paper-based, brick-and-mortar business model. It has also been noted that their accountancy department and administration department are finding it difficult to keep track of new bookings, payments and existing bookings as the overall volume of paperwork increases per annum.

As market share for Sullimar Academy of Music continues to grow, the need to move a large portion of their business operations online and through digital mediums has become more and more apparent.

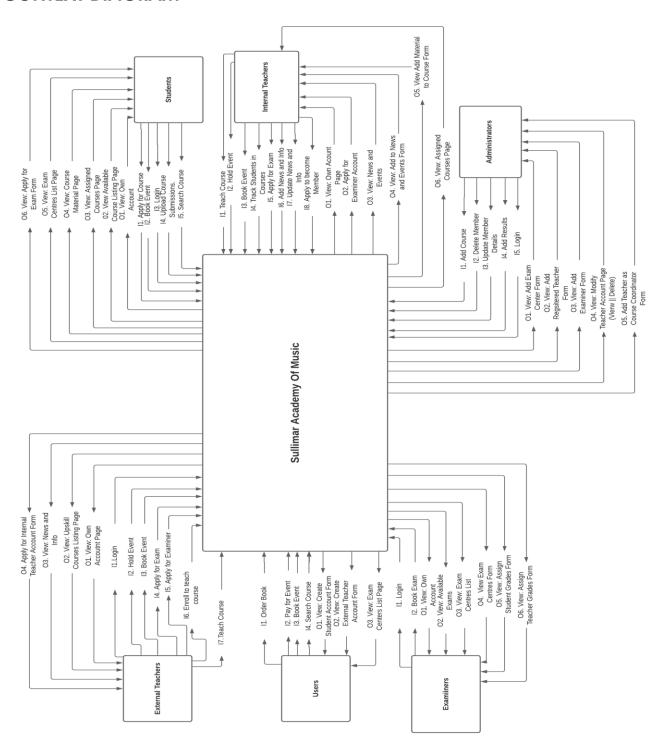
Some of the key problem areas that have been noted by SAOMs key representatives are:

- Difficulty in keeping track of bookings due to changes & cancellations inhouse and from clients.
- Inefficient booking process with direct correlation to volume of bookings occurring over the phone.
- Keeping track of installment-based payment schemes.
- Application Forms delay due to current method of receiving through Post.
- Cheques/Payments getting lost.
- Invoices are not being fulfilled when Statements are issued due to PO's being misplaced.
- Locating examiners to oversee exams hosted in designated exam centers becoming inefficient and time consuming.

Joe Moloney -K00243015

2. CURRENT SYSTEMS DESCRIPTION

2.1 CONTEXT DIAGRAM



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2.2 EXTERNAL ENTILY LIST WITH DESCRIPTION

Teacher from SOAM

The teachers from the Sullimar Academy of Music can do many functions such as
having a staff portal where they can view courses, teach a course, hold and book
events, track students in their courses, view timetables, view different exam
centers, apply for exams, add, view and update news and info, apply to become an
examiner.

Teachers from All -Around Ireland

 Teacher from all around Ireland will have a sub staff portal where they can apply to teach a course, hold and book events, apply for exams, apply to become an examiner, teach courses, view different exam centers, view timetables.

Students

 Students can apply to enroll in a course, can book and view different events, can login to the student's portal to access different information regarding different courses, events and tuitions.

Users

 The users can view and order books and events. Can view information and prices of different courses offered by the Sullimar Academy of Music.

Admins/ Senior Management

The admin can create different courses, can delete members (students/teachers)
 from courses, put students results online and view all members (students, teachers etc.) by course/all.

Examiners

 Examiners will have a examiners portal where they can view different exam centers, can book availability for exam supervision, and also view the exam dates and times they have been slotted in for.

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2.3 OUTPUTS (WITH RECIEPIENTS)

Recipient	Title	Description	Туре
External Teachers	 View: Own Account Page View: Upskill Courses Listing Page View: News & Events Page View: Apply for Internal Teacher Account Form 	 Can view the account details Can see a list of courses to upskill Can view news and events Can apply to be an internal teacher 	External
Internal Teachers	1. View: Own Account Page 2. View: Apply for Examiner Account Form 3. View: News & Events Page 4. View: Add to News & Events Form 5. View: Add Material to Course Form 6. View: Assigned Courses Page	 Can view the account details Can apply for examiner account Can view different news and events Can edit and add to news and events sections Can add various materials to the courses form Can view Assigned courses page 	Internal
Non-Registered General Users	 View: Create Student Account Form View: Create External Teacher Account Form View: Exam Centers List Page 	 Can create student account form Can create external teacher account form View different exam centers lists 	External
Registered Students	 View: Own Account Page View: Available Course Listing Page View: Assigned Courses Page View: Course Material Page View: Exam Centers List Page View: Apply for Exam Form 	 Can view the account details Can view available courses listings Can see their Assigned courses page Can see their course material page Can view different exam centers lists Can apply for an exam 	Internal

Recipient	Title		Descrip	tion	Туре
Examiners	1.	View: Own Account Page	1.	Can view the account page	Internal
	2.	View: Available Exams	2.		
	3.	List View: Exam Centers	3.	exams list Can view different exam	
		List		centers list	
	4.	View: Exam Creation Form	4.	Can create an exam creation form	
	5.	View: Assign Student Grades Form	5.	Can assign different students grades form	
	6.	View: Assign Teacher	6.	Can assign teacher	
		Grades Form	7.	grades form	
Administration	1.	View: Add Exam Center Form	1.	Can add an exam center form	Internal
	2.	View: Add Registered Teacher Form	2.	Can add registered teacher form	
	3.	View: Add Examiner	3.		
		Form	4.	Can modify (either view	
	4.	View: Modify Teacher Account Page (View		or delete) teacher account pages	
		Delete)	5.	• •	
	5.	View: Add Teacher as Course Coordinator Form		course coordinator	

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2.4 INPUTS (WITH SOURCES)

Recipient	Title	Description	Туре
External Teachers	 Login. Hold Event. Book Event. Apply for Exam. Apply for Examiner. Enroll to teach course. Teach Course. Apply for Internal Teacher. 	1. External Teachers can login to a sub staff portal. 2. When logged in External Teachers can hold an event. 3. When logged in External Teachers can book an event. 4. When logged in External Teachers can apply for an exam. 5. When logged in External Teachers can apply to be an examiner. 6. When logged in External Teachers can apply to teach a course. 7. When logged in External Teachers can teach a course. 8. When logged in External Teachers can apply to become an internal teacher.	External
Internal Teachers	 Teach Course. Hold Event Book Event Track Students in courses. Apply for Exam. Add News and info Update News and info. Apply to become Examiner. Login 	1. When logged in Internal Teachers can teach a course. 2. When logged in Internal Teachers can hold an event. 3. When logged in Internal Teachers can book an event. 4. When logged in Internal Teachers can see what students are in their course. 5. When logged in Internal Teachers can apply for musical exams. 6. When logged in Internal Teachers can add news and info to the website. 7. When logged in Internal Teachers can update news and info to the website. 8. When logged in Internal Teachers can apply to become an examiner. 9. Internal Teachers can Login to the staff portal.	Internal

Recipient	Title		Description	Туре
Non-Registered General Users	1.	Order Book	1. Users can Order books without	External
	2.	Pay for Event.	being logged in.	
	3.	Book Event.	2. Users can pay for events	
			without being logged in.	
			3. Users can book an event	
			without being logged in.	
Registered Students	1.	Apply for Course.	When logged in Students can	Internal
	2.	Book Event.	apply for a course.	
	3.	Login.	2. When logged in Students can	
	4.	Upload course	book an event.	
		submissions.	3. Students can Login.	
			4. When logged in Students	
			upload course submissions.	
Examiners	1.	Login	Examiners can login.	Internal
	2.	Book Exam	2. Examiners can book exam	
		Supervision.	supervision.	
Administration	1.	Add Course.	When logged in Administrators	Internal
	2.	Delete Member.	can add a course.	
	3.	Update Member	2. When logged in Administrators	
		Details.	can delete a member.	
	4.	Add Results.	3. When logged in Administrators	
	5.	Login.	can update a member.	
			4. When logged in Administrators	
			can add results.	
			5. Administrators can login.	

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DOCUMENTS AND REQUIREMENTS

2.5 LIST OF DOCUMENTS

Invoice

time-stamped business report that separates and records an exchange between a purchaser and a merchant. If merchandise, or administrations were bought using a loan, the receipt ordinarily determines the details of the arrangement and gives data on the accessible strategies for installment.

Receipt

record which is given by a business to its clients each time an item or administration is sold. It is a purchaser's verification of procurement. Commonly it will show: the date and season of the buy, the quantity of things bought and value sums.

Booking a course

Keeps the details of the customer information (name, email, address, qualifications and instrument of customer) and the courses information e.g like the type of course, the instrument used for course and the course grade, the payment of the course.

Credit note

record which is given by a business to its clients each time an item or administration is sold. It's a purchaser's verification of procurement. Commonly it will show: the date and season of the buy, the quantity of things bought and value sums.

Purchasing a book

When a book is ordered online the information of the customers details (name address email), payment(credit card and debit card details), delivery (address, delivery date) and the details of the book(name price availability) will be kept.

Booking a course

Keeps the details of the customer information and the courses information e.g. like the type of course, the instrument used for course and the course grade, the payment of the course.

Booking examination

When booking a examination the details needed would be the customer information (name, instrument, age, email, number). The details of the exams (course exam, price, time, date and location). Payment details (credit card and debit card details)

1 on 1 tuition

Would be the personal details of the person making the booking (name, instrument, age, email, number) and the timetable and the persons previous grades.

Application by teacher

This will provide the details of the person writing the application (name age, email, number). The job details. The qualifications of the person.

Booking an event

Booking an event would need the customer details (name, email phone number). The event details (name of event, location, date, and time). Payment information (credit card and debit card details).

