## 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



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:
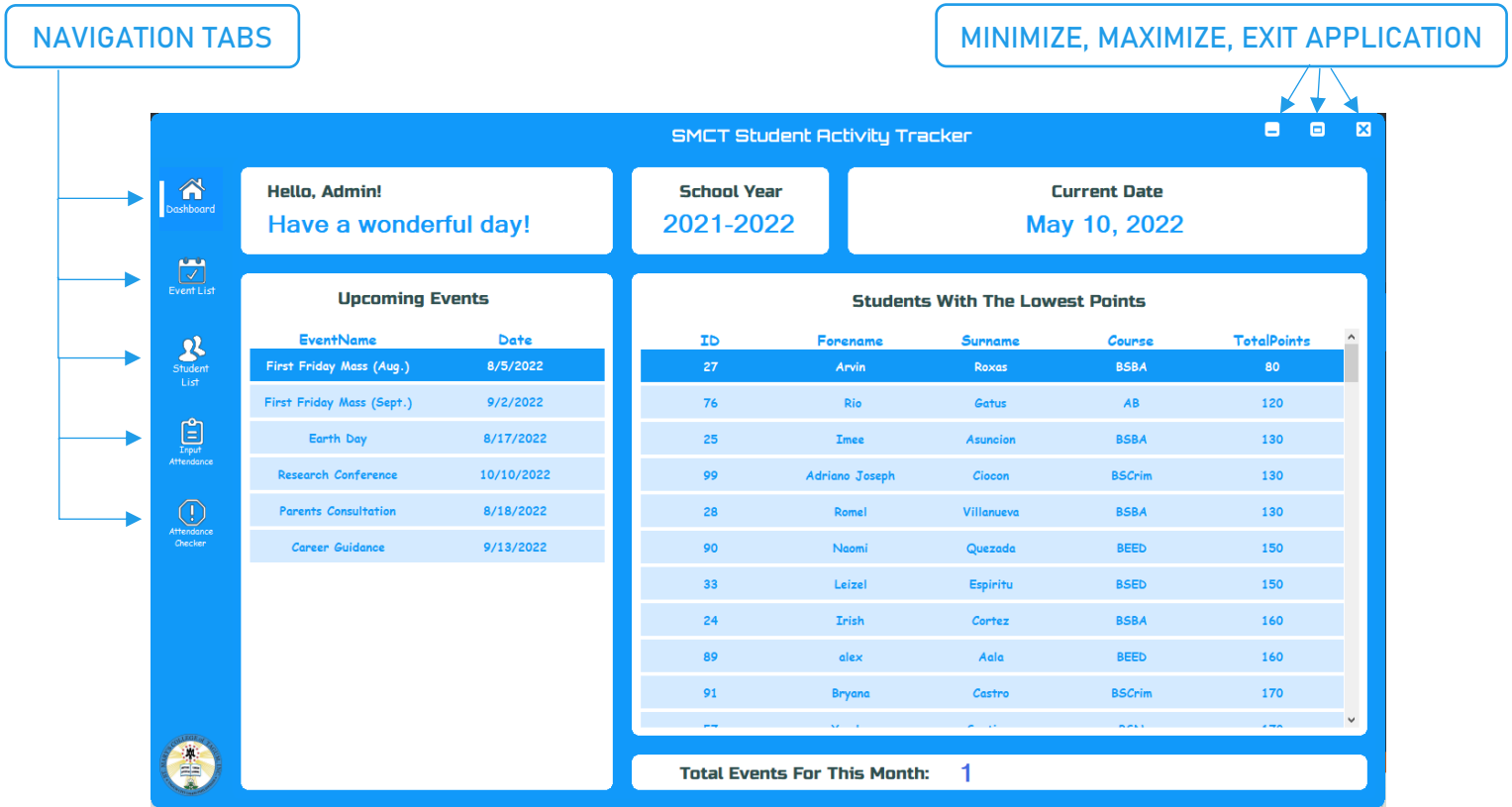1. Open the student activity tracker application

