

#### 4. User Interface Design and Navigation

The user interface design with its corresponding navigation for each form are shown in the following figures.

Student Activity Tracker Application

The login form is titled "Student Activity Tracker Application". It features a circular logo at the top center with the text "ST. MARK'S COLLEGE" and "FACULTY OF EDUCATION" around it. Below the logo is the word "WELCOME" in large blue letters. There are two input fields: one for "USERNAME" with a person icon and one for "PASSWORD" with a lock icon. A "Forgot Password?" link is located below the password field. A large blue "LOG IN" button is at the bottom. A "NOT AN ADMIN?" link is at the very bottom. Callouts on the right side point to the "EXIT BUTTON" (top right), "USERNAME" field, "PASSWORD" field, and "LOG IN" button.

Figure 4-1 Login Form

The login form requires the administrators to enter their username and Password. Only the personnel with an administrator account can successfully log in.

Navigation:

1. Open the student activity tracker application

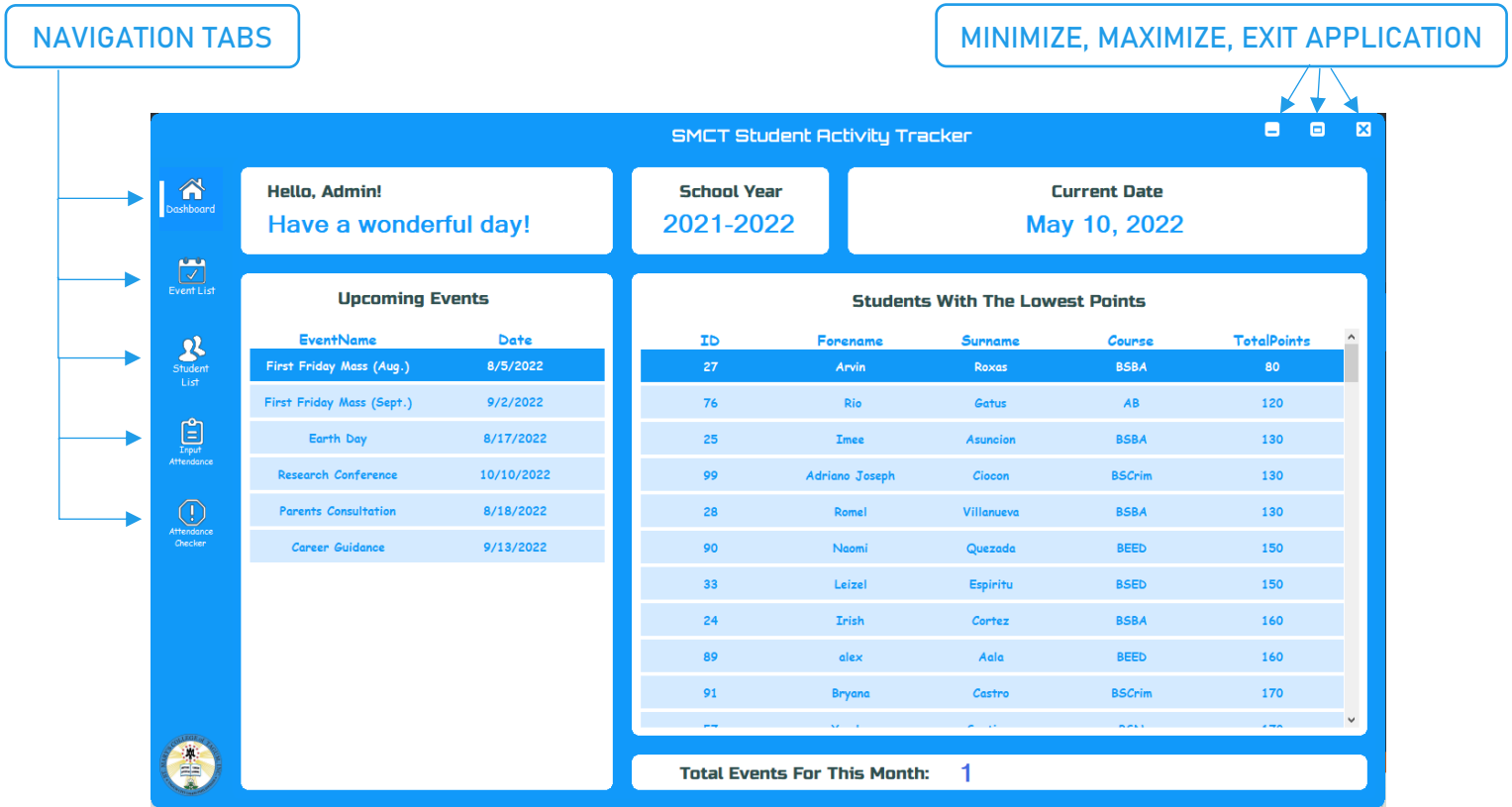


Figure 4-2 Dashboard

The Dashboard is the first tab that the administrators will see when they log in. This is where the administrator can see the upcoming events, the total events that will happen within the month, and the students with the lowest points.

Navigation for opening the tab:

1. Enter Username and Password on the login form
2. Click the 'Login' button

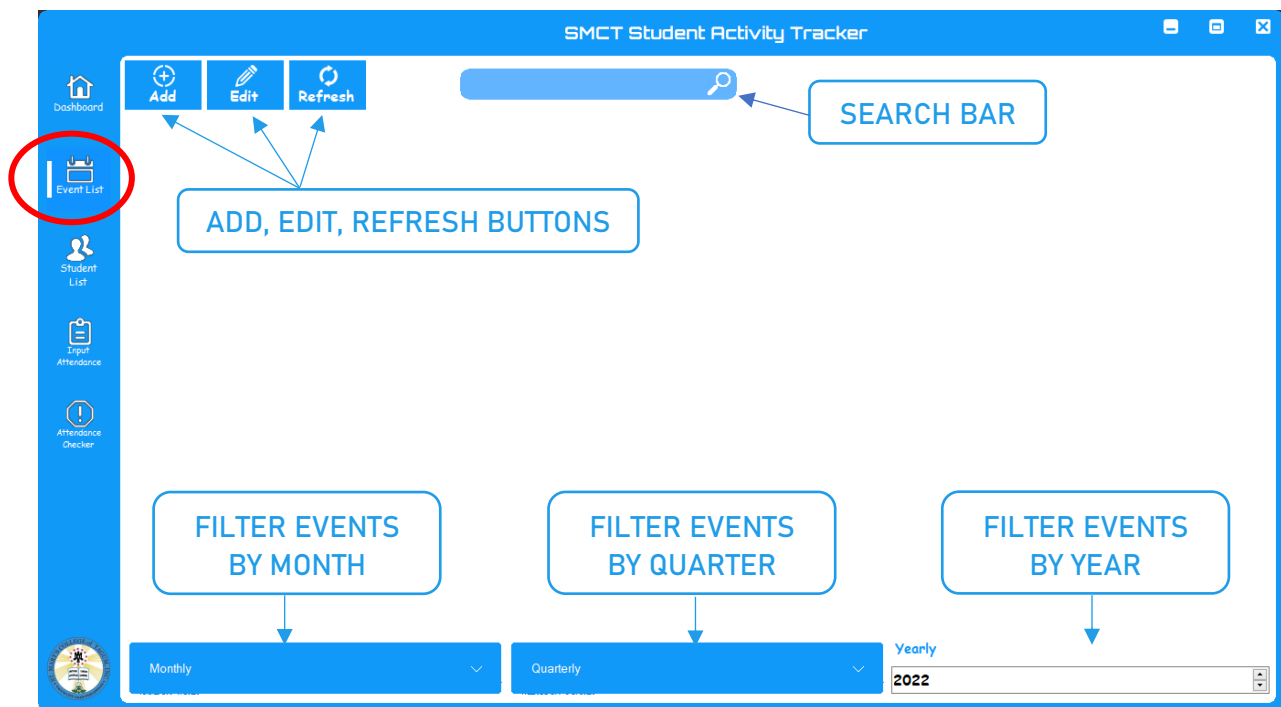


Figure 4-3.1 Event List Tab

This tab allows the administrators to view the events stored in the database by choosing a specific month or by choosing a quarter of the year at the bottom of the application.

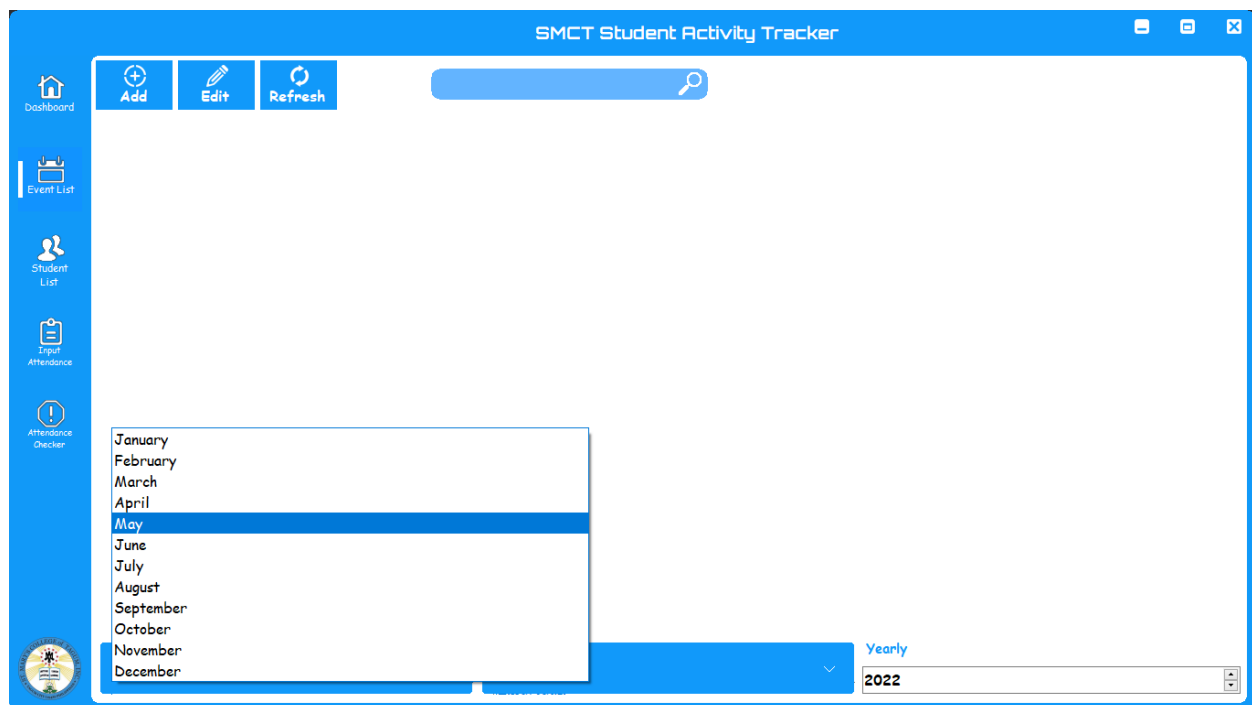


Figure 4-3.2 Event List Tab (Monthly)