2.6 INTAIL LIST OF REQUIREMENTS

Admin

- Add/update/delete/view admins
- Add/update/delete/view course,
- Add/update/delete/view students and teachers,
- Add/update/delete/view students results
- Add/update/delete/view books
- Add/update/delete/view exams
- Add/update/delete/view 1 on 1 tuitions
- Add/update/delete/view events
- Add/update/delete/view examiners
- Write reports
- Send materials for repairs

Teachers (In SOAM)

- Oder books
- Access to staff portal.
- View their courses details.
- Booking a stage hall.
- Find students courses.
- View timetables, exams centers.
- Apply to be examiner
- View exam centers
- View forms

Teachers (not in SOAM)

- Oder books
- Register for course
- · Access to the sub staff portal
- Apply for courses
- Book stage hall
- Book events
- Apply for exams
- Apply to be examiner
- View exam centers
- View timetables

Students

- Oder books
- Book events
- different event
- accesses student portal
- view courses details
- view events
- view tuitions
- book tuitions

Examiners

- Access to examiners portal
- View exam centers
- View exam details (dates, times)
- Book available supervision times

User

- Oder books
- Register for course
- Register for events
- View course details (price, level, name)

3. PROPOSED SYSTEM

3.1 OVERVIEW

The main aim and objective of the proposed system is to go fully virtual and online which will provide all the manual paper-based systems to be all accessed online as well as to keep track of all academy related information in a proficient and efficient manner. The new proposed website/system would have all of the systems functions operating online such as booking events, ordering books, registering and applying for courses as well as providing different members of the academy to login and sign up to their related portals. Each portal will contain related information depending on which user is logged in (i.e. Teacher, Students, Examiners etc.). The proposed system is also aimed to be fully administrated by the Admins/Senior Management.

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3.2 FUNCTIONAL REQUIREMNTS

3.2.1 LIST OF REQUIREMENTS

Req. No	Company Name: Enigma Crackers	Assigned to:
1	maintenance request form	Griffin, Pierce
2	Process timetable (teacher)	Griffin, Pierce
3	update a book	Griffin, Pierce
4	View event details	Griffin, Pierce
5	View timetable (student)	Griffin, Pierce
6	add items to teacher's area	Griffin, Pierce
7	Book a course	Griffin, Pierce
8	change registered details (user)	Griffin, Pierce
9	Delete staff/teacher	Griffin, Pierce
10	generate maintenance request list for management	Griffin, Pierce
11	Login/Logout	Ikram, Fyaz
12	Process timetable (student fulltime)	Ikram, Fyaz
13	remove items from teacher's area	Ikram, Fyaz
14	Update staffs	Ikram, Fyaz
15	view course details	Ikram, Fyaz
16	View Own Student details	Ikram, Fyaz
17	View all Student details	Ikram, Fyaz
18	Add event	Ikram, Fyaz
19	Allocate teacher and room to student (private tuition)	Ikram, Fyaz
20	book event	Ikram, Fyaz
21	generate monthly sales report from box office sales	Ikram, Fyaz
22	generate monthly sales report from fulltime course	Moloney, Joe
23	Update Student	Moloney, Joe
24	Update course details	Moloney, Joe
25	purchase a book	Moloney, Joe
26	update event details	Moloney, Joe
27	Update Student result (External)	Moloney, Joe
28	View exam details by location	Moloney, Joe
29	View timetable (teacher)	Moloney, Joe
30	Add new course details	Moloney, Joe
31	Book a lesson	Moloney, Joe
32	<mark>delete a book</mark>	Moloney, Joe
33	Delete Student	Moloney, Joe
34	generate monthly sales report for external exams	Moloney, Joe
35	generate monthly sales report from private tuition	Moloney, Joe
36	<mark>Search Functionality</mark>	Moloney, Joe
37	delete event details	Parr, Dylan
	generate annual sales report from all facets of business	
38	including book sales and box office sales	Parr, Dylan
39	Process external exam (allocate examiner to centre)	Parr, Dylan
40	Register Student	Parr, Dylan
41	update items in teacher's area	Parr, Dylan

41	view book orders	Parr, Dylan
42	View staff details	Parr, Dylan
43	add a book	Parr, Dylan
44	Add staff/teacher	Parr, Dylan
45	Book an exam	Parr, Dylan
46	delete course details	Parr, Dylan
47	Display Dashboard	Parr, Dylan
48	generate monthly sales report from book sales	Parr, Dylan
49	Generate Result Sheet	Parr, Dylan

Fyaz Qadir Ahmed Ikram - K00237093

3.3 NON-FUNCTIONAL REQUIREMNTS

3.3.1 USABILITY

Usability is the capacity of a system to provide a condition for its users to carry out and operate different tasks on the website safely, effectively, and efficiently while still enjoying the user experience. In regard to usability for the Sullimar Academy of Music, we aim on have a minimalistic design with the website also being fully responsive which allows the user to view the website easily as it will be compatible on different devices such as mobile, tablet and desktops. We also have an objective to try and maximize error handling efficiency for the website, for example notifying the user if they have typed in any wrong credentials etc. We also aim on having easy accessibility features on the website which allows users with disability to perceive, understand, navigate, and interact with the website.

Pierce Griffin - K00242939

3.3.2 RELIABLILTY

Reliable websites are transparent and clear about their sources which enable the user to gain a better understanding of the website, rather than depending on secondhand information. The reliability of the information contained on The Sullimar Academy of Music(SAOM) website will be consistent and clear as it will be regularly updated with different news topics and events which will be only added by authorized staff from the Academy which will keep the accuracy of the information consistent throughout the website. This website is needed to be operational and online for 24/Hrs. 365 Days a Year, since any queries/questions, access to course material, event bookings will always have to be available to the user. The website is also aimed to having an uptime of 99.999%, along with a yearly one-day maintenance check to ensure the security and maintainability of the website. SSL is also required and planned to be used for the SAOM website as this would be a major factor on whether the user would feel safe to visit the site or not, as having SSL would prove that the website is secure and safe to use.

Fyaz Qadir Ahmed Ikram - K00237093

3.3.3 PERFORMANCE

The site will need to be able to store data inputted by general users and members of staff, with this requirement in mind, the usage of an SQL back end database paired with the dynamic functionalities of PHP scripting will make it possible to keep the general quantity of code on the site to a minimum and allow for the more resource intensive tasks to be taken care of on the backend server thus enabling the site to load and display information at a much more efficient pace.

Pierce Griffin - K00242939

3.3.4 SUPPORTABILITY

When running our website, the tasks that will be done are; first, we will be updating the website's software so often. We will also target to keep finding ways to improve our website speed. We will aim to fix any coding errors that will show up. Weekly we will back up all the website's files if the original website's files get lost or corrupted. When needed, we will update the content on the website and make sure every post is relevant today. We will improve searchability on all our webpages. last, we will make sure all links are fixed on our website

Joe Moloney - K00243015

3.3.5 SCALABILTY

The website will be able to handle and increase in users and workload, impacting or disrupting the users when adding resources. Scalability is about growth, there are factors that must be considered to make a website scalable. These factors are performance, recoverability, and ease of management. Performance consists of balancing workload on the website and the how quickly can the website handle and increase in users. Recoverability is how quickly can the website get back to its original state after a failure or going down. Ease of management is how easy are the ways of updating and maintaining a website. By monitoring and improving these areas successful website scalability can be achieved.

Dylan Parr - K00226039

3.3.6 SECURITY

Through the use of SQL prepared statements, it will be possible to enable the backend server to filter out any malicious user inputs that may compromise data integrity. SSL.

Joe Moloney - K00243015

3.4 USE CASE MODEL

3.4.1 USE CASE DEFINITIONS

Use Case Name: Login/Logout

Use Case Description:

The Staff and Students wants to login to their account and logout from the website

Participating Actor(s):

Staff and Students

Entry Conditions:

• The Students and Staff would like to login to their account and logout from the website

Flow of Events:

- 1. If the Student /Staff presses Login menu from the home page
- 2. The system responds by displaying the Login Student/Staff screen which displays a welcome Back message and
- 3. FOR each student/Staff the system requests, the following information to be entered: username and password and requests the student/Staff to click login when finished.
- 4. The student/Staff enters the username and password for their account and clicks login.
- 5. The system responds by displaying a message saying that the student/Staff has logged in to the website and brings them to their dashboard as the logged in user.
 - a. If the Student/Staff clicks logout
 - i. The system responds by displaying a message saying that the student/Staff has successfully logged out of website and brings them to the home page menu as a general user who is logged out.

Exit Condition (s):

• The Staff and Students has successfully logged into their account and logged out

Alternatives:

None

Exceptions:

None

Use Case Name: Update Staffs Details

Use Case Description:

The Administrators wants to change and update staff details

Participating Actor(s):

Administrators

Entry Conditions:

The Administrators is successfully logged in and are on the dashboard

Flow of Events:

- 1. The system responds by invoking the use case "View Staff Details" which displays a list of staff details
- 2. The Administrator enters a search criterion of a particular Staff that they are looking for
- 3. The Administrator clicks the search button
- 4. The system responds by displaying a result of the matched criteria entered from the search bar
- 5. The Administrators clicks the update button for the specific staff they would like to change the details for
- 6. The System responds by displaying a form with the specific staff details and requests to click update when finished
- 7. The Administrators changes the necessary information that needs to be changed from that specific staff details such as email, phone etc and clicks update or cancel.
 - 7.1 If the Administrators clicks update
 - 7.1.1 The system responds by displaying the updated and new details of the specific Staff the admin had changed.
 - 7.2 If the Administrators clicks cancel
 - 7.2.1 The system responds by displaying a message saying that the customer details have not changed and displays the use case "View Staff Details Page"

Exit Condition (s):

The Administrators has successfully changed and updated staff details

Alternatives:

None

Exceptions:

The criteria did not match any data contained on the server

Use Case Name: Remove Items from Teachers Area

Use Case Description:

The Staff wants to remove items from the teacher's area

Participating Actor(s):

Staff

Entry Conditions:

The Staff is successfully logged in and are on the dashboard

Flow of Events:

- 1. The Staff Clicks on the Teachers Area Forum on the dashboard
- 2. The system responds by displaying the Teachers Area Forum page
- 3. The Staff clicks the remove button for the specific item they would like to remove from the teacher's area
- 4. The System responds by displaying a confirmation page asking the user if they are sure to remove or cancel
 - 4.1 If the Staff clicks confirm
 - 4.1.1 The system responds by removing the item
 - 4.2 If the Staff clicks cancel
 - 4.2.1 The system responds by returning the staff to the dashboard

Exit Condition (s):

The Staff has successfully removed items from the teacher's area

Alternatives:

None

Exceptions:

None

Use Case Name: View Course Details

Use Case Description:

The Student/Administrators/Unregistered Users wants to view course details

Participating Actor(s):

Student/Administrators /Unregistered Users

Entry Conditions:

The Student/Administrators is successfully logged in and are on the dashboard

Flow of Events:

- 1. The Student/Administrators Clicks on the course section on the dashboard
- 2. The system responds by displaying a list of courses
- 3. The user enters a search criterion of a particular course that they are looking for
- 4. The user clicks the search button
- 5. The system responds by displaying a result of the matched criteria entered from the search bar
- 6. The Student/Administrators clicks on a specific course that they would like to view
- The System responds by showing the specific course details that were clicked by the Student/Administrators

Alternatives:

- 1. An Unregistered User visits the website
- 2. The system responds by showing the home page
- 3. Unregistered User clicks the Course Section
- 4. The system the responds by displaying a list of courses
- 5. The Unregistered User clicks on a specific course that they would like to view
- 6. The System responds by showing the specific course details that were clicked by the Unregistered User

Exceptions:

The criteria did not match any data contained on the server

Exit Condition (s):

The Student/Administrators/Unregistered Users has successfully viewed course details

Use Case Name: View Own Student Details

Use Case Description:

The Student wants to view their own details

Participating Actor(s):

Students

Entry Conditions:

• The Student is successfully logged in and are on the dashboard

Flow of Events:

- 1. The Student Clicks on the account icon on the dashboard
- 2. The system responds by displaying the logged in student and account details

Exit Condition (s):

• The Student has successfully viewed their own details

Alternatives:

None

Exceptions:

None

Use Case Name: View All Student Details

Use Case Description:

The Administrator wants to view all Student Details

Participating Actor(s):

Administrator

Entry Conditions:

The Administrator is successfully logged in and are on the dashboard

Flow of Events:

- 1. The Administrator Clicks on the Student Details section on the dashboard
- 2. The system responds by displaying a list of all student's details
- 3. The Administrator enters a search criterion of a particular student that they are looking for
- 4. The Administrator clicks the search button
- 5. The system responds by displaying a result of the matched criteria entered from the search bar

Exit Condition (s):

The Administrator has successfully viewed all students' details

Alternatives:

None

Exceptions:

The criteria did not match any data contained on the server

Use Case Name: Add Event

Use Case Description:

The Administrator wants to Add an Event

Participating Actor(s):

Administrator

Entry Conditions:

The Administrator is successfully logged in and are on the dashboard

Flow of Events:

- 1. The Administrator Clicks on the Event Details section on the dashboard
- 2. The Administrator clicks the add button on the view event page
- 3. The System responds by displaying a form with the specific event details and requests to click add when finished
- 4. The Administrator adds the necessary information that needs to be added details such as event timing, location etc and clicks add or cancel.
 - 4.1 If the Administrator clicks add
 - 4.1.1 The system responds by displaying the newly added event to the list of events.
 - 4.2 If the Administrator clicks cancel
 - 4.2.1 The system responds by displaying a message saying that the event has not been added and displays the use case "View Event Details Page"

Exit Condition (s):

The Administrator has successfully added an Event

Alternatives:

None

Exceptions:

None

Use Case Name: Book Event

Use Case Description:

The Student/Staff/Unregistered Users wants to book an Event

Participating Actor(s):

Student/Staff/Unregistered Users

Entry Conditions:

The Student/Staff is successfully logged in and are on the dashboard

Flow of Events:

- 1. The Student/Staff Clicks on the events section on the dashboard
- 2. The system responds by displaying a list of events
- 3. The Student/Staff clicks on a specific event that they would like to book
- 4. The system responds by displaying the event details with a book and cancel button
 - 4.1 If the student/staff, click book button
 - 4.1.1 The System will display the payment sections
 - 4.2 if the student/staff clicks cancel
 - 4.2.1 The system will display the list of events
- 5. The student/staff then enters in payment details
 - 5.1 If the student/staff, click pay button
 - 5.1.1 The System will display a confirmation of payment
 - 5.2 if the student/staff clicks cancel
 - 5.2.1 The system will display the list of events

Exit Condition (s):

The Student/Unregistered Users has successfully viewed course details

Alternatives:

- 1. An Unregistered User visits the website
- 2. The system responds by showing the home page
- 3. Unregistered User clicks the Events Section
- 4. The system responds by displaying a list of events
- 5. The Unregistered User clicks on a specific event that they would like to book
- 6. The system then responds by prompting the user to login/register or proceed as guest
 - 6.1 If the user logs in
 - 6.1.1 The system invokes the student/staff book event
 - 6.2 If the user registers
 - 6.2.1 The system invokes the register student/staff use case
 - 6.3 If user proceeds as guest
 - 6.3.1 The system responds by displaying the event details with a book and cancel button
 - 6.4 If the guest, click book button
 - 6.4.1 The System will display the payment sections
 - 6.5 if the guest clicks cancel
 - 6.5.1 The system will display the list of events
- 7. The guest then enters in payment details
 - 7.1 If the guest, click pay button
 - 7.1.1 The System will display a confirmation of payment
 - 7.2 if the guest clicks cancel
 - 7.2.1 The system will display the list of events

Exceptions:

None

Use Case Name: Generate Monthly Sales Report from Box Office Sales

Use Case Description:

The Administrator wants to generate monthly sales report from box office sales

Participating Actor(s):

Administrator

Entry Conditions:

The Administrator is successfully logged in and are on the dashboard

Flow of Events:

- 1. The Administrator clicks the generate monthly sales report section on the dashboard
- 2. The System responds by displaying a list of all the monthly sales reports and requests the Administrator to click the specific sales report
- 3. The Administrator clicks the box office sales report
- 4. The Systems displays a calendar requesting the Administrator to pick a month and year
- 5. The Administrator picks a month and a year
- 6. The system responds by displaying a monthly sales report for the box office sales for that specific month and year

Exit Condition (s):

The Administrator has successfully generated monthly sales report from box office sales

Alternatives:

None

Exceptions:

None

Use Case Name: Process Timetable for Students (Full-Time)

Use Case Description:

The Administrator wants to process to full-time students' timetables

Participating Actor(s):

Administrator

Entry Conditions:

The Administrator is successfully logged in and are on the dashboard

Flow of Events:

- 1. The Administrator clicks the process student timetables section on the dashboard
- 2. The System invokes the use case "View Student Details"
- 3. The Administrator clicks on the process timetable for students' button on the view student details page
- 4. The system then generates a table consisting of days and timeslots as well as the course's name, grade and semester.
- The Administrator selects the room and teacher from the dropdown to allocate a valid room and teacher into each available timeslot of the student's timetable and requests the Administrator to click process or cancel after finishing.
 - 5.1 If the Administrator clicks process
 - 5.1.1 The system responds by re-displaying the student's generated timetable details and displays a confirmation message to the Administrator indicating the student's timetable has been successfully generated.
 - 5.2 If the Administrator clicks cancel
 - 5.2.1 The system responds by displaying and invoking the "Display Dashboard" use case.

Exit Condition (s):

The Administrator has processed the full-time student timetable successfully

Alternatives:

None

Exceptions:

None

Use Case Name: Allocate teacher and room to student (Private Tuition)

Use Case Description:

The Administrator wants to allocate teacher and room to student for private tuition

Participating Actor(s):

Administrator

Entry Conditions:

The Administrator is successfully logged in and are on the dashboard

Flow of Events:

- 1. The Administrator clicks the private tuition section on the dashboard
- 2. The System invokes the use case "View Student Details"
- 3. The Administrator clicks on the private tuition for students' button on the view student details page
- 4. The system then generates a table consisting of days, timeslots, teacher names and courses for the student.
- The Administrator selects the room and teacher from the dropdown to allocate a valid room and teacher into each available timeslot for private tuition and requests the Administrator to click process or cancel after finishing.
 - 5.1 If the Administrator clicks process
 - 5.1.1 The system responds by displaying the student's generated private tuition details and displays a confirmation message to the Administrator indicating the private tuition has been successfully allocated generated.
 - 5.2 If the Administrator clicks cancel
 - 5.2.1 The system responds by displaying and invoking the "Display Dashboard" use case.