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
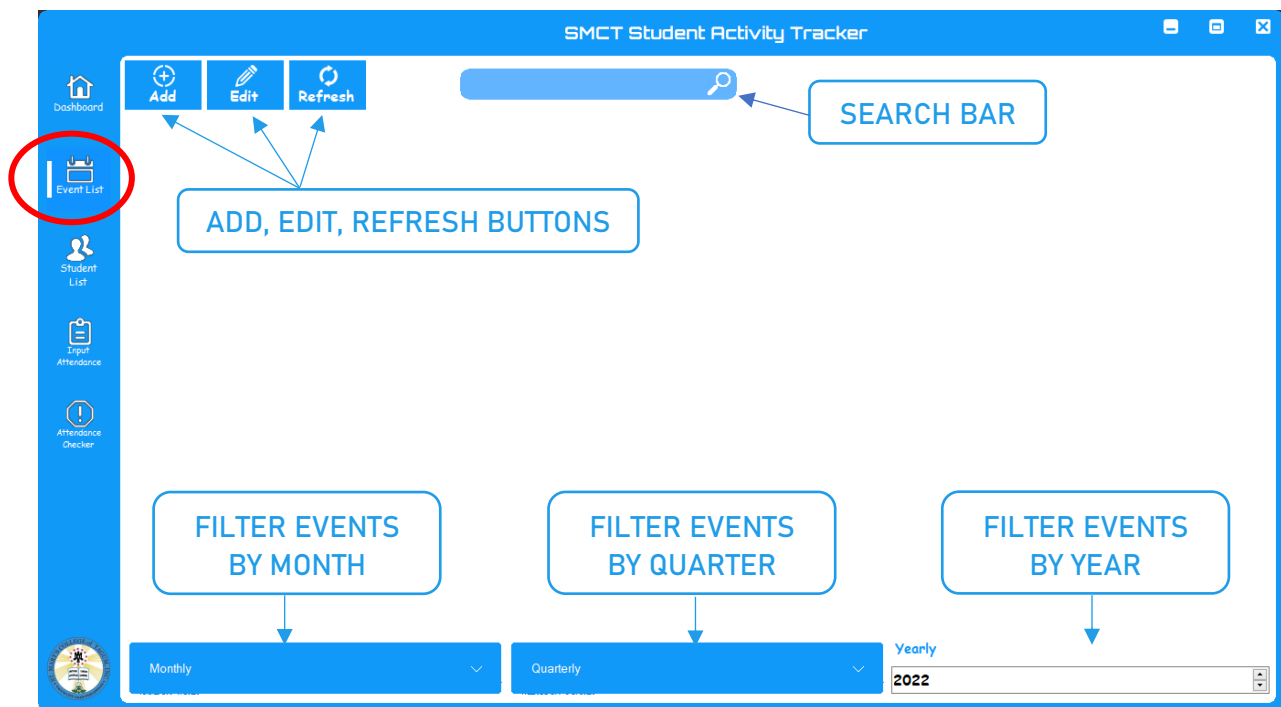2. Click the 'Login' button