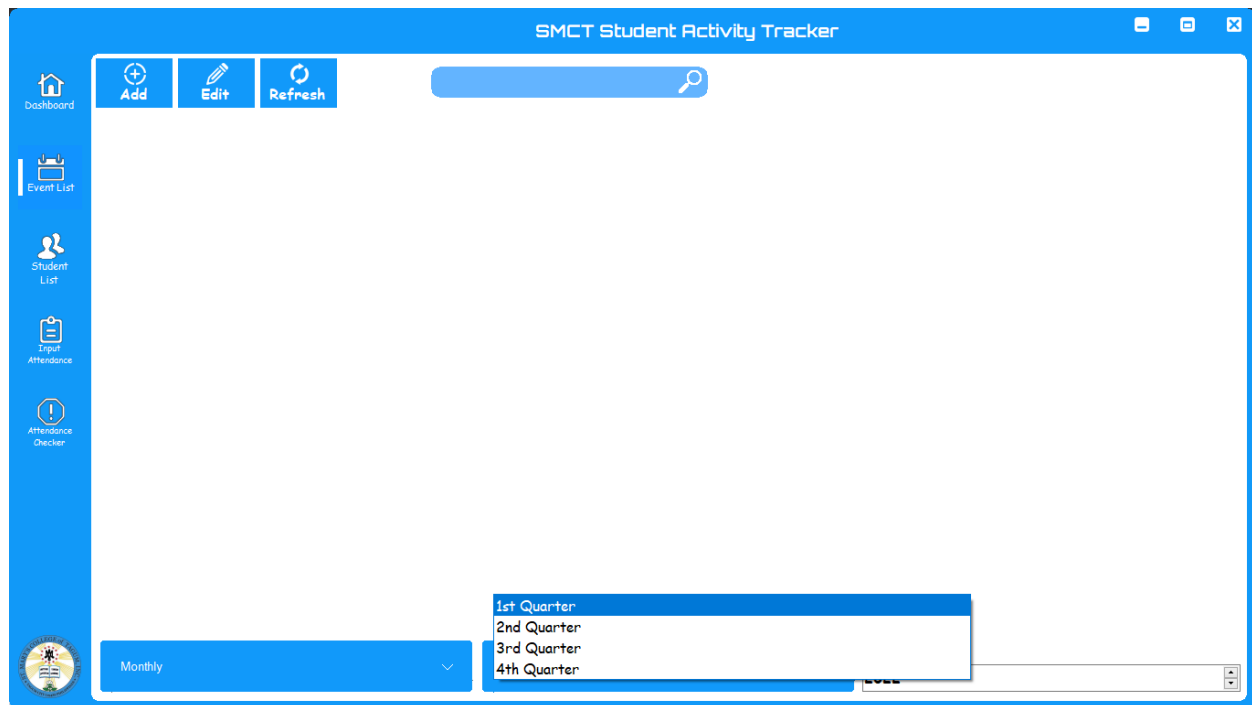


Figure 4-3.3 Event List Tab (Quarterly)

The screenshot shows the SMCT Student Activity Tracker application with the Event List Tab selected. The table displays the following data:

EventID	EventName	Location	Points	Date
1	Opening Ceremony	Gym	20	5/10/2022
2	Acquintance Party	Function Hall	50	5/10/2022
3	Intramurals (Day 1)	School Ground	30	5/10/2022
4	Intramurals (Day 2)	School Ground	30	5/10/2022
5	Intramurals (Day 3)	School Ground	40	5/10/2022
6	Teachers Day	Classroom	30	5/10/2022
7	Earth Day	Classroom	30	5/10/2022
8	Christmas Party	Gym	50	5/10/2022
9	Research Conference	Function Hall	20	5/10/2022
10	Parents Consultation	Classroom	30	5/10/2022
11	Career Guidance	Gym	30	5/10/2022
12	First Friday Mass (Aug.)	Gym	50	5/10/2022
13	First Friday Mass (Sept.)	Gym	50	5/10/2022
14	First Friday Mass (Oct.)	Gym	50	5/10/2022

The bottom of the screen shows a 'May' button, a 'Quarterly' button, and a 'Yearly' button with a date selector set to 2022.

Figure 4-3.4 Event List Tab (Month of May, 2022)

Navigation:

1. Click the 'Event List' tab on the left side of the screen

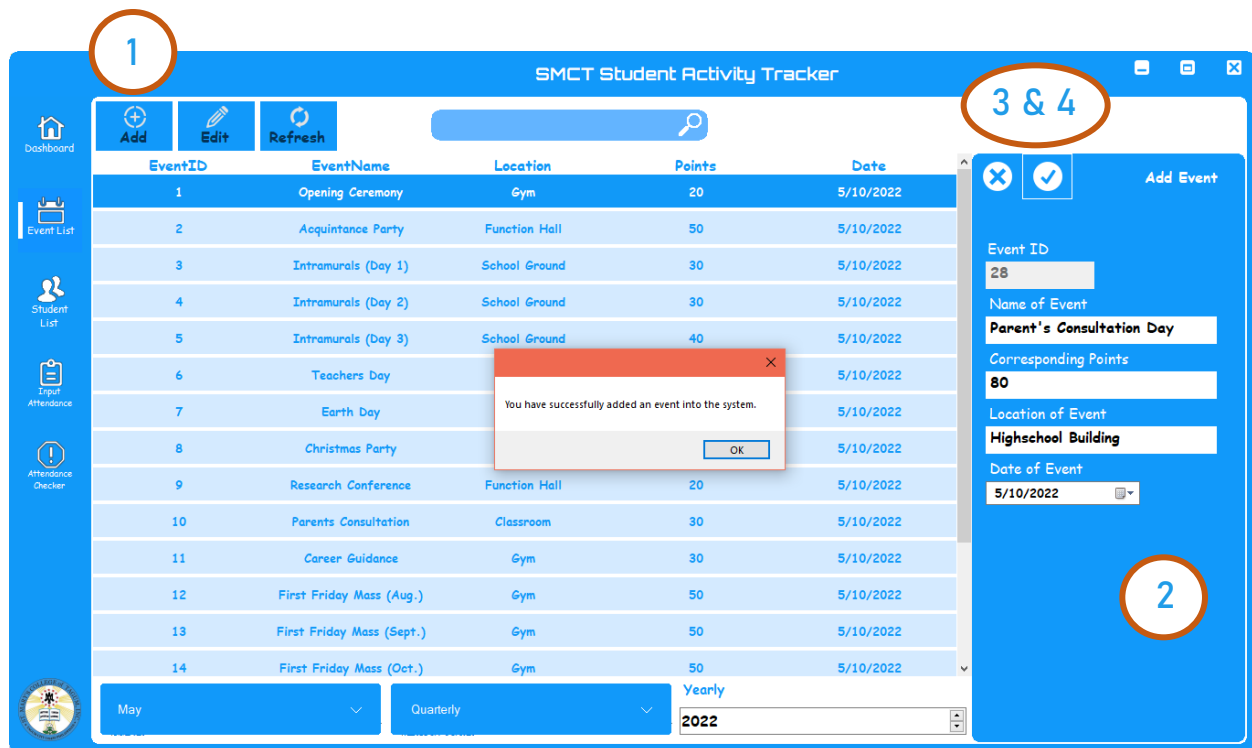


Figure 4-3.5 Event List Tab (Adding an Event)

By clicking the “Add” button on the top-left corner of the application, the administrator can add a new event to the system.

Navigation:

1. On the ‘Event List’ tab, click the “Add” button.
2. Fill the Add Event Form.
3. If you are finished, click the check button on top of the “Add Event” panel.
4. If you want to cancel, click the x button on top of the “Add Event” panel.



Figure 4-3.6 Event List Tab (Editing an Event)

By clicking the “Edit” button on the top-left corner of the application, the administrator can update an event in the system.

#### Navigation:

1. On the ‘Event List’ tab, find the event using the date filter on the bottom of the application, or by searching the name or ID of the event using the search bar on the top of the application.
2. Click the “Edit” button on the top-left corner of the application.
3. Click the cell of the event that you want to edit.
4. Correct all of the details.
5. If you are finished, click the check button on top of the “Add Event” panel
6. If you want to cancel, click the x button on top of the “Add Event” panel

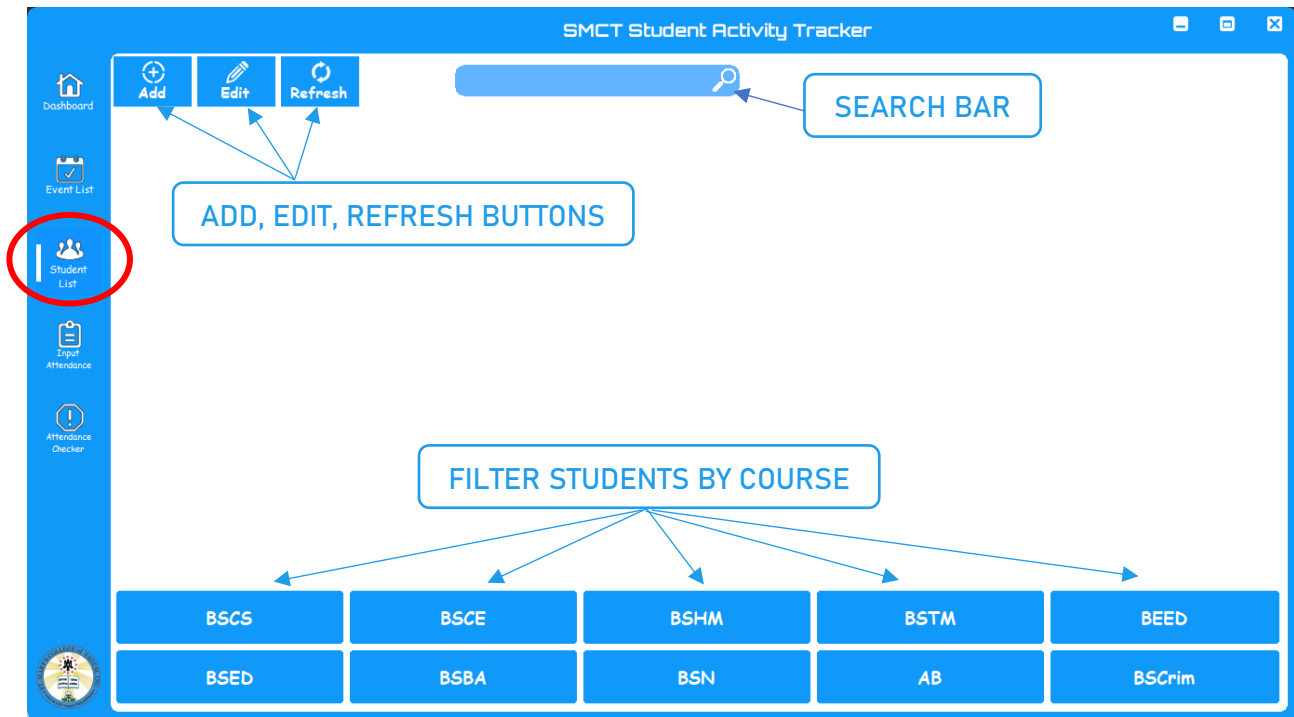


Figure 4-4.1 Student List Tab

This tab allows the administrators to view the list of students stored in the database by clicking one of the ten courses positioned on the bottom of the application.