Exit Condition (s):

The Administrator has allocated teacher and room to student for private tuition successfully

Alternatives:

None

Exceptions:

None

Use Case Name: Update a Book

Use Case Description:

The Administrators would like to update the book details

Participating Actor(s):

Administrator

Entry Conditions:

The Administrator has been successively logged in

Flow of Events:

- . The system responds by invoking the use case (view book details)
- 2. The Administrator enter in the search criterion of a particular book details that they are looking for
- 3. The Administrator clicks the search button
- 4. The system responds by displaying results that matched criteria entered from the search bar
- 5. The Administrator the clicks the update button on the book they would like to update
- The system then responds by showing a form with specific book details and then requests the Administrator to click the update or cancel button when finished
- 7. The Administrator changes the information he would like to change for example the price, name, and description and then has the choice to update it or cancel it.
 - 7.1 if the Administrator selects update
 - 7.1.1 the system responds by displaying the updated details of the specific book that the Administrator had changed.
 - 7.2 if the Administrator clicks cancel
 - 7.2.1 The system responds by displaying a message saying that Book details have not changed and displays the use case "View books Details Page"

Exit Condition (s):

The Administrator has successfully changed and updated book details

Alternatives:

None

Exceptions:

The criteria did not match any data contained on the server

Use Case Name: View Event Details

Use Case Description:

The User/Unregistered Users wants to view event details

Participating Actor(s):

User/Unregistered Users

Entry Conditions:

• The User is successfully logged in and are on the dashboard

- The system responds by invoking the use case "Display Dashboard"
 The User Clicks on the Events section on the dashboard
- 3. The system responds by displaying a list of Events
- 4. The user clicks on a specific Event that they would like to view
- 5. The System responds by showing the specific event details that were clicked by the user

Exit Condition (s):

The User/Unregistered Users has successfully viewed Event details

Alternatives:

- 1. An Unregistered User visits the website
- 2. The system responds by showing the home page
- 3. Unregistered User clicks the Event Section
- 4. The system the responds by displaying a list of Events
- 5. The Unregistered User clicks on a specific Event that they would like to view
- The System responds by showing the specific Event details that were clicked by the Unregistered User

Exceptions:

None

Use Case Name: Add items to Teachers Area

Use Case Description:

The Administrator adds items to the Teachers Area

Participating Actor(s):

Staff

Entry Conditions:

The Staff is successfully logged in and is on the dashboard

Flow of Events:

- The system responds by invoking the "Display Dashboard" use case
 The Staff clicks on the Teachers Area Forum section in the dashboard
- 3. The system responds by displaying the Teachers Area Forum page
- 4. The Staff clicks the Add button for the specific item they would like to add to the teacher's area
- 5. The System responds by displaying a text area for staff to add to it
- 6. The Staff clicks the Add button
- 7. The System responds by displaying a confirmation page asking the user if they are sure they want to add or cancel
 - 7.1 If the Staff clicks add
 - 7.1.1 The system responds by adding the item
 - 7.2 If the Staff clicks cancel
 - 7.2.1 The system responds by displaying the Teachers Area Forum Page

Exit Condition (s):

The Staff has successfully added items to the teacher's area

Alternatives:

None

Exceptions:

None

Use Case Name: Generate Maintenance Request List

Use Case Description:

The Administrator wants to generate maintenance request list for management

Participating Actor(s):

Administrator

Entry Conditions:

The Administrator is successfully logged in and is on the dashboard

Flow of Events:

- The system responds by invoking the use case "Display Dashboard"
 The Administrator clicks the generate monthly reports section in the dashboard
- 3. The System responds by displaying a list of all the monthly reports
- 4. The Administrator clicks the generate maintenance request list for management report
- 5. The Systems displays a calendar requesting the Administrator to pick a month and year
- 6. The Administrator selects their desired month and year
- The system responds by displaying a maintenance request list for that specific month and year

Exit Condition (s):

The Administrator has successfully generated maintenance request list.

Alternatives:

None

Exceptions:

None

Use Case Name: Process teachers Timetable

Use Case Description:

The Administrator wants to process the teacher's timetable

Participating Actor(s):

Administrator

Entry Conditions:

The Administrator is successfully logged in and is on the dashboard

Flow of Events:

- 1. The system responds by invoking the use case Display Dashboard
- 2. The Administrator clicks the teachers timetables section
- 3. The System invokes the use case View teachers Details
- 4. The Administrator clicks on the process timetable for teachers' button on the view teachers details page
- 5. The system then generates a table consisting available days and registered courses.
- The Administrator selects the room, course, and time from the dropdown to allocate a valid room and course into each available timeslot of the teachers timetable and requests the Administrator to click process or cancel button When finished.
 - 6.1 If the Administrator selects the process button
 - 6.1.1 The system responds by re-displaying the teachers generated timetable details and displays a confirmation message to the Administrator indicating the teachers timetable has been successfully generated.
 - 6.2 If the Administrator selects the cancel button
 - 6.2.1 The system responds by displays the use case "Display Dashboard".

Exit Condition (s):

The Administrator has now processed the Teachers timetable

Alternatives:

None

Exceptions:

The criteria did not match any data contained on the server

Use Case Name: Book a course

Use Case Description:

A Student want to book a course

Participating Actor(s):

Student

Entry Conditions:

The student is now successfully logged in and is now on the dashboard

Flow of Events:

- The system responds by invoking the use case Display Dashboard.
 The student clicks on the course section on the dashboard.
- 3. The System responds by displaying a list of courses
- 4. The student then would click on the specific course they would like to book.
- 5. The system responds then by displaying the courses details with a book and cancel button
 - 5.1 if the student clicks the book button
 - the system will display the payment section
 - 5.2 if the student clicks cancel
 - 5.2.1 the system will; display the list of courses page
- 6. the student enters a payment method
 - 6.1 if the student clicks the pay button
 - the system will display conformation of payment page 6.1.1
 - 6.2 if the student clicks cancel
 - 6.2.1 the system will display the use case "View Courses" page

Exit Condition (s):

The student has successfully booked a course

Alternatives:

None

Exceptions:

None

Use Case Name: Delete Staff/Teacher Details

Use Case Description:

The Administrator wants to Delete a staff/Teacher

Participating Actor(s):

Administrator

Entry Conditions:

The Administrator is now successfully logged in and is now on the dashboard

Flow of Events:

- 1. The system responds by invoking the use case "View staff/teachers Details"
- 2. The Administrator enters a search criterion of a particular Staff/teachers that they are looking for
- 3. The Administrator clicks the search button
- 4. The system responds by displaying a result of the matched criteria entered from the search bar
- 5. The Administrator clicks the delete button on the staff/teacher they wish to delete
- 6. The System responds by displaying a confirmation page requesting the Administrator to confirm if he would like to delete the specific staff/teacher or cancel
 - 6.1 If the Administrator clicks delete
 - 6.1.1 The system responds by deleting the staff/teacher and displays the use case "View staff/teacher Details" Page
 - 6.2 If the Administrator clicks cancel
 - 6.2.1 The system responds by displaying a message saying that the staff/teacher has not been removed and displays the use case "View staff/teacher Details" Page

Exit Condition (s):

The Administrator has successfully removed a staff/teacher

Alternatives:

None

Exceptions:

The criteria did not match any data contained on the server

Use Case Name: View Timetable (Student)

Use Case Description:

The student wishes to view a timetable for given course

Participating Actor(s):

Student

Entry Conditions:

• The User is successfully logged in and are on the dashboard

Flow of Events:

- 1. The system responds by invoking the use case "Display Dashboard"
- 2. The user clicks on the timetable section from the dashboard
- 3. The system then responds by displaying a list of information the user must choose (the department, the course modules, and the weeks of the timetable) and shows the view timetable button.
- 4. The student then responds by choosing in the necessary information and clicks the show timetable button
- 5. The system then responds by showing the timetable that matches your results

Exit Condition (s):

The student successfully viewed their timetable

Alternatives:

None

Exceptions:

The criteria did not match any data contained on the server

Use Case Name: Change Registered Details (User)

Use Case Description:

The student wishes to change their registered details

Participating Actor(s):

Student

Entry Conditions:

The User is successfully logged in and are on the dashboard

Flow of Events

- 1. The system responds by invoking the use case "Display Dashboard"
- 2. The student then clicks on their account details section
- 3. the system responds by showing students account details page with an edit button
- 4. the student responds by selecting the edit button
- 5. the system responds by showing inserts for specific details on there profile with an update button
- 6. The Student changes the information he would like to change for example the name, date of birth, email address, address and phone number and then has the choice to update it or cancel it.
 - 6.1 if the student selects update
 - 6.1.1 the system responds by showing students information page with the updated details
 - 6.2 if the student clicks cancel
 - 6.2.1 The system responds by displaying a message saying that your account has not been update and returns to the student's information page

Exit Condition (s):

The student successfully changed there register details

Alternatives:

None

Exceptions:

None

Use Case Name Maintenance Request Form

Use Case Description:

The staff/teachers want to make a maintenance request

Participating Actor(s):

staff/teachers

Entry Conditions:

The staff/teacher is successfully logged in and are on the dashboard

Flow of Events:

- 1. The system responds by invoking the use case "Display Dashboard"
- 2. The staff/Teacher clicks on the maintenance request section
- 3. The system responds by displaying a page with a form asking for details of the staff/teacher (name, lecture room, phone number, email) and a discerption box with a send button
- 4. The Staff/teacher writes down the necessary information and clicks the send button
- The system responds by with a conformation page asking if they are sure that they want to send or cancel
 - 5.1 if the staff/teacher clicks yes
 - 5.1.1 The system will send the form
 - 5.2 If the staff/teacher sends cancel
 - 5.2.1 The system will return to the maintenance form page

Exit Condition (s):

The staff/Teacher successfully sent the maintenance request form

Alternatives:

None

Exceptions:

if the staff/teacher doesn't fill out everything on the form an error message will show saying you need to write in all the necessary information

Use Case Name: Update Student Details

Use Case Description:

The Admin wants to update student details in the system

Participating Actor(s):

Admin

Entry Conditions:

- The Admin would like to update student details on the website
- The Login function of the system has been invoked from the Home Page Menu
- The Admin is successfully logged in and is on the dashboard

Flow of Events:

- 1. The system responds by invoking the "View Student Details" use case
- 2. The Admin clicks the update button for the specific student they would like to update the details for
- 3. The System responds by displaying a form with the specific student details
- 4. The Admin changes the necessary information that needs to be updated from that student details such as email, phone etc and clicks update or cancel.
 - 4.1 If the Admin clicks update
 - 4.1.1 The system responds by displaying the updated and new information of the specific student the admin had changed.
 - 4.2 If the Admin clicks cancel
 - 4.2.1 The system responds by displaying a message saying that the student details have not been updated and displays the student details list

Exit Condition (s):

The Admin has successfully updated student details

Alternatives:

None

Exceptions:

None

Use Case Name: Update Student Results

Use Case Description:

The Admin wants to update student results in the system

Participating Actor(s):

Admin

Entry Conditions:

- The Admin would like to update student results on the website
- The Login function of the system has been invoked from the Home Page Menu
- The Admin is successfully logged in and is on the dashboard

Flow of Events:

- 1. The system responds by invoking the "Display Dashboard" use case
- 2. The Admin clicks on the Student Results Section
- The system responds by displaying the Student Results Section, which contains all the names of the current exams being held
- 4. The Admin clicks the exam of the specific student they would like to update the exam results for
- 5. The System responds by displaying a list of all the students in that exam
- 6. The Admin clicks the name of the specific student they would like to update the exam results for
- 7. The System responds by displaying a area displaying the students exam results
- 8. The Admin update the exam results that needs to be updated such as Grade, Percentage etc and clicks update or cancel.
 - 8.1 If the Admin clicks update
 - 8.1.1 The system responds by displaying the updated exam results of the specific student.
 - 8.2 If the Admin clicks cancel
 - 8.2.1 The system responds by displaying a message saying that the student exam results have not been updated and displays the student list

Exit Condition (s):

The Admin has successfully updated student exam results

Alternatives:

None

Exceptions:

None

Use Case Name: Book a lesson

Use Case Description:

The Student wants to book a Lesson

Participating Actor(s):

Student

Entry Conditions:

- The Student would like to book a lesson on the website
- The Login function of the system has been invoked from the Home Page Menu
- The Student is successfully logged in and is on the dashboard

Flow of Events:

- 1. The system responds by invoking the "Display Dashboard" use case
- 2. The Student clicks on the Lesson Section in the dashboard
- 3. The system responds by displaying the Lesson Section page and lists all the lessons
- 4. The Student clicks the book button for the specific lesson they would like to enrol in
- 5. The System responds by displaying the payment sections
- 6. The Student enters in their payment details
 - 6.1 If the student clicks the book button
 - 6.1.1 The system responds by displaying confirmation of payment
 - 6.2 If the student clicks the cancel button
 - 6.2.1 The system responds by returning the student to the lesson page

Exit Condition (s):

The Student has successfully booked a lesson.

Alternatives:

None

Exceptions:

None

Use Case Name: Generate Monthly Sales Report from Private Tuition

Use Case Description:

The Admin wants to generate monthly sales report from private Tuition

Participating Actor(s):

Admin

Entry Conditions:

- The Admin would like to generate monthly sales report from private Tuition on the website
- The Login function of the system has been invoked from the Home Page Menu
- The Admin is successfully logged in and is on the dashboard

Flow of Events:

- 1. The system responds by invoking the use case "Display Dashboard"
- 2. The Admin clicks the generate monthly reports section on the dashboard
- 3. The System responds by displaying a list of all the monthly reports
- 4. The Admin clicks the private tuition sales report
- 5. The Systems displays a calendar requesting the admin to pick a month and year
- 6. The Admin selects their desired month and year
- 7. The system responds by displaying a monthly sales report for the private tuition sales for that specific month and year

Exit Condition (s):

The Admin has successfully generated monthly sales report from private tuition sales

Alternatives:

None

Exceptions:

None

Use Case Name: Generate Monthly Sales Report From Fulltime Course

Use Case Description:

The admin wants to generate monthly sales report from fulltime courses

Participating Actor(s):

Admin

Entry Conditions:

- The Admin would like to generate monthly sales report from fulltime courses
- The Login function of the system has been invoked from the Home Page Menu
- The Admin is successfully logged in and is on the dashboard

Flow of Events:

- 1. The system responds by invoking the use case "Display Dashboard"
- 2. The Admin clicks the generate monthly reports section of the dashboard
- 3. The System responds by displaying a list of all the monthly reports
- 4. The Admin clicks the Fulltime Course Sales Report
- 5. The System displays a calendar requesting the admin to pick a month and year
- 6. The Admin selects their desired month and year
- 7. The system responds by displaying a monthly sales report for the full time courses for that specific month and year

Exit Condition (s):

The Admin has successfully generated monthly sales report from full time courses

Alternatives:

None

Exceptions:

None

Use Case Name: Update Course Details

Use Case Description:

The Administration wishes to update the details of a course

Participating Actor(s):

Admin

Entry Conditions:

- The admin would like to update the details listed on a particular course
- The login function of the system has been invoked from the Home Page Menu
- The Admin has successfully logged in and is on the Dashboard

Flow of Events:

- 1. The system responds by invoking the use case "Display Dashboard"
- 2. The Admin clicks the view courses button
- 3. The system responds by displaying the list of courses
- 4. The admin clicks on Edit beside the course listing
- 5. The system responds with displaying the course details in editable text boxes
- 6. The admin makes changes to the course details and clicks Save
- 7. The system responds by saving the newly inputted information & brings the admin back to the course listing page

Exit Condition (s):

The admin has successfully update the details on a course

Alternatives:

None

Exceptions:

None

Use Case Name: Purchase A Book

Use Case Description:

A user wishes to purchase a book from the academy

Participating Actor(s):

Registered & non-registered users

Entry Conditions:

The user has navigated to the products page of the website

Flow of Events:

- 1. The user clicks on the "Add To Cart" button beside a product
 - 1.1 The user navigates to another product
 - 1.2 The user clicks on the "Add To Cart" button beside the product
- 2. The user clicks on the "Checkout" button in the navigation bar
- 3. The system responds with an order details screen
- 4. The user enters their details and clicks purchase
- The system responds with a confirmation message containing their order details

Exit Condition (s):

The user has successfully purchased a book from the website

Alternatives:

None

Exceptions:

None

Use Case Name: Update Event Details

Use Case Description:

The Administration wishes to update the details of a listed event

Participating Actor(s):

Admin

Entry Conditions:

- The admin would like to update the details of a listed event
- The login function of the system has been invoked from the Home Page Menu
- The Admin has successfully logged in and is on the Dashboard

Flow of Events:

- 1. The system responds by invoking the use case "Display Dashboard"
- 2. The Admin clicks the view events button
- 3. The system responds by displaying the list of events
- 4. The admin enters the event details they wish to edit in the search bar
- 5. The system responds with displaying the events that match the criteria
- 6. The admin clicks on the Edit button beside the event
- 7. The system responds by displaying the events details in editable text boxes
- 8. The admin modifies the event details and clicks save
- 9. The system responds by saving the event details and returning to the event listings

Exit Condition (s):

The admin has successfully update an events details

Alternatives:

None

Exceptions:

None

Use Case Name: View Exam Details By Location

Use Case Description:

The user wishes to view exams being held in a listed location

Participating Actor(s): Student / Teacher

Entry Conditions:

The user is on the SAOM website

Flow of Events:

- The user clicks on 'View Available Exams'
 The system responds with a list of all available exams
- 3. The user narrows down their search based on location using the onscreen tools
- 4. The system responds by showing available exams in the specified location

Exit Condition (s):

■ The user can see what exams are currently available in a given location

Alternatives:

None

Exceptions:

None

Use Case Name: View Timetable (Teacher)

Use Case Description:

The teacher wishes to view a timetable for a given course

Participating Actor(s):

Teacher

Entry Conditions:

The teacher is on the SAOM website homepage

Flow of Events:

- The user clicks on Timetables
 The system responds by displaying a list of all timetables and search tools
- 3. The user narrows down their search using the search tools on screen
- 4. The system responds by displaying only the relevant courses matching the search query
- 5. The user clicks on View Timetable beside the course they wish to view the timetable of
- 6. The system responds by displaying the timetable for the selected course

Exit Condition (s):

The user has successfully viewed the timetable they wish to see

Alternatives:

None

Exceptions:

None

Use Case Name: Add New Course Details

Use Case Description:

Administration wishes to add a new course to SAOMs listings

Participating Actor(s):

Administration

Entry Conditions:

- The login function has been invoked from the Home Page Menu
- The admin has successfully logged in and is on the Dashboard

Flow of Events:

- 1. The user clicks on Courses
- 2. The system responds by displaying a list of courses currently run by SAOM
- 3. The user clicks on Add New Course
- 4. The system responds by displaying the Add New Course input form
- 5. The user inputs the new course details and clicks save
- 6. The system responds by saving the inputted details and shows a confirm page outlining the details input by the user

Exit Condition (s):

Administration have successfully added a new course to SAOMs curriculum

Alternatives:

None

Exceptions:

None

Use Case Name: Delete A Book

Use Case Description:

Administration wish to remove a purchasable-book from the SAOM website

Participating Actor(s):

Administration

Entry Conditions:

- The login function has been invoked from the Home Page
- The admin has successfully logged in and is on the Dashboard

Flow of Events:

- 1. The user clicks on Store Management
- 2. The system responds by displaying the Store Management screen
- 3. The user clicks on View Products
- 4. The system responds by displaying a list of products currently sold by SAOM
- 5. The user clicks on the Delete button beside the product listing they wish to remove
- 6. The system responds by removing the product from the list of products

Exit Condition (s):

Administration have successfully removed a Book from the online store

Alternatives:

None

Exceptions:

None

Use Case Name: Delete Student

Use Case Description:

Administration wish to remove a student from the systems database

Participating Actor(s):

Administrators

Entry Conditions:

- The log in function has been invoked from the Home Page Menu
- The user has successfully logged in and is on the Dashboard

Flow of Events:

- 1. The user clicks on View Students from the Dashboard
- 2. The system responds by displaying a list of all students registered to SAOM
- 3. The user narrows down their search using the search tools bar
- 4. The system responds by refining the list of results
- 5. The user clicks on the Delete button beside the listed student
- 6. The system responds with a confirmation dialog box
- 7. The user clicks on Yes
- 8. The system removes the student from the database
- 9. The system returns the user back to the student listing page

Exit Condition (s):

Administration have successfully removed a student from the database

Alternatives:

None

Exceptions:

None

Use Case Name: Generate Monthly Sales Report From External Exams

Use Case Description:

The admin wants to generate monthly sales report from external exams

Participating Actor(s):

Admin

Entry Conditions:

- The Admin would like to generate monthly sales report from fulltime courses
- The Login function of the system has been invoked from the Home Page Menu
- The Admin is successfully logged in and is on the dashboard

Flow of Events:

- 1. The system responds by invoking the use case "Display Dashboard"
- 2. The Admin clicks the generate monthly reports section of the dashboard
- 3. The System responds by displaying a list of all the monthly reports
- 4. The Admin clicks the External Exams Sales Report
- 5. The System displays a calendar requesting the admin to pick a month and year
- 6. The Admin selects their desired month and year
- 7. The system responds by displaying a monthly sales report for the external exams for that specific month and year

Exit Condition (s):

The Admin has successfully generated a monthly sales report for external examinations

Alternatives:

None

Exceptions:

None

Use Case Name: Search Functionality

Use Case Description:

The User wants to narrow down a list of results or potential results

Participating Actor(s):

Non-Registered User, Student, Teacher, Admin, Examiner

Entry Conditions:

The User is currently on a page with a list of results, potential results

Flow of Events:

- 1. The User enters a search criteria of what they are looking for into the search bar text box
- 2. The User clicks the search button
- The System responds by getting a list of results matching the inputted search criteria and displaying them on screen

Exit Condition (s):

The User has successfully narrowed down a list of potential results to a finite list relating to what they
are looking for on the site

Alternatives:

- Can be used for searching Students by ID
- Can be used for searching Courses by Course Code / Course Name
- Can be used for searching Books by Book Name / Book ID / Book Category
- Can be used for getting a specific Timetable by searching Course Code / Course Name
- Can be used for searching for Staff by ID
- Can be used for searching for an Exam by Location / Category

Exceptions:

The criteria did not match any data contained on the server

Use Case Name: Delete Event Details

Use Case Description:

Administration wishes to delete event details

Participating Actor(s):

Administrators

Entry Conditions:

- The log in function has been invoked from the Home Page Menu.
- The admin has successfully logged in and is on the Dashboard.
- The admin to delete details for a specific event.

Flow of Events:

- 1. The admin clicks on View Events from the Dashboard
- 2. The system responds by displaying a list of all events
- 3. The admin clicks on the Delete button beside the listed event
- 4. The system responds with a confirmation dialog box with yes or cancel.
- 5. 1 If the admin selects yes.
 - 5.1.1. The selected event is deleted.
- 5.2 If the admin selects cancel.
 - 5.2.1 The admin is returned to event listing page.

Exit Condition (s):

Administration have successfully deleted details for a specific event.

Alternatives:

None

Exceptions:

None

Use Case Name: Generate Annual Sales Report From All Facets Of Business Including Book Sales And Box Office Sales

Use Case Description:

The admin wants to generate monthly sales report from external exams

Participating Actor(s):

Admin

Entry Conditions:

- The Admin would like to generate monthly sales report from fulltime courses
- The Login function of the system has been invoked from the Home Page Menu
- The Admin is successfully logged in and is on the dashboard

Flow of Events:

- 1. The system responds by invoking the use case "Display Dashboard"
- 2. The Admin clicks the generate annual sales reports section of the dashboard
- 3. The System responds by displaying a list of all the annual reports
- 4. The Admin selects all the all facets of business report
- 5. The System requests the admin to enter year
- 6. The Admin selects the year
- 7. The system responds by displaying the sales report for all facets of business for that specific year

Exit Condition (s):

The Admin has successfully generated an annual sales report for all facets of business

Alternatives:

None

Exceptions:

None

Use Case Name: Process External Exam (Allocate Examiner To Centre)

Use Case Description:

Administration wish to remove a student from the systems database

Participating Actor(s):

Administrators

Entry Conditions:

- The log in function has been invoked from the Home Page Menu
- The user has successfully logged in and is on the Dashboard

Flow of Events:

- 1. The Admin clicks on View Examiners from the Dashboard
- 2. The system responds by displaying a list of all external examiners
- 3. The Admin selects an examiner
- 4. The System responds by giving the Admin a selection of centres to choose from
- 5. The Admin selects the desired centre
- 6. The System responds by giving the Admin the option to select allocate or cancel
- 7. If the Admin selects allocate
 - 7.1 The System responds with a confirmation message that the examiner has ben allocated to the specified centre
- 8. If the Admin selects cancel
 - 8.1 The System invokes the view examiners use case

Exit Condition (s):

Administration have successfully processed and external examiner

Alternatives:

None

Exceptions:

None

Use Case Name: Register Student

Use Case Description:

Administration wishes to register a student

Participating Actor(s):

Administrators

Entry Conditions:

- The log in function has been invoked from the Home Page Menu
- The user has successfully logged in and is on the Dashboard

Flow of Events:

- 1. The Admin selects View Students from the Dashboard
- 2. The system responds by displaying a list of all students registered to SAOM
- 3. The Admin then selects register student
- 4. The System responds by displaying a form to enter the student details, where accept or cancel can be selected
- 5. If the Admin enters the student details and selects accept form submission
 - 5.1 The System displays confirmation of the Students registration.
- 6. If the Admin selects cancel
 - 6.1 The System invokes the view students use case

Exit Condition (s):

Administration have successfully registered a student

Alternatives:

None

Exceptions:

None

Use Case Name: Update items to Teachers Area

Use Case Description:

The Staff updates items to the Teachers Area

Participating Actor(s):

Staff

Entry Conditions:

- The Staff would like to update items to the teacher's area on the website
- The Login function of the system has been invoked from the Home Page Menu
- The Staff is successfully logged in and is on the dashboard

Flow of Events:

- 1. The System responds by invoking the "Display Dashboard" use case
- 2. The Staff clicks on the Teachers Area Forum section in the dashboard
- 3. The system responds by displaying the Teachers Area Forum page
- 4. The Staff clicks the update button for the specific item they would like to update to the teacher's area
- 5. The System responds by displaying a text box to update the field
- 6. The Staff clicks the update button
- 7. The System responds by displaying a confirmation box, asking the staff if they want to confirm their choice with yes or to cancel their choice with cancel.
 - 7.3 If the Staff clicks yes
 - 7.3.1 The item is updated
 - 7.4 If the Staff clicks cancel
 - 7.4.1 Staff is returned to the Teacher's area

Exit Condition (s):

The Staff has successfully updated items in the teacher's area

Alternatives:

None

Exceptions:

None

Use Case Name: View Book Orders

Use Case Description:

Administration wants to view book orders

Participating Actor(s):

Administrators

Entry Conditions:

- The log in function has been invoked from the Home Page Menu
- The user has successfully logged in and is on the Dashboard

Flow of Events:

- The system responds by invoking the function "Display dashboard"
 The admin selects view book orders
- 3. The system responds by displaying a list of the book orders
- 4. The admin can use the search function to filter to the selected field
- 5. The system responds by displaying the refined list of book orders

Exit Condition (s):

Administration has successfully viewed the list of book orders

Alternatives:

None

Exceptions:

None

Use Case Name: View Staff Details

Use Case Description:

Administration wants to view staff details

Participating Actor(s):

Administrators

Entry Conditions:

- The log in function has been invoked from the Home Page Menu
- The user has successfully logged in and is on the Dashboard

Flow of Events:

- The system responds by invoking the function "Display dashboard"
 The admin clicks on View Staff from the Dashboard
- 3. The system responds by displaying a list of all staff registered to SAOM
- 4. The admin narrows down their search using the search tools bar
- 5. The system responds by refining the list of results

Exit Condition (s):

Administration has successfully viewed staff details

Alternatives:

None

Exceptions:

None

Use Case Name: Add book

Use Case Description:

Administration wants to view book orders

Participating Actor(s):

Administrators

Entry Conditions:

- The log in function has been invoked from the Home Page Menu
- The user has successfully logged in and is on the Dashboard

Flow of Events:

- 1. The system responds by invoking the function "Display dashboard"
- 2. The admin selects view books
- 3. The system responds by displaying a list of the books
- 4. The admin selects the add book button
- The system displays a form for the admin to enter necessary details, such as book name and author. The admin can click add or cancel
- 6. If the Admin selects add

The system responds by displaying the newly added book in the list of books

7. If the Admin selects cancel

The system responds by invoking the function view books

Exit Condition (s):

Administration has successfully added the list of books

Alternatives:

None

Exceptions:

None

Use Case Name: Add Staff/Teacher

Use Case Description:

Administration wants to add Staff/Teacher

Participating Actor(s):

Administrators

Entry Conditions:

- The log in function has been invoked from the Home Page Menu
- The user has successfully logged in and is on the Dashboard

Flow of Events:

- 1. The system responds by invoking the function "Display dashboard"
- 2. The admin selects view staff/teacher
- 3. The system responds by displaying a list of all staff/teachers
- 4. The admin selects the add staff/teacher button
- 5. The system displays a form for the admin to enter necessary details, such as student/staff name, email address and address. The admin can click add or cancel
- 6. If the Admin selects add

The system responds by displaying the newly added staff/teacher in the list of staff/teachers

7. If the Admin selects cancel

The system responds by invoking the function view staff/teacher

Exit Condition (s):

Administration has successfully added a staff/teacher

Alternatives:

None

Exceptions:

None

Use Case Name: Book an Exam

Use Case Description:

A Student want to book an exam

Participating Actor(s):

Student

Entry Conditions:

The student is now successfully logged in and is now on the dashboard

Flow of Events:

- The system responds by invoking the use case Display Dashboard.
 The student clicks on the exam section on the dashboard.
- 3. The System responds by displaying a list of courses
- 4. The student selects the exam they would like to book.
- 5. The system responds then by displaying the exams details with a book and cancel button
 - 5.1 If the student clicks the book button
 - The system will display the payment section, where the student enters their payment details
 - 5.2 If the student clicks cancel
 - 11.2.1 The student is returned to the exam listing page
- 6. The student enters a payment method, then the student can enter either pay or cancel
 - 6.1 If the student clicks the pay button
 - The system will display the payment confirmation page 6.1.1
 - 6.2 If the student clicks cancel
 - 6.2.1 The system invokes the Display Exams function

Exit Condition (s):

The student has successfully booked an exam

Alternatives:

None

Exceptions:

None

Use Case Name: Delete Course Details

Use Case Description:

Administration wishes to delete event details

Participating Actor(s):

Administrators

Entry Conditions:

- The log in function has been invoked from the Home Page Menu.
- The admin has successfully logged in and is on the Dashboard.
- The admin to delete details for a specific event.