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.
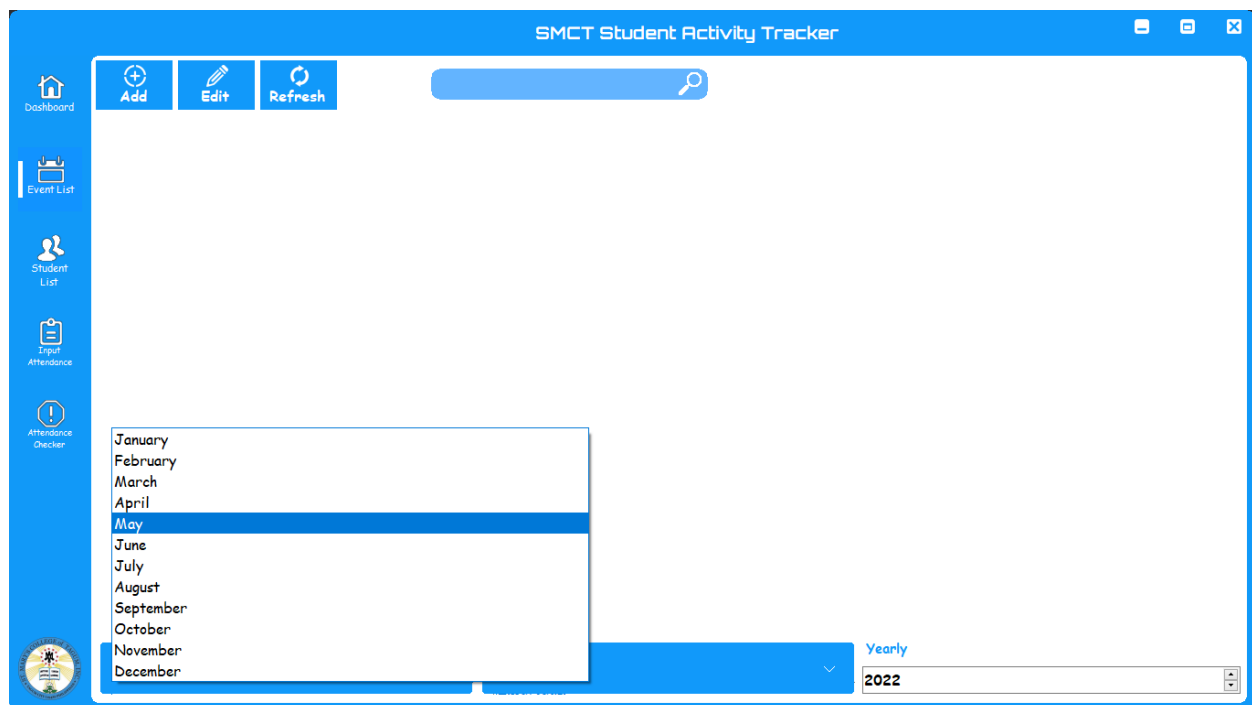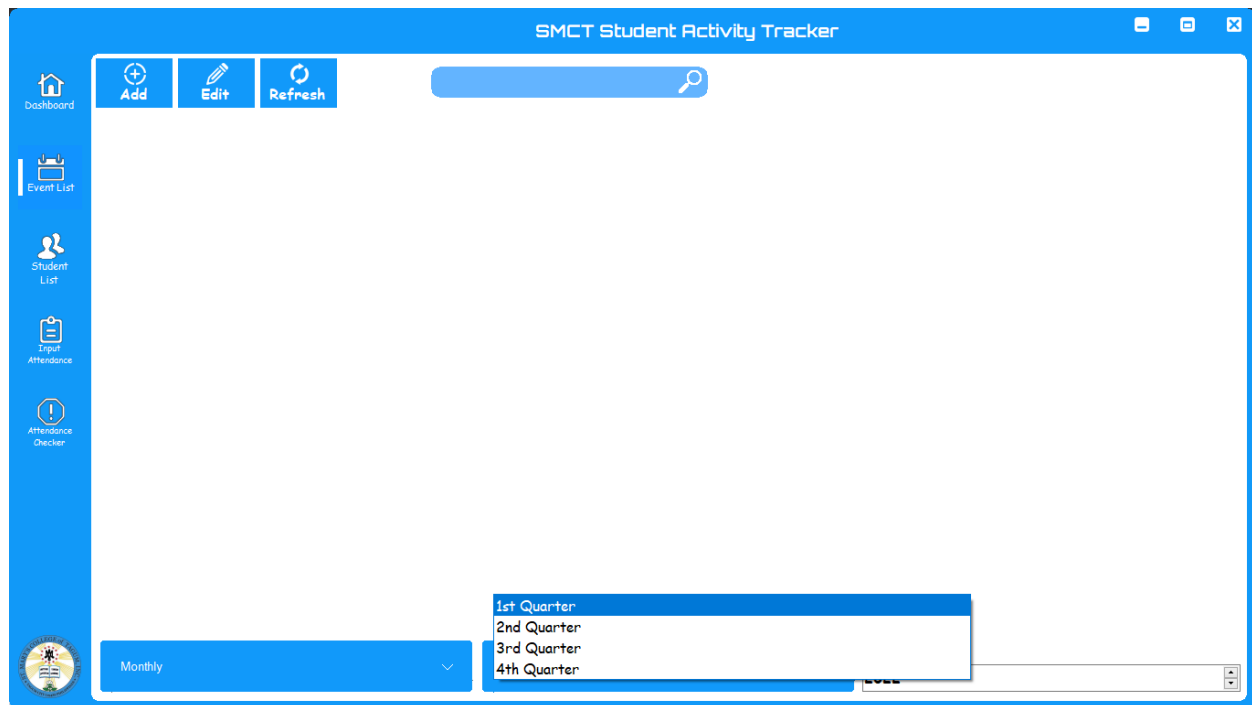