Navigation:

1. Click the 'Student List' tab on the left side of the screen

Dashboard

Event List

Student List

Input Attendance

Attendance Checker

SMCT Student Activity Tracker

ID	Forename	Surname	Email	Mobile	Sex	Course	YearLevel	TotalPoints
1	Vanessa Nellyn	Isidro	nellyn.isidro@gma...	912345669	F	BSCS	3	300
2	Nelson	Isidro	Isidronelson454@...	2147483647	M	BSCS	2	300
3	Jhoanne	Marie	Jo_marie@gmail....	2147483647	F	BSCS	1	220
4	Jonathan	Gomez	JJGomez24@yaho...	2147483647	M	BSCS	1	220
5	Jasmine	Lopez	Jasmine34@yaho...	2147483647	F	BSCS	4	270
6	John	Marcos	JM_Bongbong@g...	2147483647	M	BSCS	1	270
7	Ralf	Gotcheres	RGX_bundle@gma...	2147483647	M	BSCS	2	270
8	Manny	Gomez	MGPacman@gmail...	94531231	M	BSCS	3	300
9	Megan	Pajero	Megan.fox@gmail...	2147483647	F	BSCS	4	200
10	Kathy	Mendoza	Hungergameslover...	2147483647	F	BSCS	2	270

BSCS

BSCE

BSHM

BSTM

BEED

BSed

BSBA

BSN

AB

BSCrim



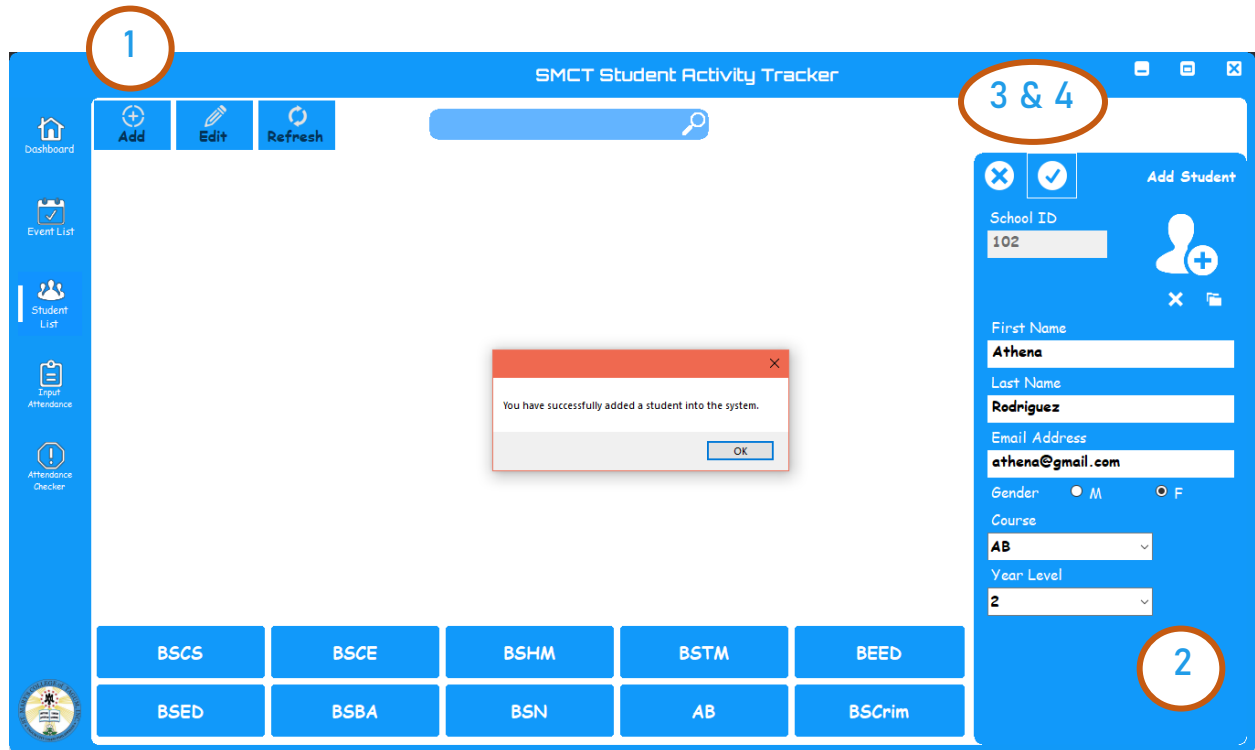


Figure 4-4.4 Student List Tab (Adding a student)

By clicking the “Add” button on the top-left corner of the application, the administrator can add a new student to the system.

#### Navigation:

1. On the ‘Student List’ tab, click the “Add” button.
2. Fill up all of the necessary details.
3. If you are finished, click the check button on top of the “Add Student” panel
4. If you want to cancel, click the x button on top of the “Add Student” panel

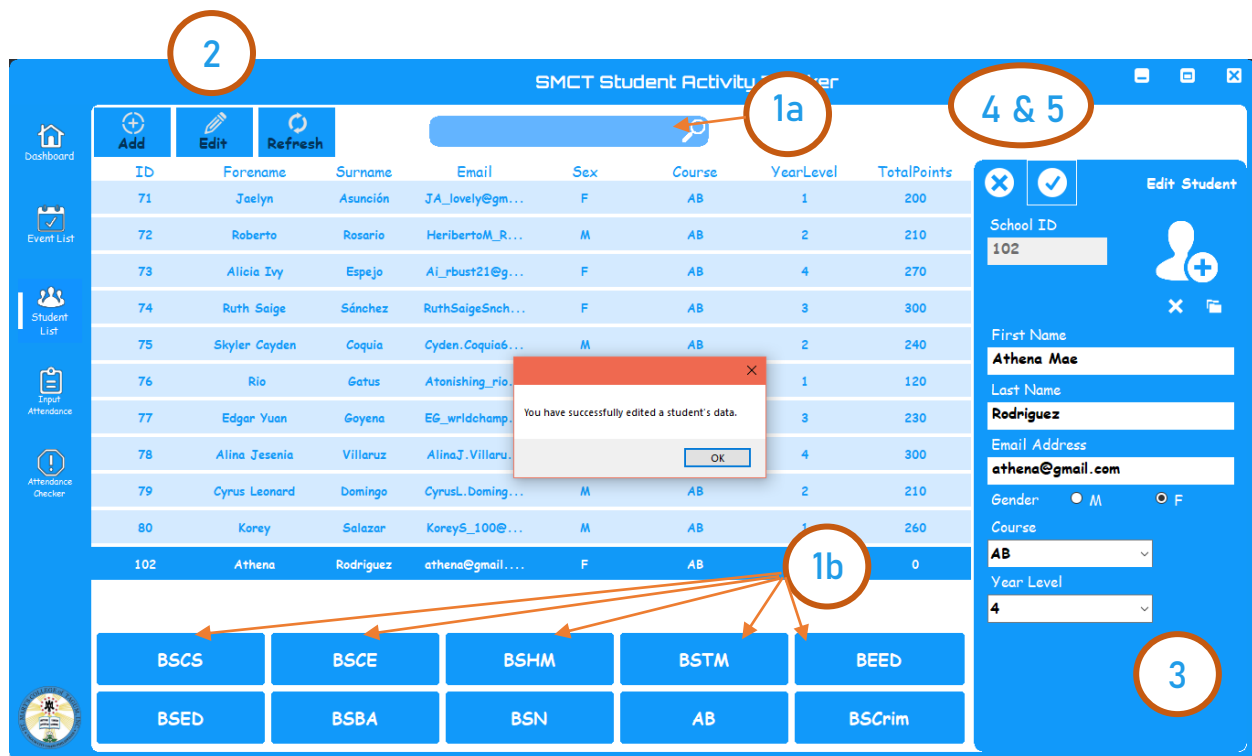


Figure 4-4.5 Student List Tab (Editing a Student's Data)

By clicking the “Edit” button on the top-left corner of the application, the administrator can update or correct a student’s data in the system.

#### Navigation:

1. On the ‘Student List’ tab, find the event using the course filter on the bottom of the application, or by searching the name or ID of the student using the search bar on the top of the application.
2. Click the “Edit” button on the top-left corner of the application.
3. Click the cell of the student’s data that you want to edit.
4. Correct all of the details.
5. If you are finished, click the check button on top of the “Edit Student” panel
6. If you want to cancel, click the x button on top of the “Edit Student” panel

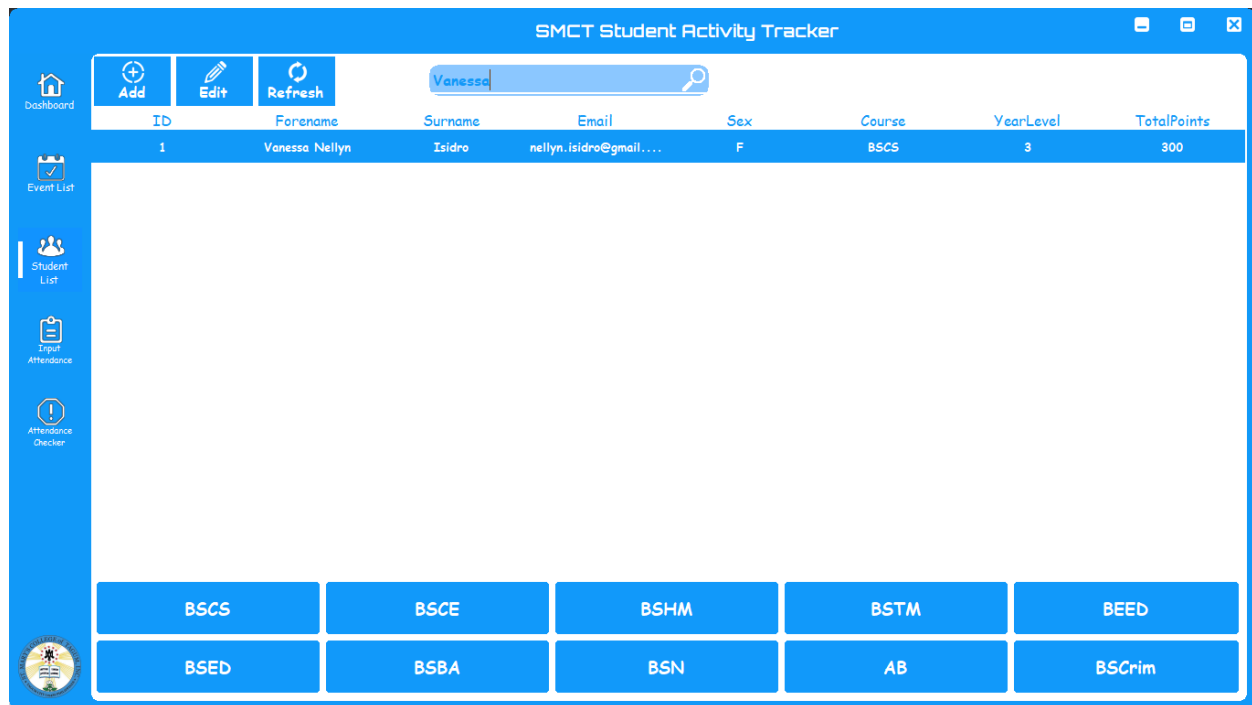


Figure 4-4.6 Student List Tab  
(Searching for a student using the search bar)