Flow of Events:

- 1. The admin clicks on View Courses from the Dashboard
- 2. The system responds by displaying a list of all courses
- 3. The admin clicks on the Delete button beside the listed event
- 4. The system responds with a confirmation dialog box with yes or cancel.
- 5. 1 If the admin selects yes.
 - 5.1.1. The selected course is deleted.
- 5.2 If the admin selects cancel.
 - 5.2.1 The admin is returned to course listing page.

Exit Condition (s):

Administration have successfully deleted details for a specific course.

Alternatives:

None

Exceptions:

None

Use Case Name: Display Dashboard

Use Case Description:

The Admin wants to Display Dashboard

Participating Actor(s): Admin

Entry Conditions:

- The Login function of the system has been invoked from the Home Page Menu The Admin is successfully logged in and is on the dashboard

Flow of Events:

- 1. The student logs in
- 2. The system responds by displaying Display Dashboard

Exit Condition (s):

The Admin has successfully Displayed Dashboard

Alternatives:

None

Exceptions:

None

Use Case Name: Generate Monthly Sales Report From Book Sales

Use Case Description:

The admin wants to generate monthly sales report from book sales

Participating Actor(s):

Admin

Entry Conditions:

- The Admin would like to generate monthly sales report from fulltime courses
- The Login function of the system has been invoked from the Home Page Menu
- The Admin is successfully logged in and is on the dashboard

Flow of Events:

- 1. The system responds by invoking the use case "Display Dashboard"
- 2. The Admin clicks the generate monthly reports section of the dashboard
- 3. The System responds by displaying a list of all the monthly reports
- 4. The Admin clicks the Book Sales Report
- 5. The System prompts the users to enter a year and a month to generate a report for
- 6. The Admin selects their month and year
- 7. The System responds by displaying a monthly sales report for the book sales for the specified year and month

Exit Condition (s):

The Admin has successfully generated a monthly sales report for book sales

Alternatives:

None

Exceptions:

None

Use Case Name: Generate Results Sheet

Use Case Description:

The admin wants to generate results sheet

Participating Actor(s):

Admin

Entry Conditions:

- The Admin would like to generate monthly sales report from fulltime courses
- The Login function of the system has been invoked from the Home Page Menu
- The Admin is successfully logged in and is on the dashboard

Flow of Events:

- 1. The System responds by invoking the use case "Display Dashboard"
- 2. The Admin clicks the generate results section of the dashboard
- 3. The System responds by displaying a list of all the options to select from
- 4. The Admin is prompted to confirm their choice by either selecting accept or cancel
- 5. If the Admin clicks accept
- 6. The results sheet is generated for the selected option
- 7. If the Admin clicks cancel
- 8. The System returns to the list of options to generate results from

Exit Condition (s):

The Admin has successfully generated a results sheet

Alternatives:

None

Exceptions:

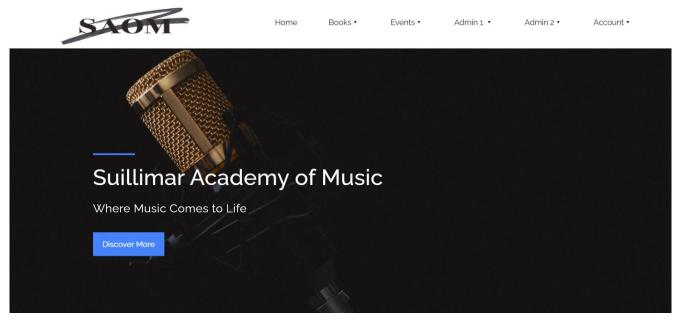
None

4. DESIGN - PROTOTYPING

4.1. Design Management

- ✓ Overall Theme/Style: Modern, Clean and Fancy/Stylish
- ✓ Colour Schemes: Bright White/Blue/Pink Colors
- ✓ Page Banners/Graphics: hero image of music related pictures and typing text
 animation and graphics
- ✓ Navigation: Side Bar with animation and responsive unordered list and breadcrumbs will be used as highlighted text to identify where the user is on the website. Link structures are sorted by different categories
- ✓ Naming Conventions: Simple and descriptive tag/heading on the page

4.2. Prototyping



Header - By Fyaz, Joe, Dylan, Pierce



Mauris sit amet quam congue, pulvinar urna et, congue diam. Suspendisse eu lorem massa. Integer sit amet posuere tellus, id efficitur leo. In hac habitasse platea dictumst.









Useful Links

- Help FAQs
- Register
- Login
- My Profile
- How It Works?
- More About Us

Contact Information

Blog EntriesContact Us

Our Clients Praesent iaculis gravida elementum. Proin
 Partnerships Fermentum neque facilisis semper pharetra.

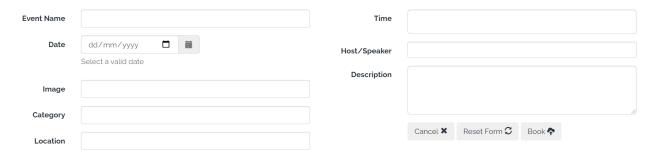
Phone: 010-050-0550
Email: hi@company.co
Address: company.co

Sed vestibulum vehicula tincidunt.

Copyright © 2020 SAOM - Design: Enigma Crackers

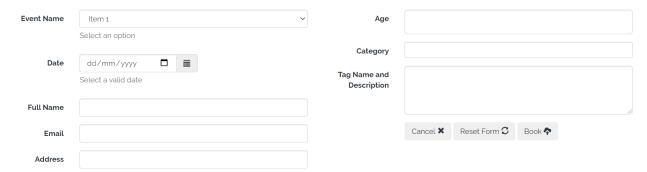
Footer - By Fyaz, Joe, Dylan, Pierce

Add an Event



Add an Event - By Fyaz

Book an Event



Book an Event - By Fyaz

Course ID	Course Name	Description	Level	Years	Update	Delete
1	Mark	Otto	@mdo	Mark	Otto	@mdo
2	Jacob	Thornton	@fat	Mark	Otto	@mdo
3	Larry	the Bird	@twitter	Mark	Otto	@mdo
4	Larry	the Bird	@twitter	Mark	Otto	@mdo
5	Larry	the Bird	@twitter	Mark	Otto	@mdo
6	Larry	the Bird	@twitter	Mark	Otto	@mdo
7	Larry	the Bird	@twitter	Mark	Otto	@mdo
8	Larry	the Bird	@twitter	Mark	Otto	@mdo
9	Larry	the Bird	@twitter	Mark	Otto	@mdo
10	Larry	the Bird	@twitter	Mark	Otto	@mdo

Courses List - By Fyaz

Select	Student ID	Full Name	Email	Phone	Update	Delete	Private Tuiton
	1	Mark	Otto	@mdo	Mark	Otto	@mdo
	2	Jacob	Thornton	@fat	Mark	Otto	@mdo
	3	Larry	the Bird	@twitter	Mark	Otto	@mdo
	4	Larry	the Bird	@twitter	Mark	Otto	@mdo
	5	Larry	the Bird	@twitter	Mark	Otto	@mdo
	6	Larry	the Bird	@twitter	Mark	Otto	@mdo
	7	Larry	the Bird	@twitter	Mark	Otto	@mdo
	8	Larry	the Bird	@twitter	Mark	Otto	@mdo
	9	Larry	the Bird	@twitter	Mark	Otto	@mdo
	10	Larry	the Bird	@twitter	Mark	Otto	@mdo

Process timetable for selected records

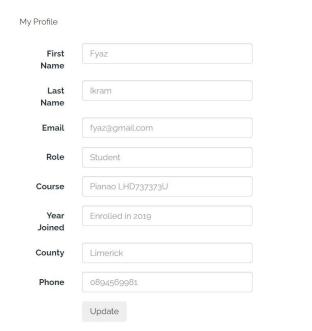
Student List - By Fyaz

Log in to SAOM

Email address	
Password	Forgot password?
Sign in	

Don't have an account? Create One

Login - By Fyaz

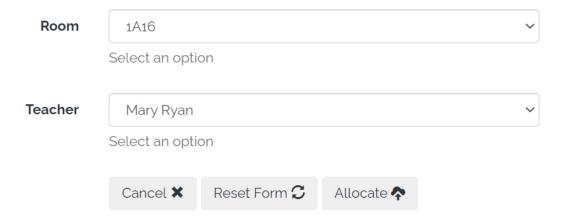




Image

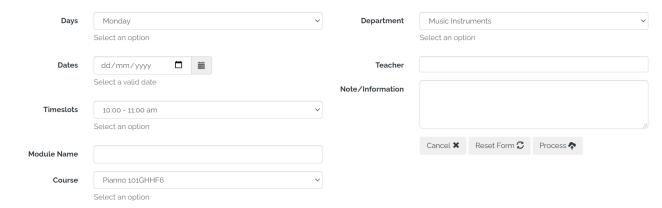
My Profile Page - By Fyaz

Allocate Private Tuiton for Student



Allocate Private Tuition for Student - By Fyaz

Process Student Timetable



Process Student Timetable - By Fyaz

Account Details	
First Name	Joe
Last Name	Moloney
Email	joe@gmail.com
Role	Teacher
Course	Violin LHD737373U
Year Joined	Enrolled in 2011
County	Cork
Phone	08936388821
	Undate