Figure 4-3.2 Event List Tab (Monthly)

Figure 4-3.3 Event List Tab (Quarterly)



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

Navigation:

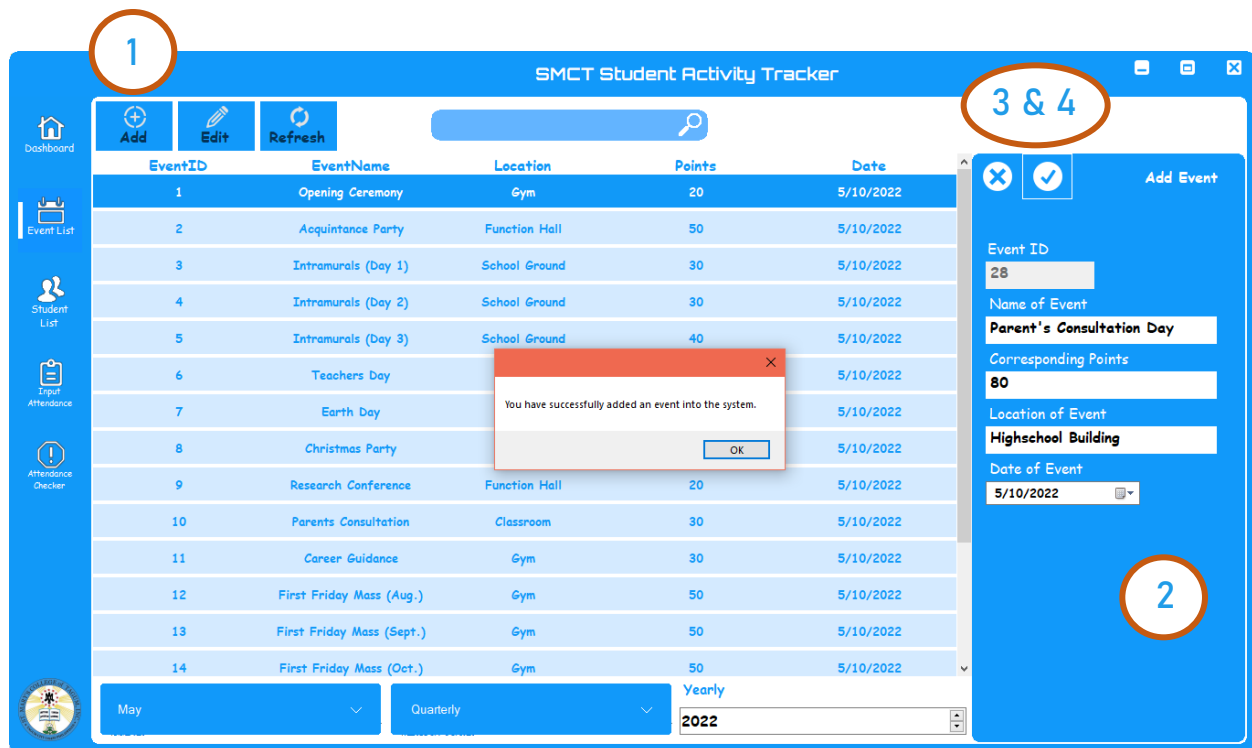1. Click the 'Event List' tab on the left side of the screen