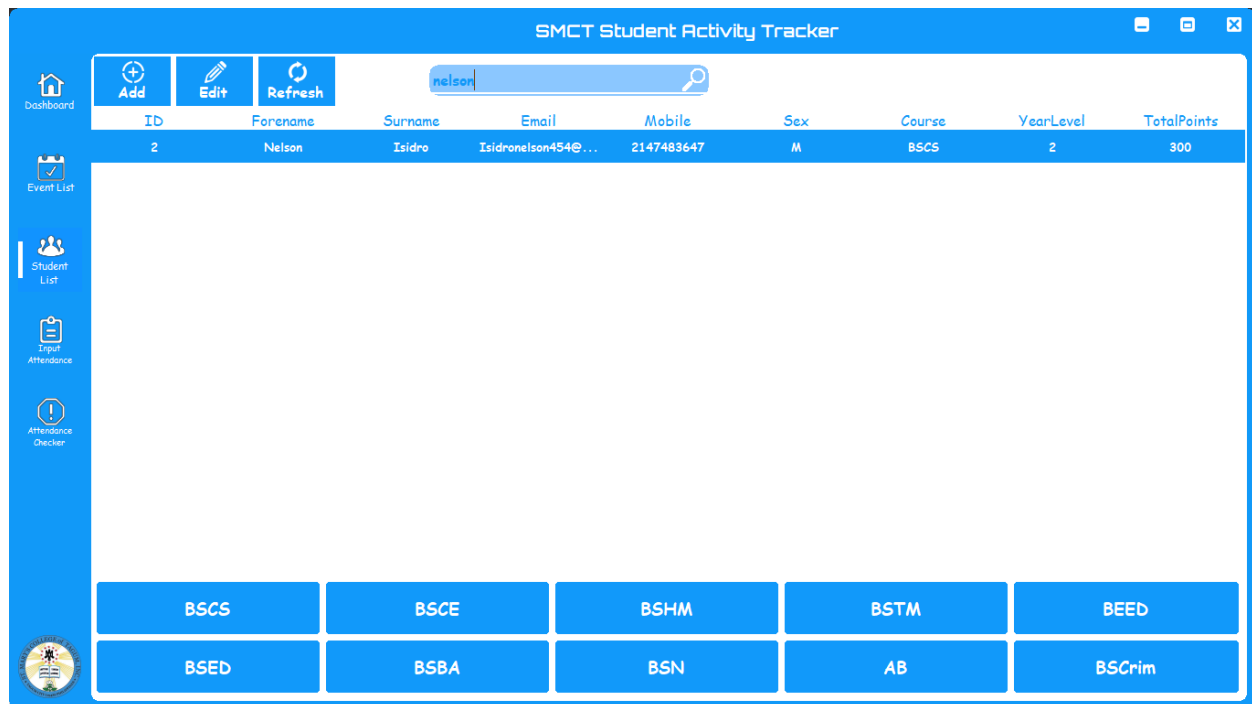


Figure 4-4.7 Student List Tab  
(Searching for a student using the search bar)

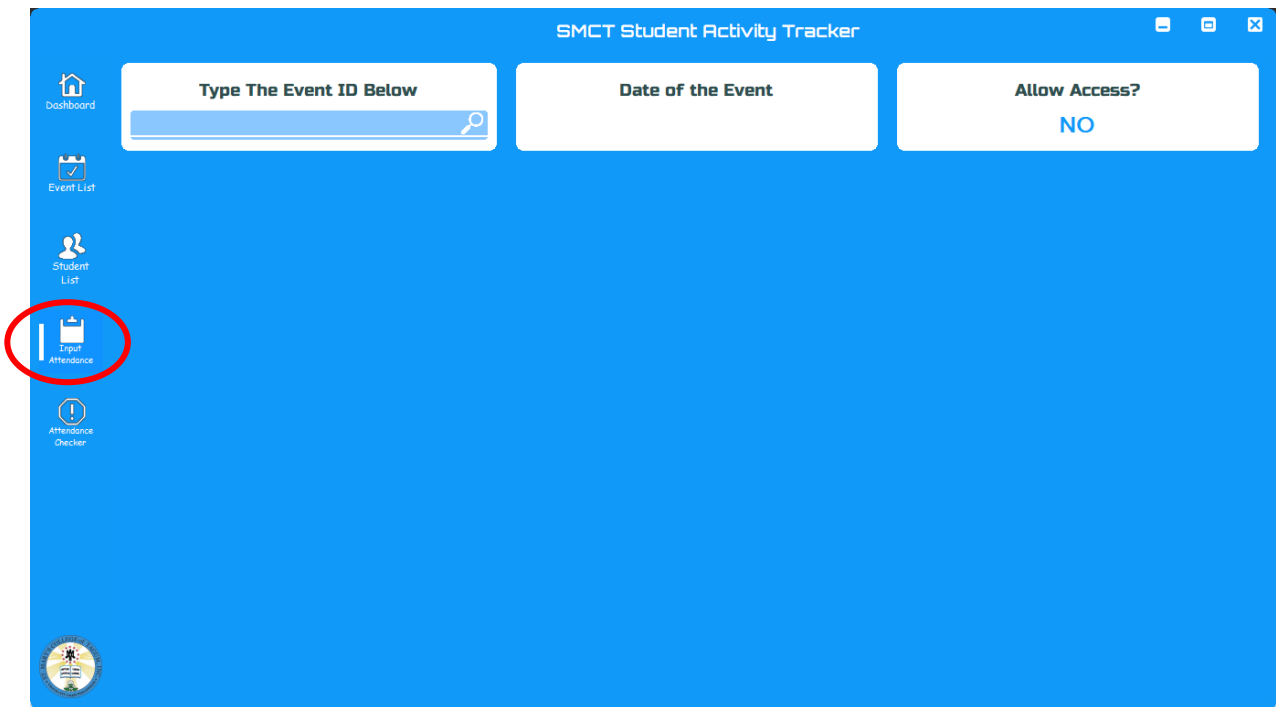


Figure 4-5.1 Input Attendance Tab

This tab allows the administrators to encode the attendance of a student at an event. This is the main feature of the program.

Navigation:

1. Click the 'Input Attendance' tab on the left side of the screen
2. Enter an Event ID (the date must be equal to current date)
3. Enter the Student ID (If successful, the student is encoded to the system)

SMCT Student Activity Tracker

Dashboard

Event List

Student List

Input Attendance

Attendance Checker

Type The Event ID Below

1

Date of the Event

5/10/2022

Allow Access?

Yes

Enter Student ID >>

SUBMIT

STEP 1

Figure 4-5.2 Input Attendance Tab (Access Allowed)  
[The date of the event matches the current date]

SMCT Student Activity Tracker

Dashboard

Event List

Student List

Input Attendance

Attendance Checker

Type The Event ID Below

1

Date of the Event

5/10/2022

Allow Access?

Yes

Enter Student ID >>

1

SUBMIT

STUDENTS PRESENT AT THE EVENT

ID	Forename	Surname	Course	YearLevel
1	Vanessa Nellyn	Isidro	BSCS	3

STEP 2

Figure 4-5.3 Input Attendance Tab (Student Encoded to the System)

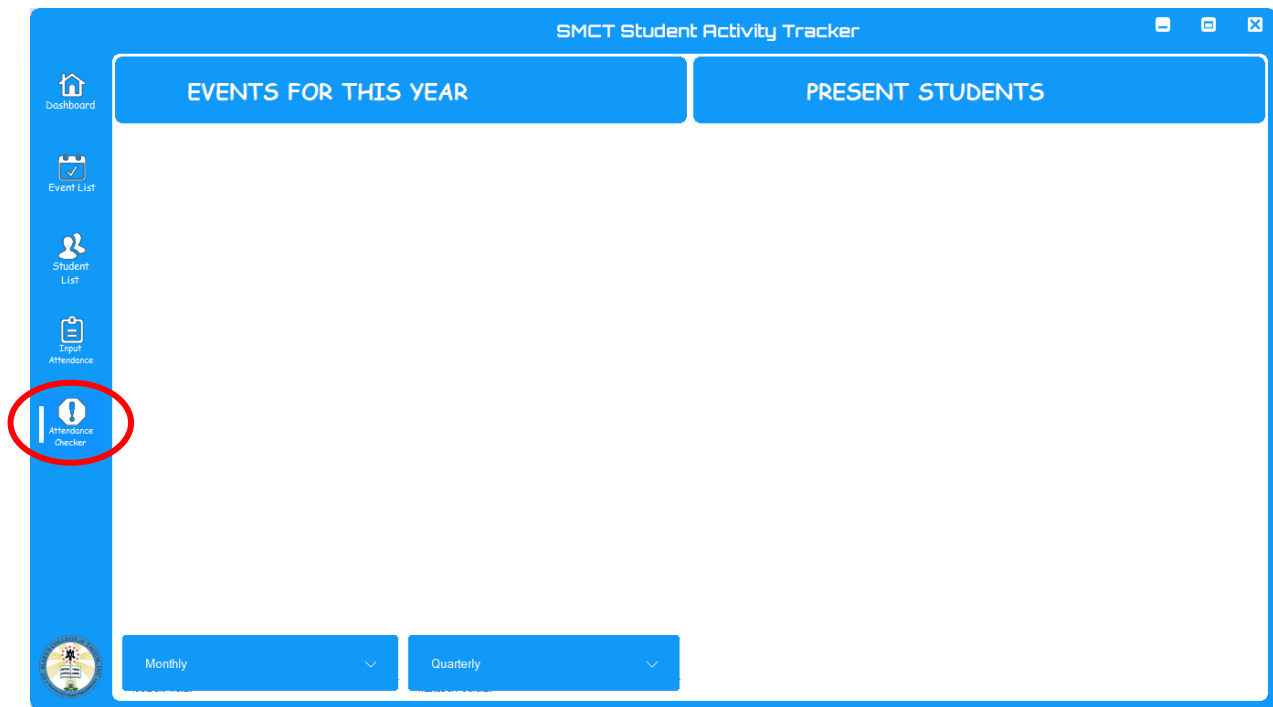


Figure 4-6.1 Attendance Checker

This tab allows the administrators to view the attendance of multiple students at an event.

Navigation:

1. Click the 'Attendance Checker' tab on the left side of the screen
2. Choose a date from the given options in the bottom of the appli
3. Enter the Student ID (If successful, the student is encoded to the system)

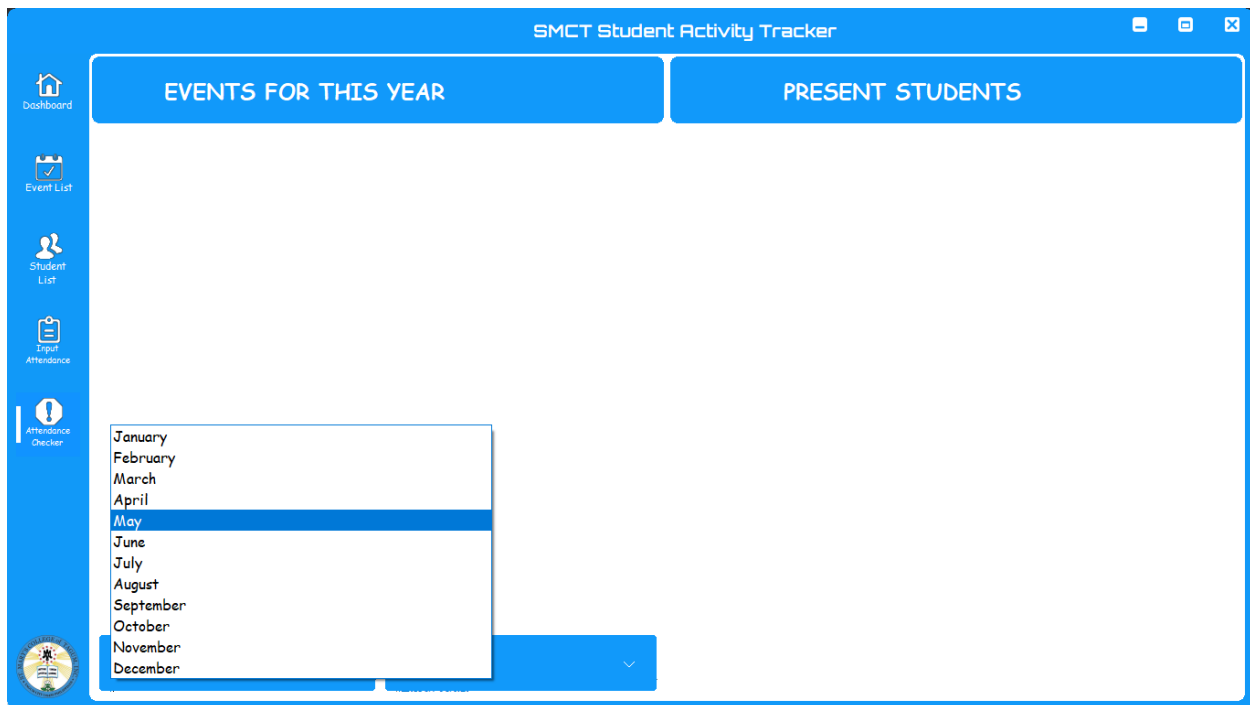


Figure 4-6.2 Attendance Checker (Choose Date)