Image



Update Staff Details - By Fyaz

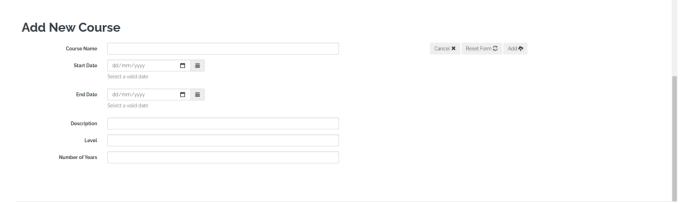
123 New Orders!	view Details > 13 New Tickets!	
View Details >	View Details >	
Updated yesterday at 11:59 PM		*100
■ My Courses		∴ Messages
		6.6
		Fyaz Ikramposted a new subject regarding pianno to SAOM.
		Today at 5:43 PM - 5m ago
		Remove Item Update Item
1/6/2		616
		Fyaz Ikramposted a new subject regarding pianno to SAOM.
	40	Today at 5:43 PM - 5m ago
e)	e e	Remove Item Update Item
	7	
		6:4
Course 1	Course 2	Fyaz Ikramposted a new subject regarding pianno to SAOM.
It is a long established fact that a reader will be distracted by the	It is a long established fact that a reader will be distracted by the	Today at 5:43 PM - 5m ago
readable content of a page when leaking at its lawruit. The point of using	readable content of a page when looking at its lavout. The point of using	Remove Item Update Item
0	en en	Remove Item Update Item
Course 1	Course 2	45 : 45
It is a long established fact that a reader will be distracted by the	It is a long established fact that a reader will be distracted by the	Fyaz Ikramposted a new subject regarding pianno to SAOM. Today at 5:43 PM - 5m ago
readable content of a page when looking at its layout. The point of using	readable content of a page when looking at its layout. The point of using	Remove Item Update Item
Lorem Ipsum is that it has a more-or-less normal distribution of letters.	Lorem Ipsum is that it has a more-or-less normal distribution of letters.	
as opposed to using 'Content here, content here', making it look like	as opposed to using 'Content here, content here', making it look like	61.6
readable English.	readable English.	
Remove Item Update Item	Remove Item Update Item	Fyaz Ikramposted a new subject regarding pianno to SAOM. Today at 5:43 PM - 5m ago
·		Remove Item Update Item
Functions	Functions	View all activity
Book Exam	Update Account	Updated yesterday at 11:59 PM
Book Event	Deactivate Account	
Apply to Teach Course	View Timetable	
My Profile		
About Me		
M. Posti		
My Profile		
About Me	and delta and	
It is a long established fact that a reader will be distracted by the r	eadable cont	
Remove Item Update Item		
Private Tution	Other Links	
Pierce Griffin - Violin - 8:00 - 9:00 am	Events	
Pierce Griffin - Violin - 8:00 - 9:00 am	Logout	
Pierce Griffin - Violin - 8:00 - 9:00 am	Books	
Pierce Griffin - Violin - 8:00 - 9:00 am	Exams	
Pierce Griffin - Violin - 8:00 - 9:00 am	Remove Item Upda	ate Item

11 New Tasks!

Teacher/Staff Area & Dashboard - By Fyaz

Remove Item Update Item

26 New Messages!



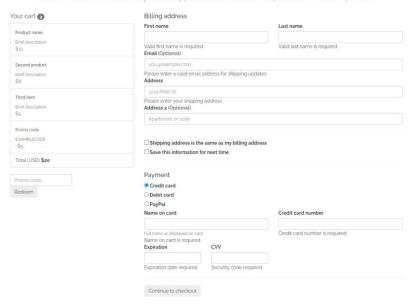
Add New Course - By Joe

Book a Lesson			
Lesson Name	Violin 1	•	Apply 🏞
	Select an option		
Full Name			
Email			
Student Number			

Book a Lesson - By Joe

Checkout For Your Books/Events and Exams

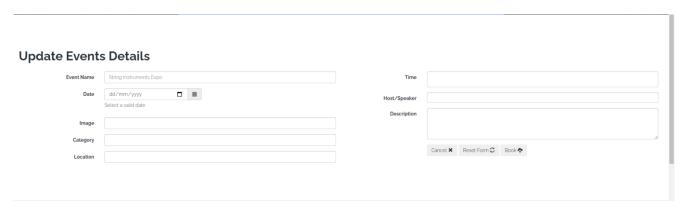
Below is a list of items added to your cart by you and this checkout is to purchase the items in your cart



Purchase Items - By Joe

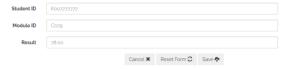
Course Violin Name Secription Fundamentals to playing the Violin Levet © OOI Levet 6
Name Fundamentals to playing the Violin
Fundamentals to playing the Violin
Level OOI Level 6
Level 6
Years 1 Year
Update
Update

Update Course Details - By Joe

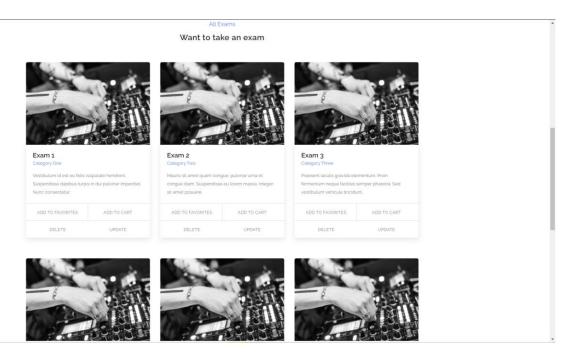


Add Event Details - By Joe

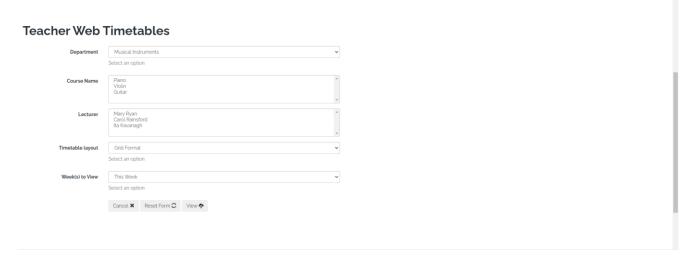
Update Students Results



Update Student Results - By Joe



View Exams - By Joe



Process Teacher Timetables - By Joe

Add a Book



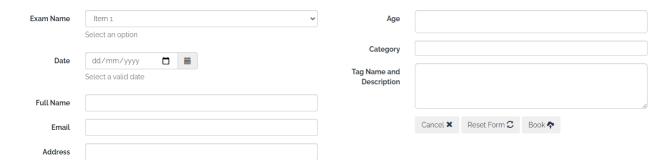
Add a Book - By Dylan

Add a Staff

First Name	Course				
Last Name	Year Joined				
Image	Phone				
Email		Cancel 🗙	Reset Form 2	Book 🏞	
Role					

Add a Staff - By Dylan

Book an Exam



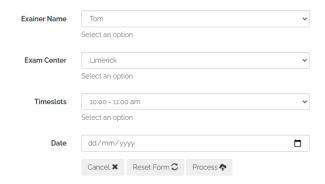
Book an Exam - By Dylan

Generate Result Sheet

Student ID				
Result				
	Cancel 🗙	Reset Form ${\mathcal Z}$	Generate 春	

Process Result Sheet - By Dylan

Process External Exams



Process External Exams - By Dylan

Register to SAOM

Email address
Password
First Name
Last Name
Student or Staff
Student O
Staff O
If Staff Enter Your Code
Sign up

Register to SAOM - By Dylan

Select	Staff ID	Full Name	Email	Phone	Update	Delete	Private Tuiton
	1	Mark	Otto	amdo	Mark	Otto	amdo
	2	Jacob	Thornton	@fat	Mark	Otto	amdo
	3	Larry	the Bird	atwitter	Mark	Otto	@mdo
	4	Larry	the Bird	atwitter	Mark	Otto	@mdo
	5	Larry	the Bird	atwitter	Mark	Otto	@mdo
	6	Larry	the Bird	atwitter	Mark	Otto	@mdo
	7	Larry	the Bird	atwitter	Mark	Otto	@mdo
	8	Larry	the Bird	atwitter	Mark	Otto	@mdo
	9	Larry	the Bird	atwitter	Mark	Otto	@mdo
	10	Larry	the Bird	atwitter	Mark	Otto	amdo

View Staffs - By Dylan

Book Order ID	Book ID	Name	Date	Update	Delete	Paid
1	Mark	Otto	amdo	Mark	Otto	amdo
2	Jacob	Thornton	@fat	Mark	Otto	amdo
3	Larry	the Bird	@twitter	Mark	Otto	amdo
4	Larry	the Bird	@twitter	Mark	Otto	amdo
5	Larry	the Bird	@twitter	Mark	Otto	amdo
6	Larry	the Bird	<pre>atwitter</pre>	Mark	Otto	amdo
7	Larry	the Bird	atwitter	Mark	Otto	amdo
8	Larry	the Bird	atwitter	Mark	Otto	amdo
9	Larry	the Bird	atwitter	Mark	Otto	amdo
10	Larry	the Bird	@twitter	Mark	Otto	amdo

View Book Orders - By Dylan



Add Items to Teachers Area - by Pierce

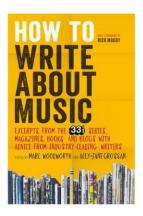


Book a Course - by Pierce

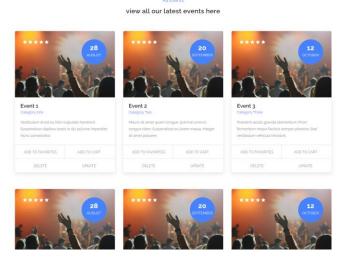


Process Teachers Timetable - by Pierce

Book Details	
Book Name	How To Write About Music
Author Name	Pierce Griffin
Price	50.00
Category	Violin
Year	5011
ISBN	3483204
	Update



Update a Book - by Pierce



View Events - by Pierce

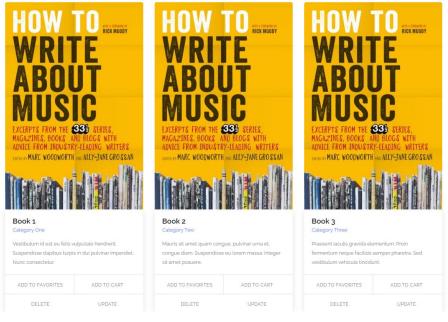
Student Web Timetables



View Student Timetables - by Pierce

All Books

view all our latest events here



View Book - by Pierce