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
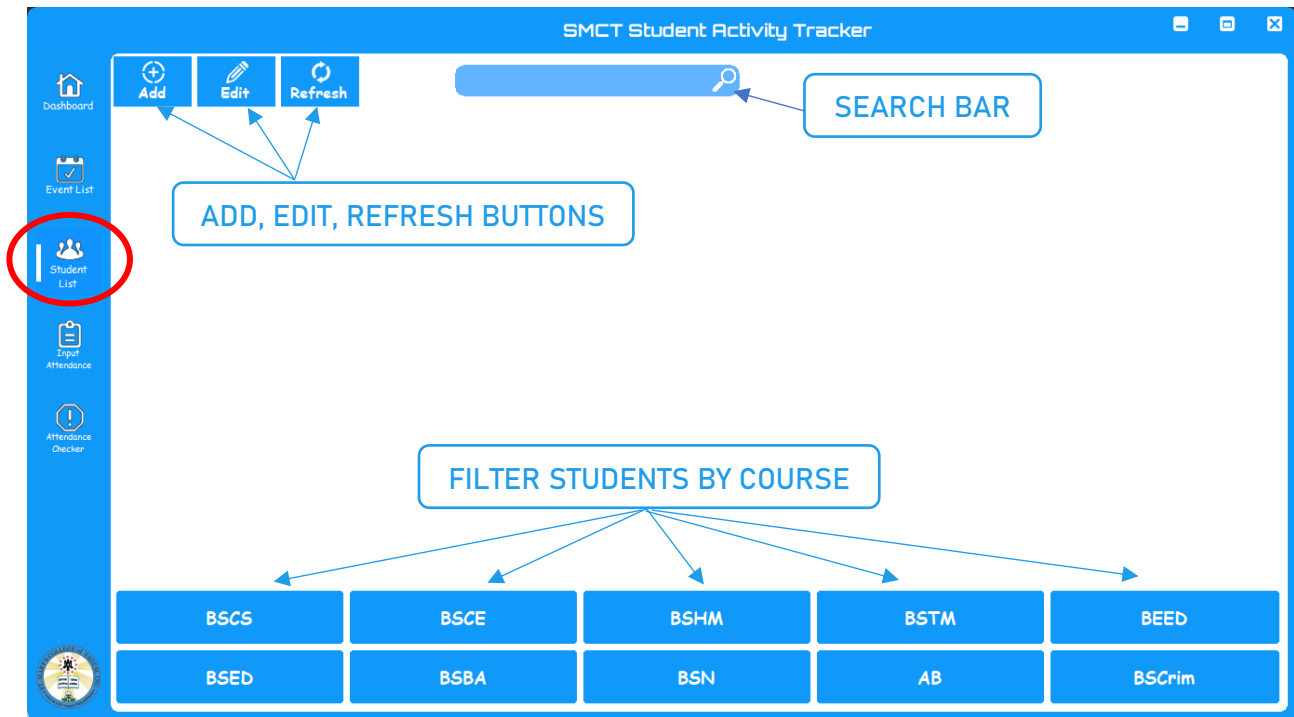6. If you want to cancel, click the x button on top of the "Add Event" panel

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

Figure 4-4.2 Student List Tab (Clicked a Course)