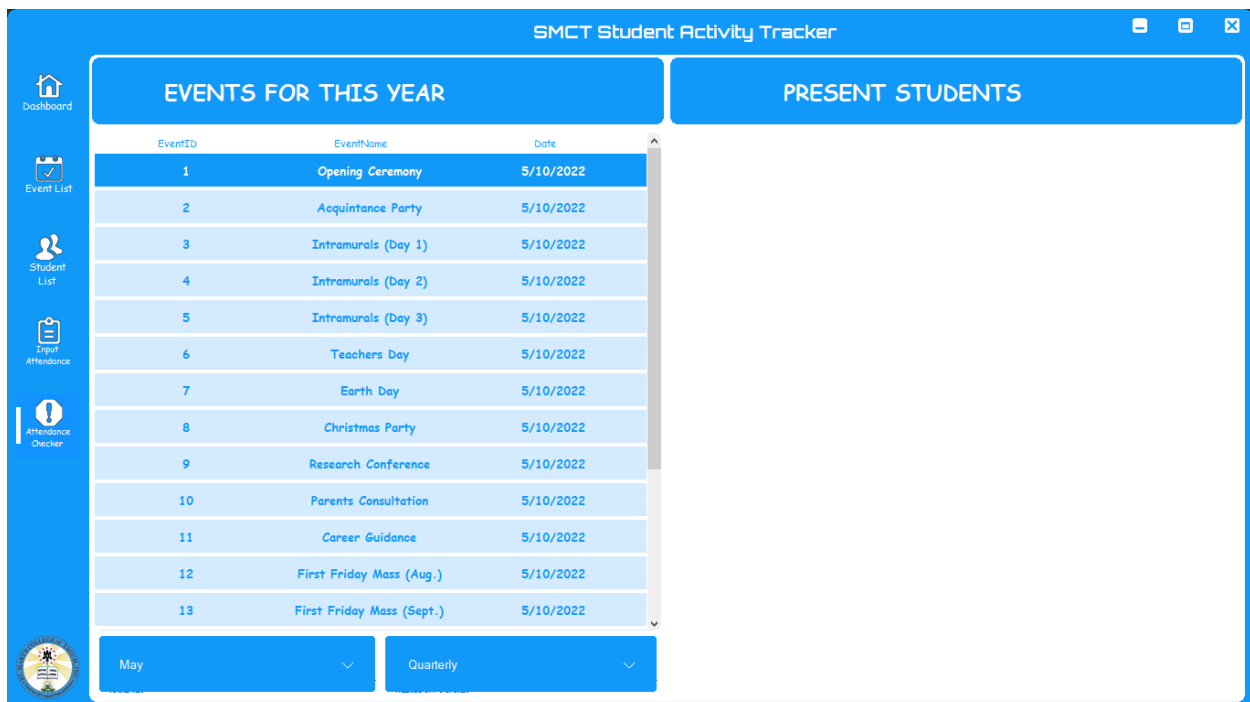


Figure 4-6.3 Attendance Checker (Month of May)

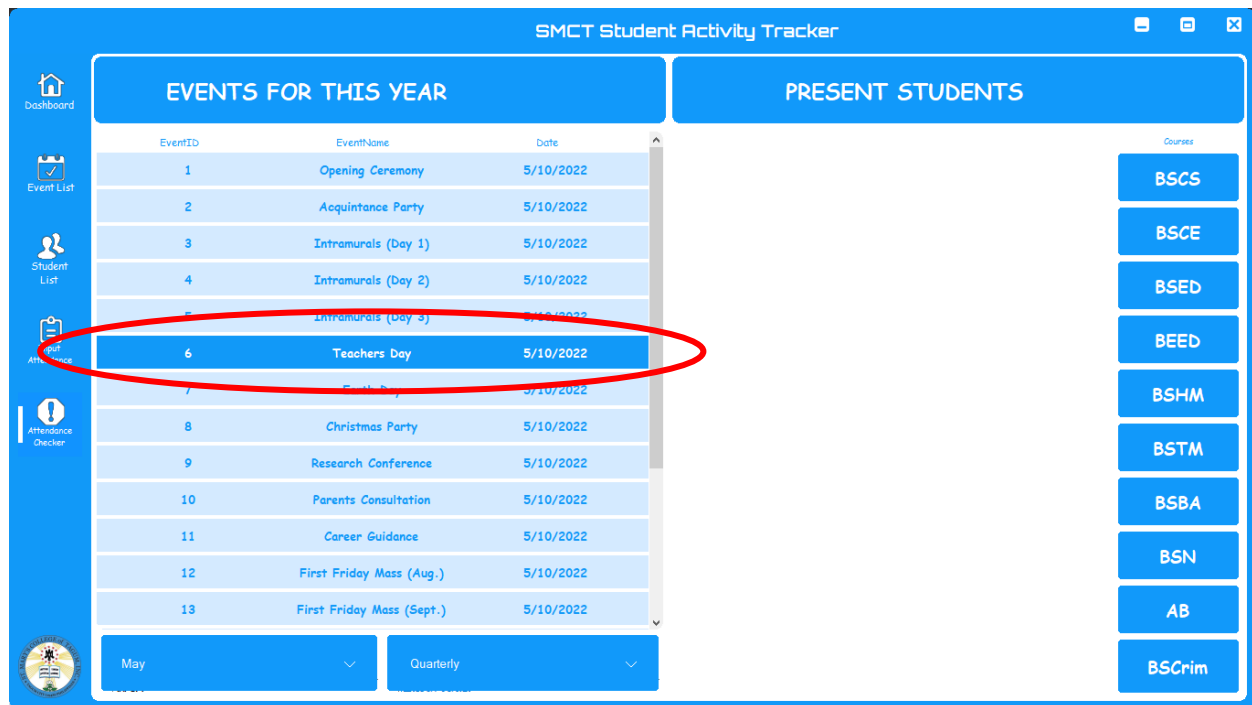


Figure 4-6.4 Attendance Checker (Clicked the cell of an event)

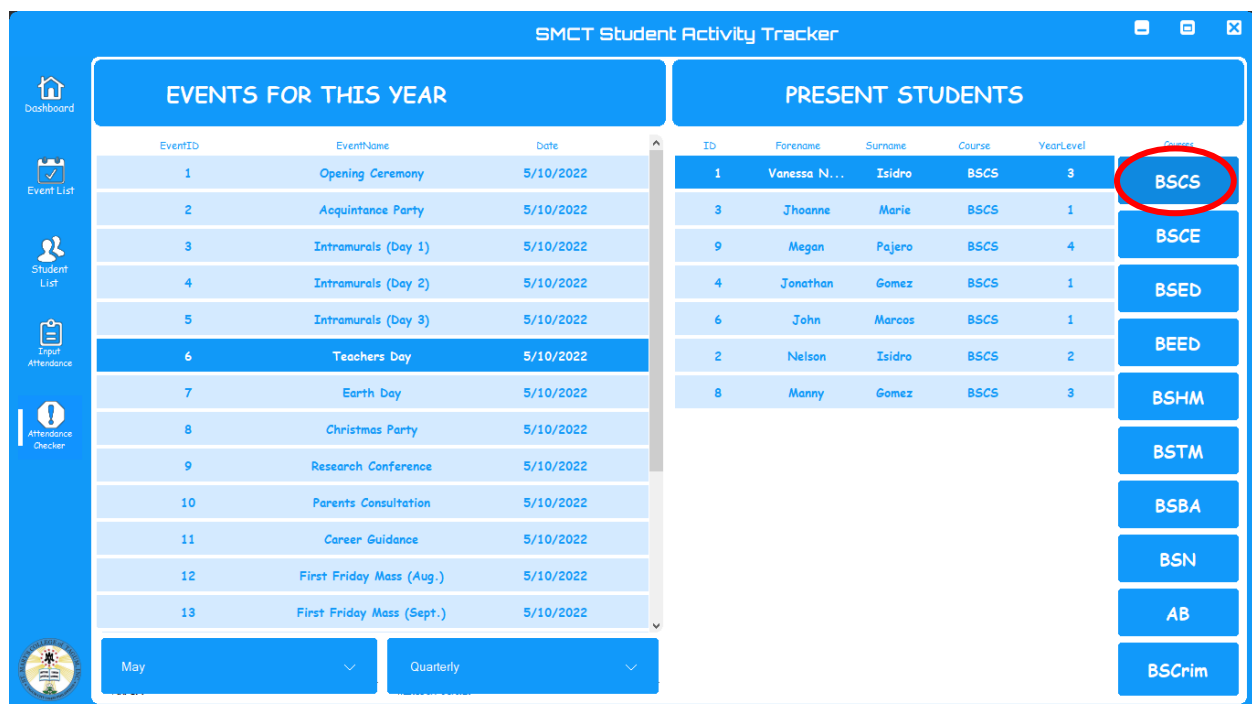


Figure 4-6.5 Attendance Checker (Clicked a course: BSCS)



Dashboard

Event List

Student List

Input Attendance

Attendance Checker

EVENTS FOR THIS YEAR

EventID	EventName	Date
1	Opening Ceremony	5/10/2022
2	Acquintance Party	5/10/2022
3	Intramurals (Day 1)	5/10/2022
4	Intramurals (Day 2)	5/10/2022
5	Intramurals (Day 3)	5/10/2022
6	Teachers Day	5/10/2022
7	Earth Day	5/10/2022
8	Christmas Party	5/10/2022
9	Research Conference	5/10/2022
10	Parents Consultation	5/10/2022
11	Career Guidance	5/10/2022
12	First Friday Mass (Aug.)	5/10/2022
13	First Friday Mass (Sept.)	5/10/2022

May

Quarterly

PRESENT STUDENTS

ID	Forename	Surname	Course	YearLevel	Courses
44	Gian Montego	Vizcaya	BSHM	4	BSCS
42	Brandon T...	Ramientos	BSHM	2	BSCE
49	Aubree Callie	Lacson	BSHM	1	BSCE
41	Dana Leng	Castillo	BSHM	1	BSCE
43	Fernando ...	Evangelista	BSHM	3	BEED
47	Marie	Corpuz	BSHM	3	BSHM
45	Cheyenne ...	Quisumbing	BSHM	1	BSHM
46	Kaylin	Quezada	BSHM	2	BSTM
48	Susana	Arcilla	BSHM	4	BSTM
					BSBA
					BSN
					AB
					BSCrim

Figure 4-6.6 Attendance Checker (Clicked a course: BSHM)