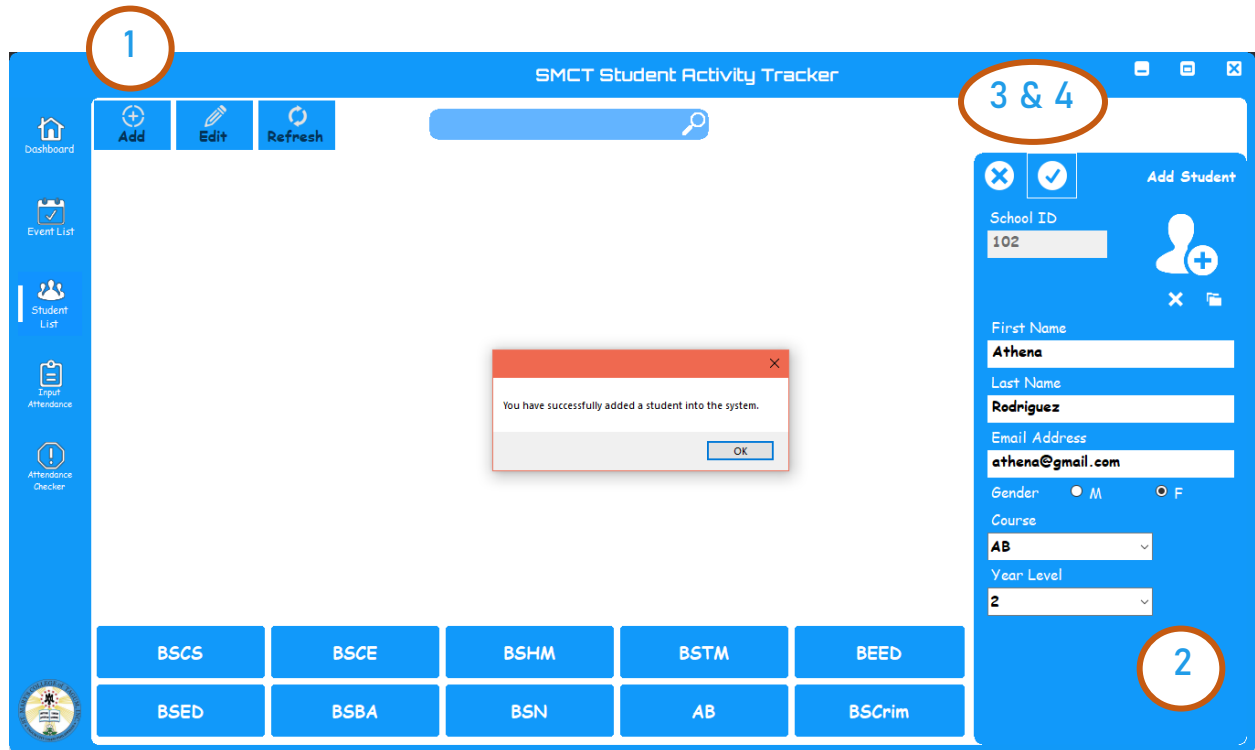Figure 4-4.3 Student List Tab (Clicked a Course)

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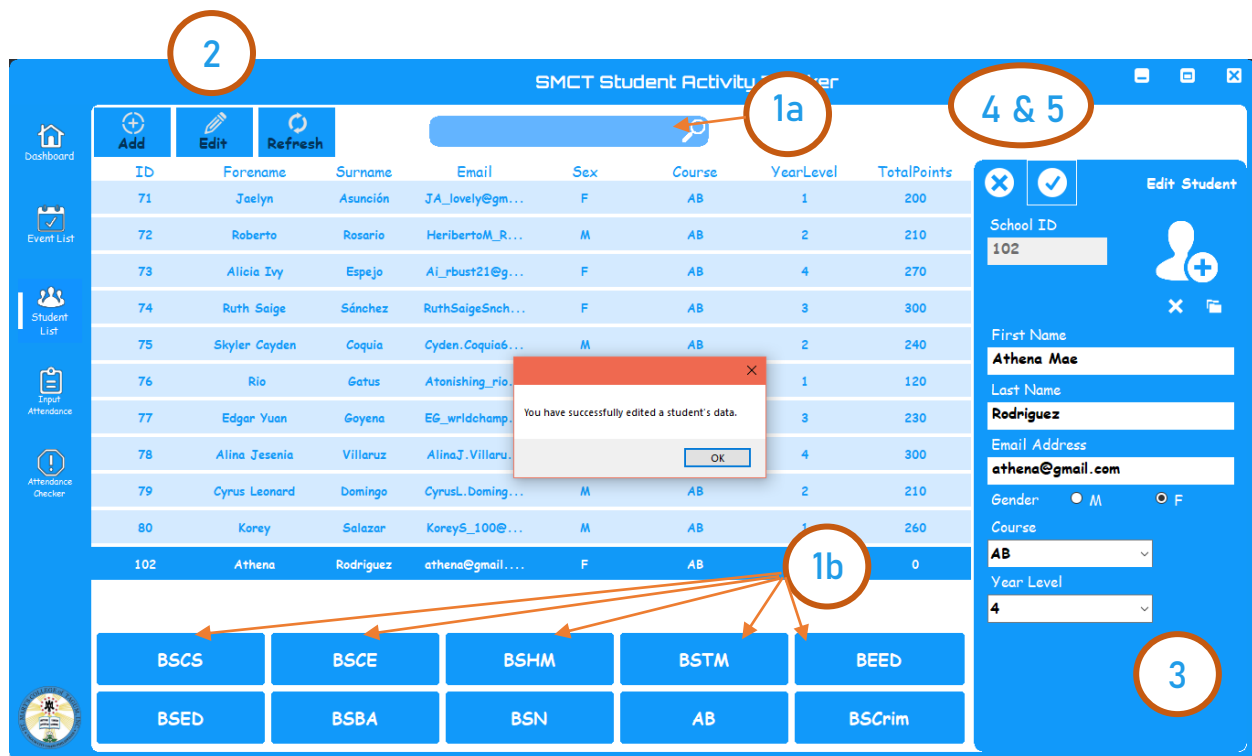
Figure 4-4.5 Student List Tab (Editing a Student's Data)