Dashboard

Event List

Student List

Input Attendance

Attendance Checker

EVENTS FOR THIS YEAR

EventID	EventName	Date
1	Opening Ceremony	5/10/2022
2	Acquintance Party	5/10/2022
3	Intramurals (Day 1)	5/10/2022
4	Intramurals (Day 2)	5/10/2022
5	Intramurals (Day 3)	5/10/2022
6	Teachers Day	5/10/2022
7	Earth Day	5/10/2022
8	Christmas Party	5/10/2022
9	Research Conference	5/10/2022
10	Parents Consultation	5/10/2022
11	Career Guidance	5/10/2022
12	First Friday Mass (Aug.)	5/10/2022
13	First Friday Mass (Sept.)	5/10/2022

May

Quarterly

PRESENT STUDENTS

ID	Forename	Surname	Course	YearLevel	Courses
58	Keanu Ade...	Montero	BSN	2	BSCS
55	Dean	Rubio	BSN	3	BSCE
60	Miguel Dalton	Díaz	BSN	3	BSCE
53	Lindsay De	Leon	BSN	1	BSCE
52	Elisa Sususco	Alba	BSN	1	BEED
56	Lillie Maca...	Castro	BSN	2	BSHM
51	Jalden Te...	Estillare	BSN	1	BSHM
59	Sydney	Sarte	BSN	3	BSTM
57	Xander	Santiago	BSN	4	BSTM
					BSBA
					BSN
					AB
					BSCrim

Figure 4-6.7 Attendance Checker (Clicked a course: BSN)

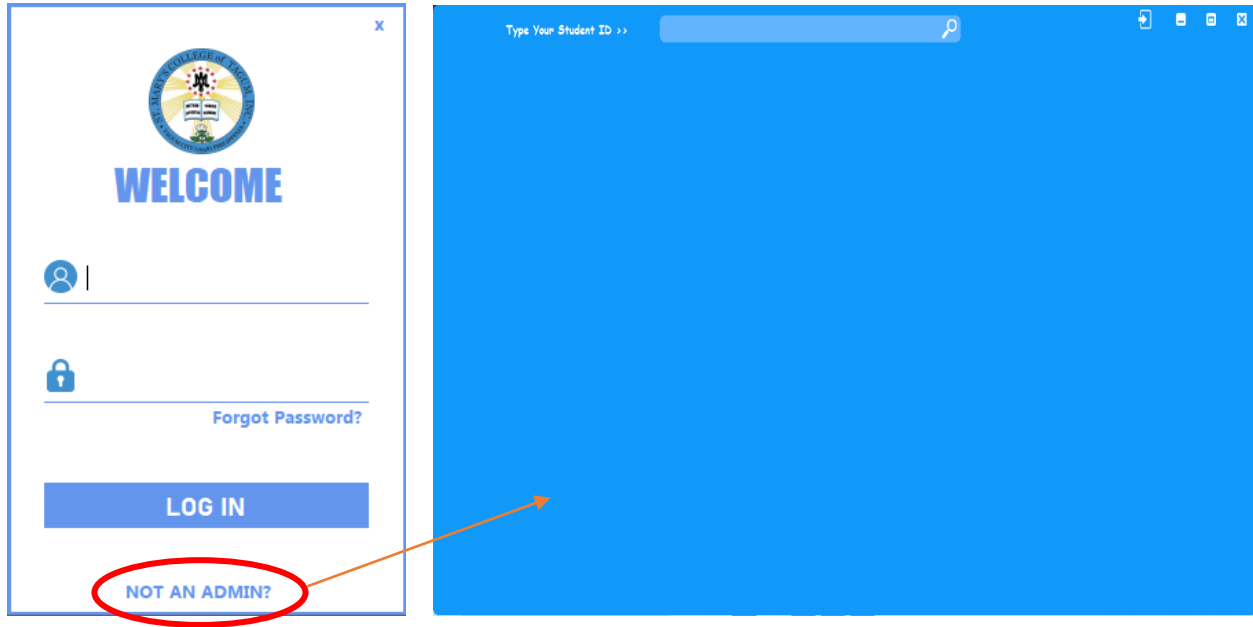


Figure 4-7.1 Student Viewer

This tab allows the student to view their upcoming events, recent events, and total points allocated.

Navigation:

1. Open the application
2. Click the “NOT AN ADMIN?” label at the bottom of the login form
3. Enter a student ID at the search bar on the top of the page

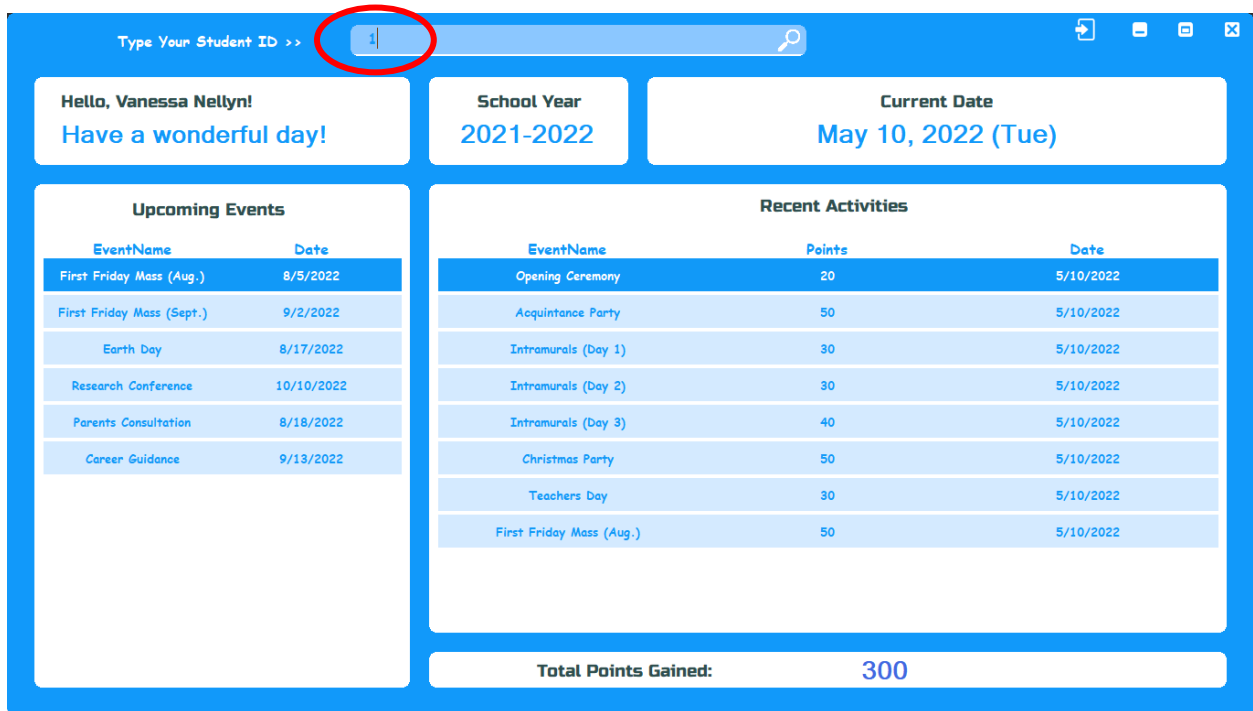


Figure 4-7.2 Student Viewer (Entered a Student ID)

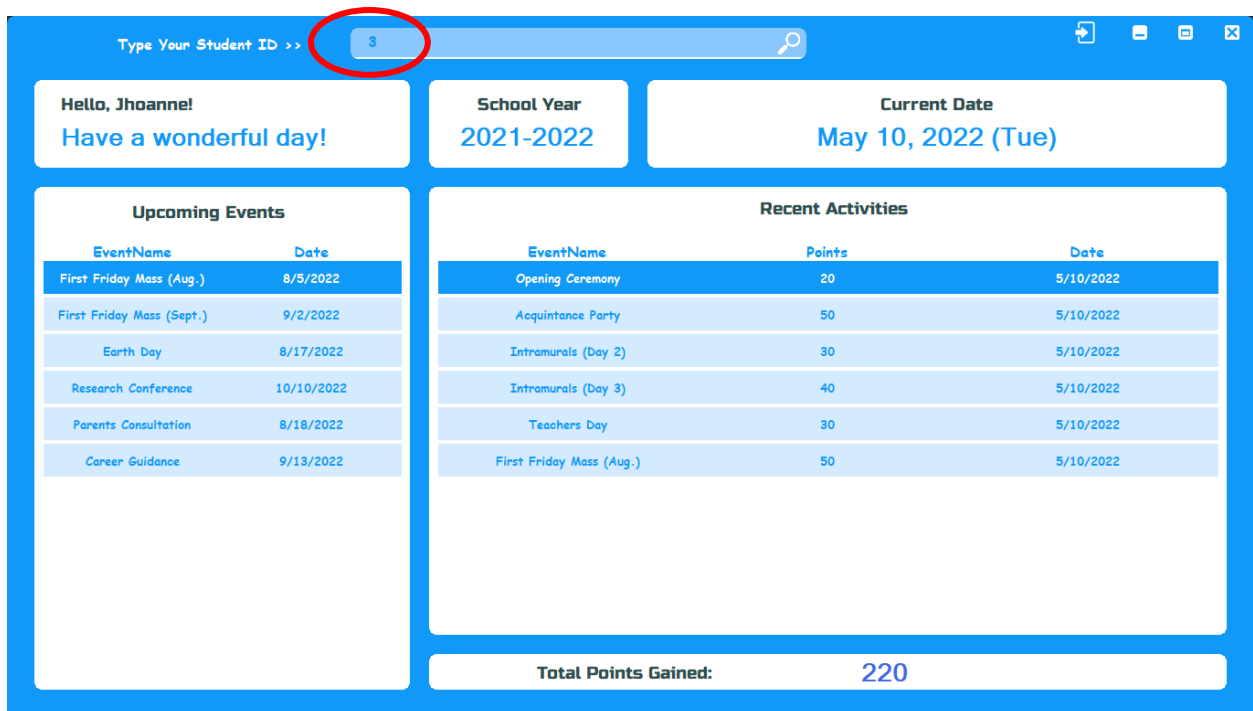


Figure 4-7.3 Student Viewer (Entered a Student ID)

## **6.4 Program Specifications**

The system is capable of adding and modifying events, adding and modifying student data, storing the records of students who were present at an event, viewing upcoming events, viewing the top students with the lowest scores, and viewing the number of students present at an event. There are several error checking features in the system that prevents the end-users from committing input errors.

### **EDIT LIST AND STUDENT LIST**

1. The inputs in all fields need to be filled in properly otherwise there will be a message indicating that the end-user has missed an input field. The system will not proceed unless all the fields are properly filled in.
2. Clicking the refresh button without choosing a date (in event list) or a course (in student list) will produce an error message.

### **EDIT LIST**

3. Adding or modifying an event with a date that's already happened will produce an error message.

### **INPUT ATTENDANCE**

4. If the admin types an event that does not exist, the error message will occur.
5. The admin should only choose a date that doesn't match the current date, otherwise there will be a message indicating that their access is denied.
6. Once the access is allowed, the student should exist in the database, otherwise there will be a message indicating that the student does not exist.

These error-checking features are shown in the following figures.

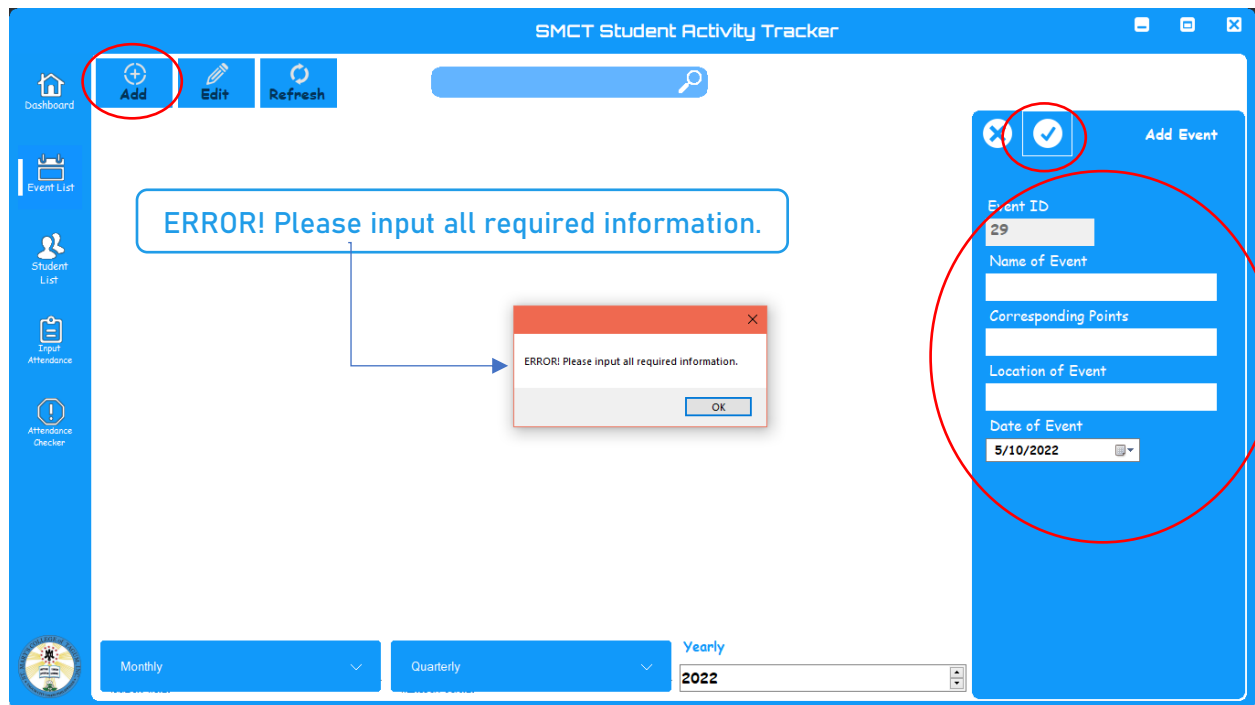


Figure 6-4.1 Error Checking for the adding/modifying of events – required all fields

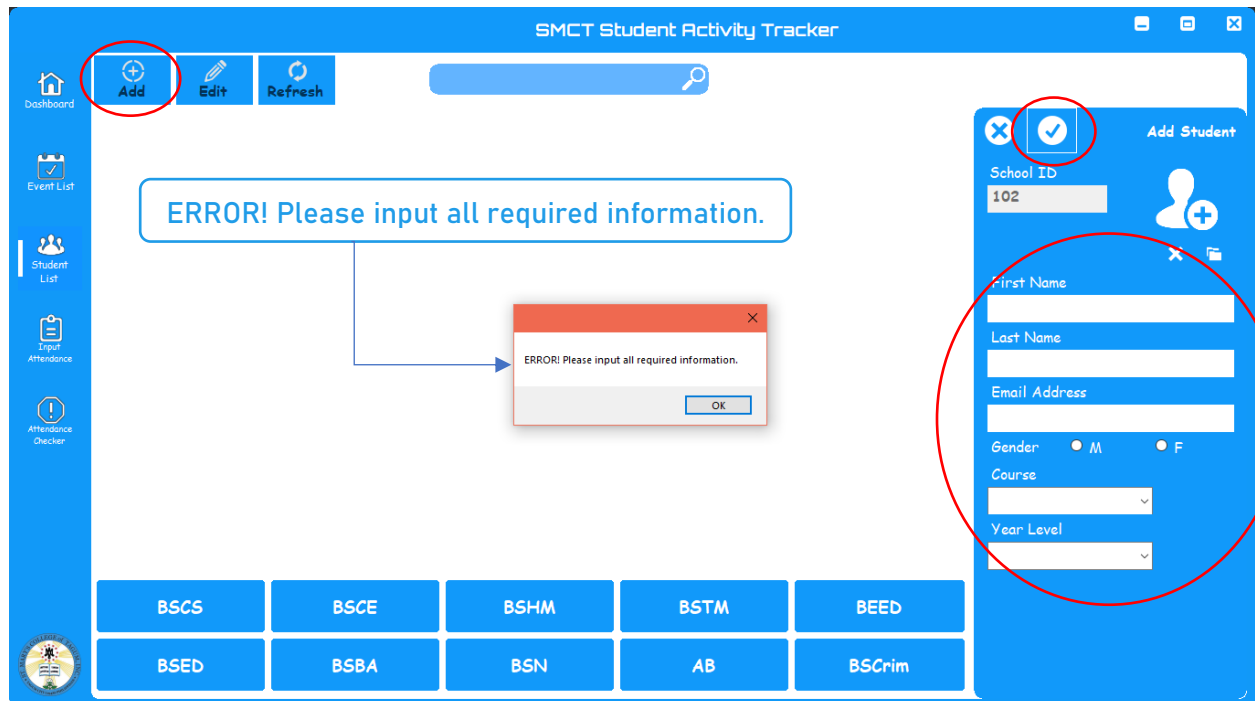


Figure 6-4.2 Error Checking for the adding/modifying of students – required all fields

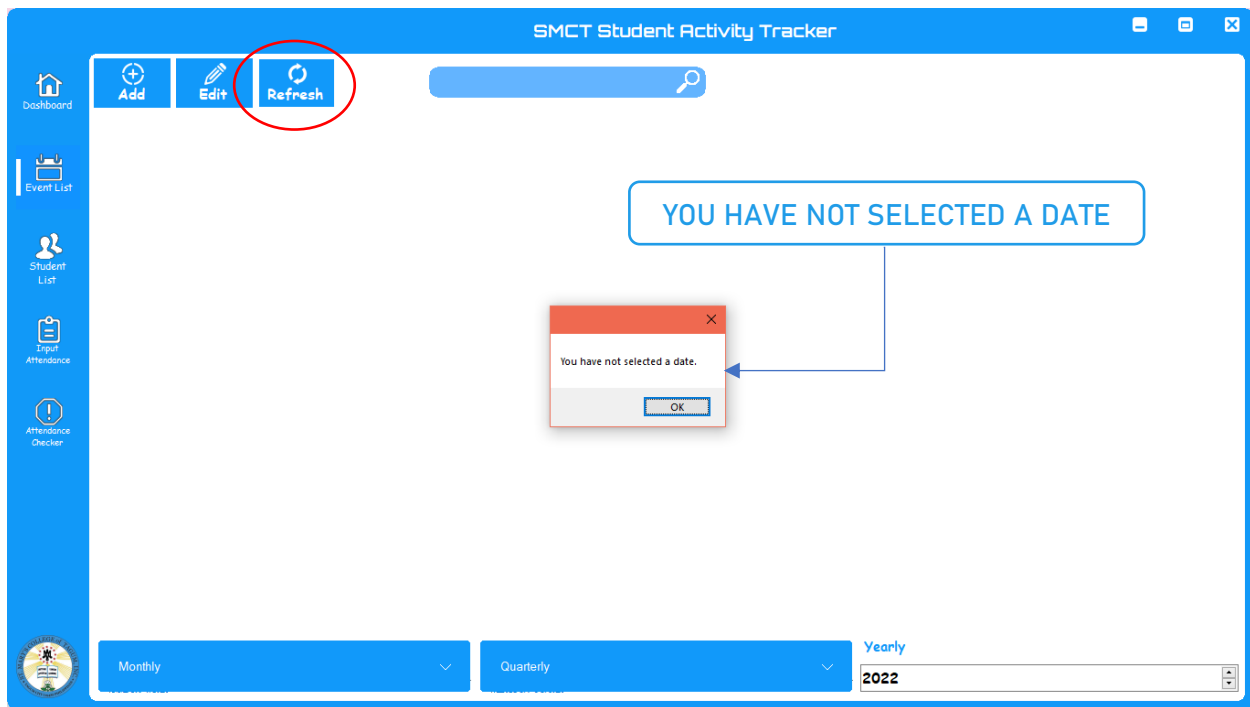


Figure 6-4.3 Error Checking for refreshing the data table in Event List – filter restriction

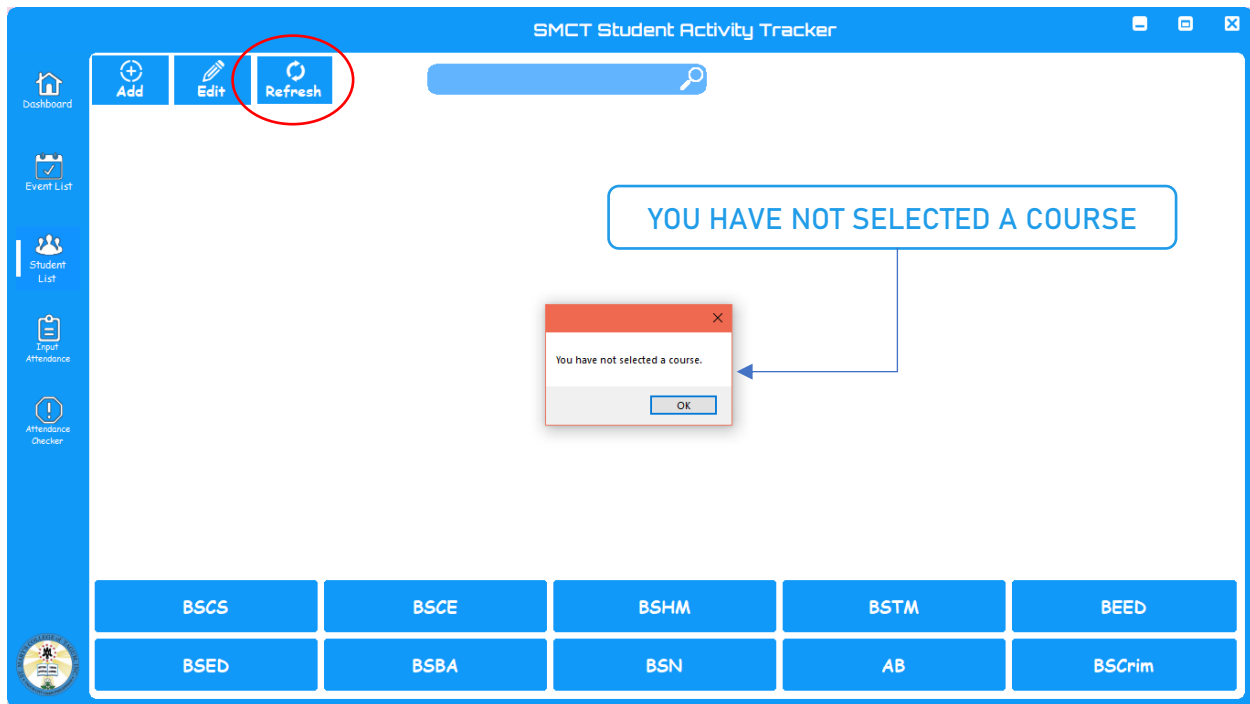


Figure 6-4.4 Error Checking for refreshing the data table in Event List – filter restriction

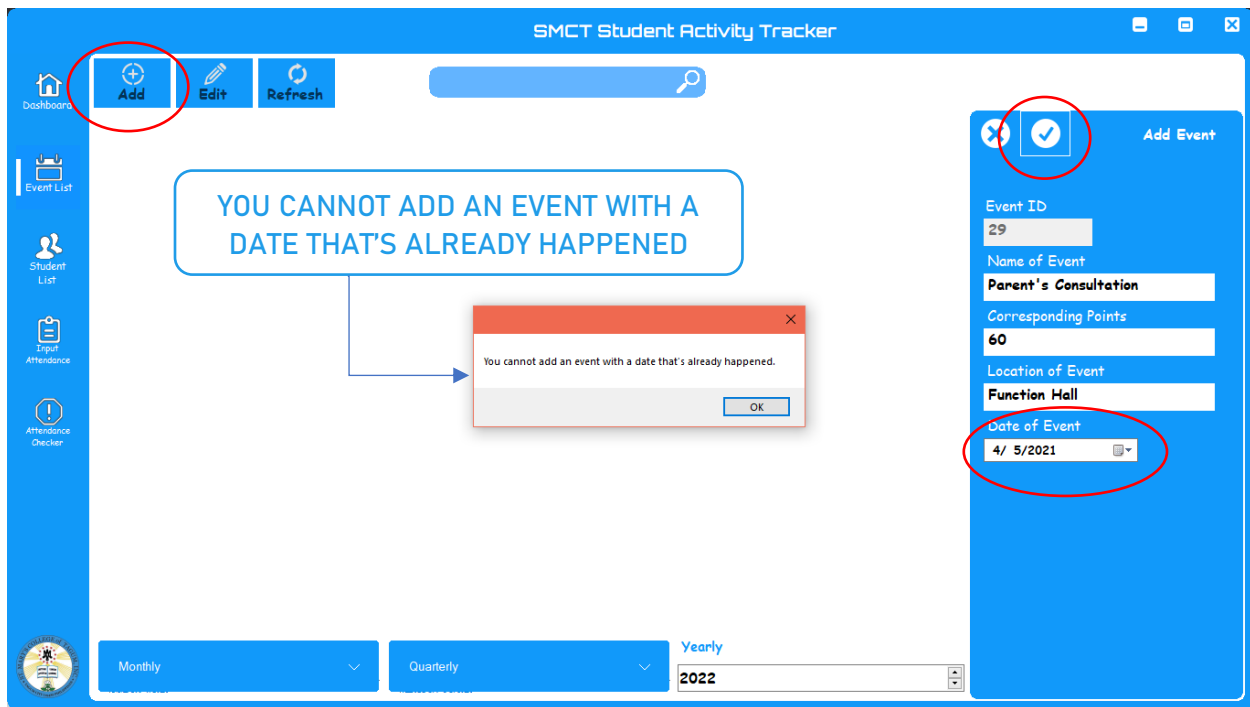


Figure 6-4.5 Error Checking for the adding/modifying of events – date restriction

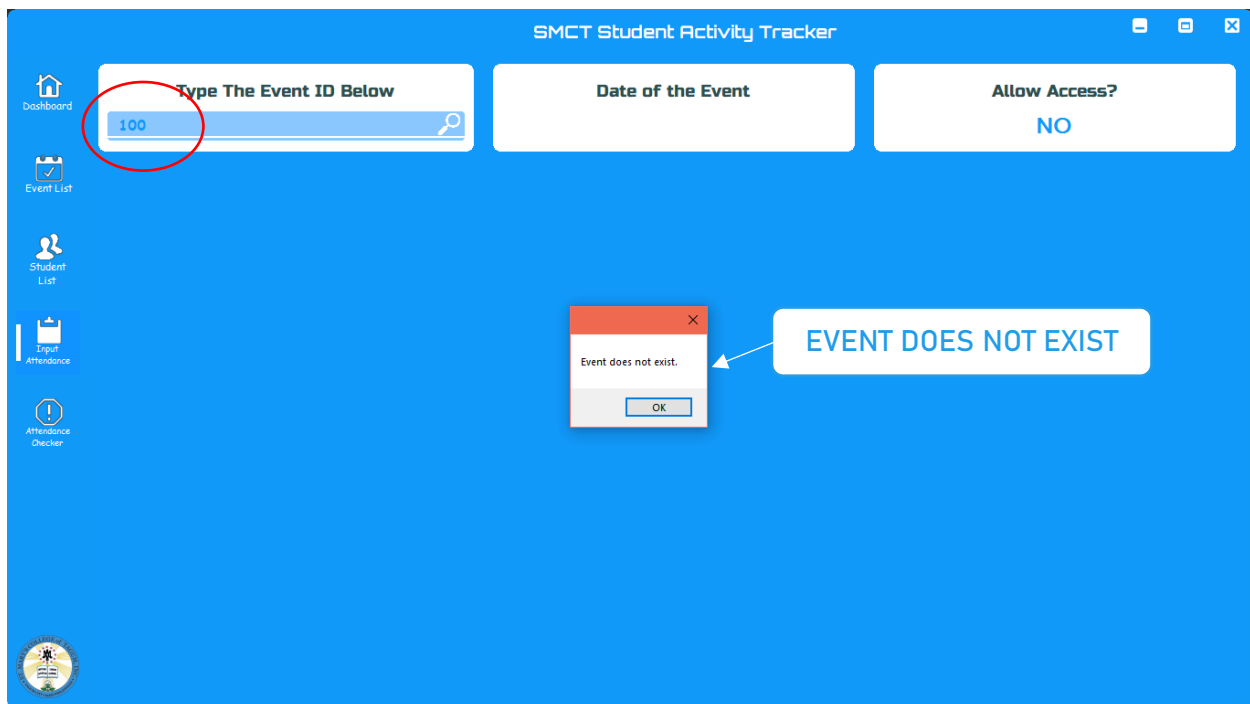


Figure 6-4.6 Error Checking for the encoding of attendance – event not found

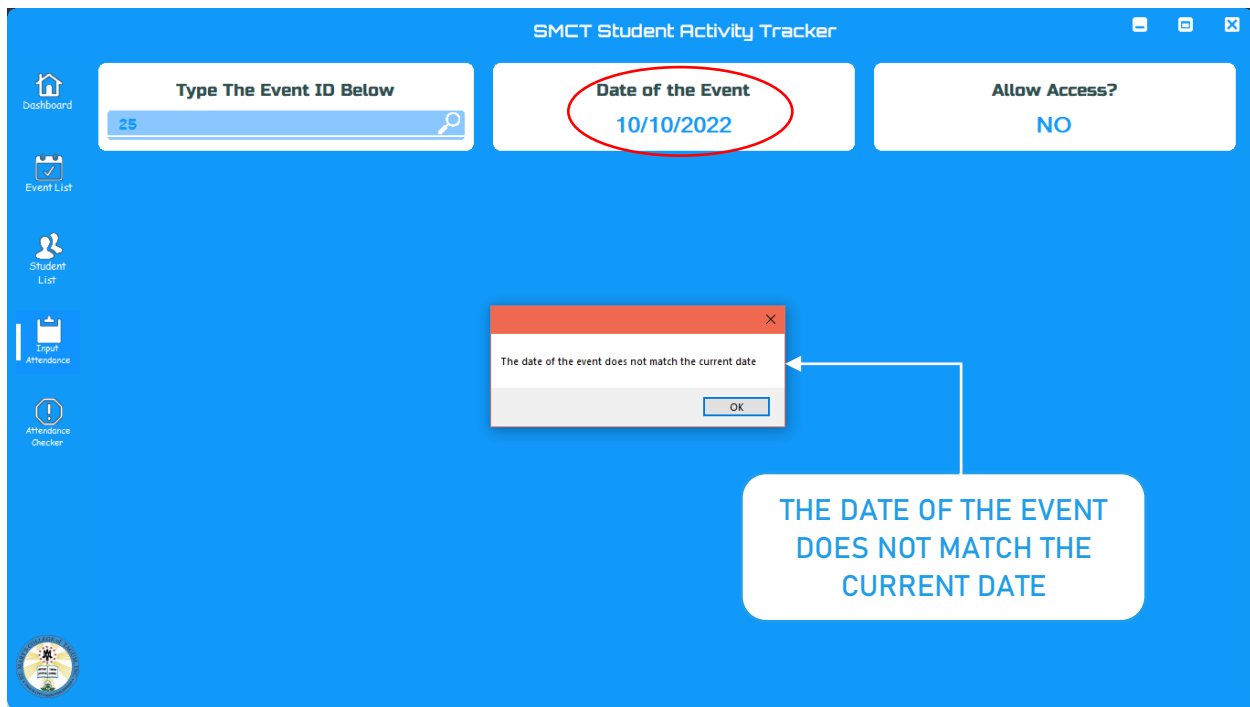


Figure 6-4.7 Error Checking for the encoding of attendance – date restriction

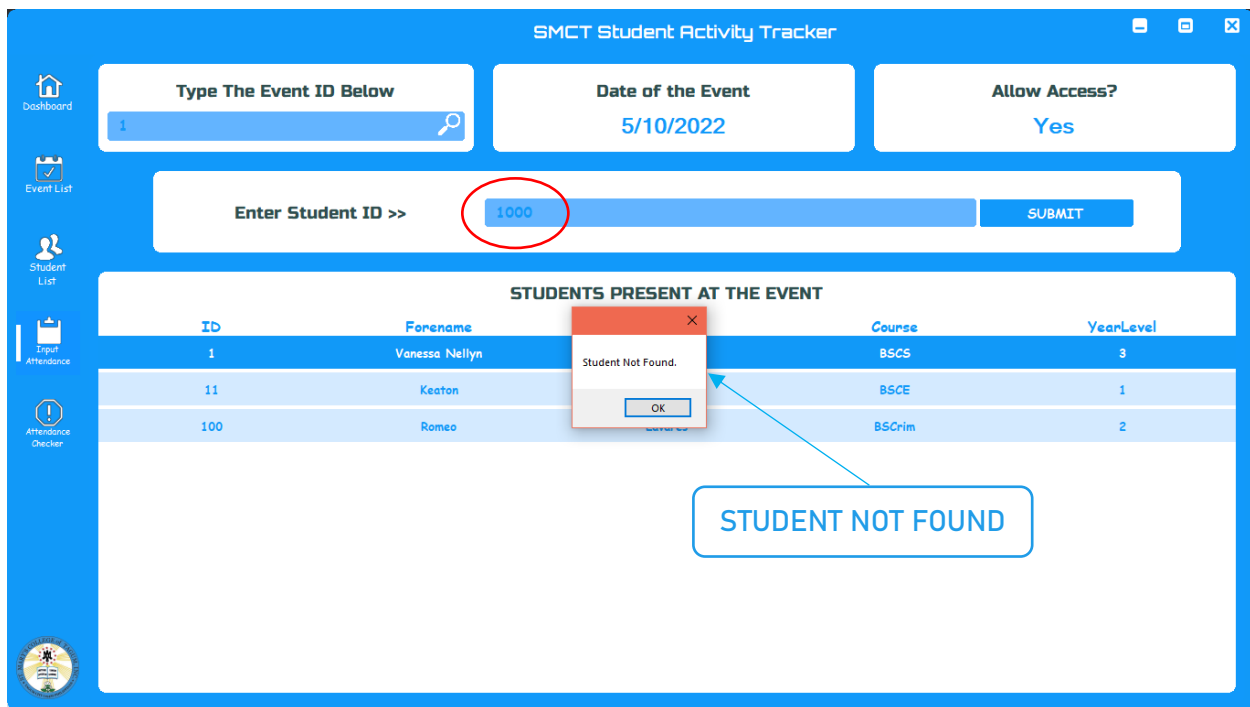


Figure 6-4.7 Error Checking for the encoding of attendance – student not found