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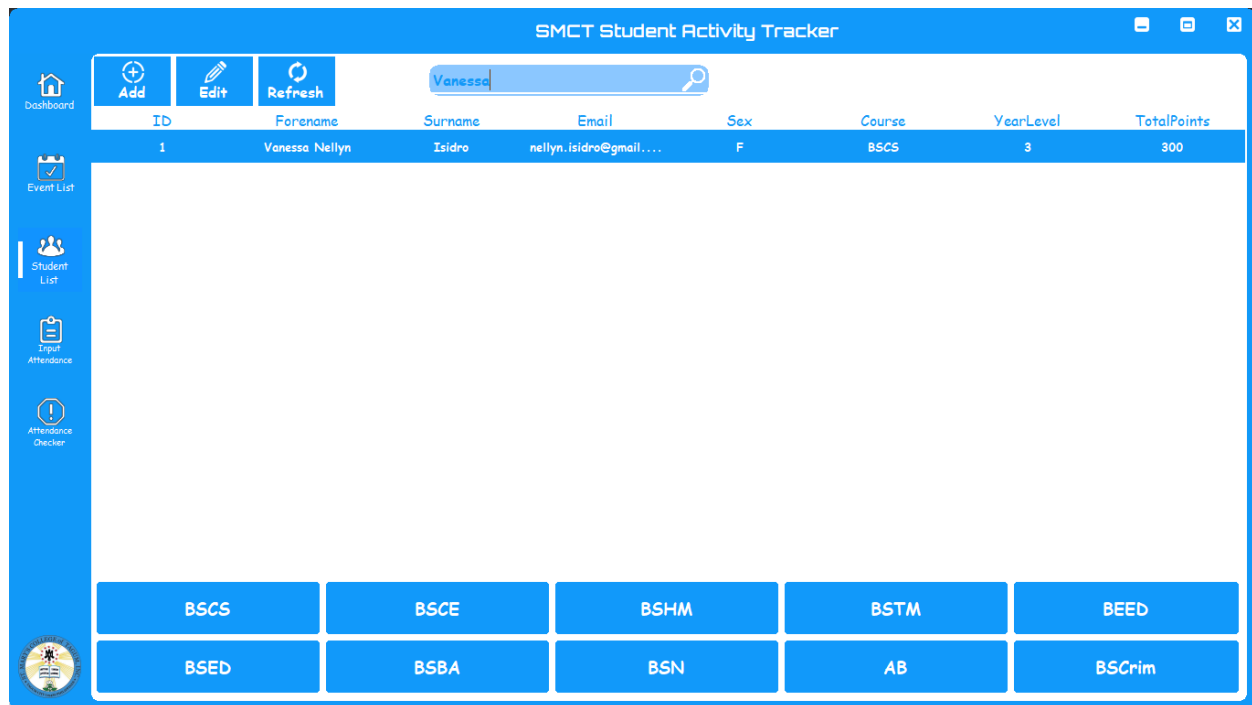
Figure 4-4.6 Student List Tab
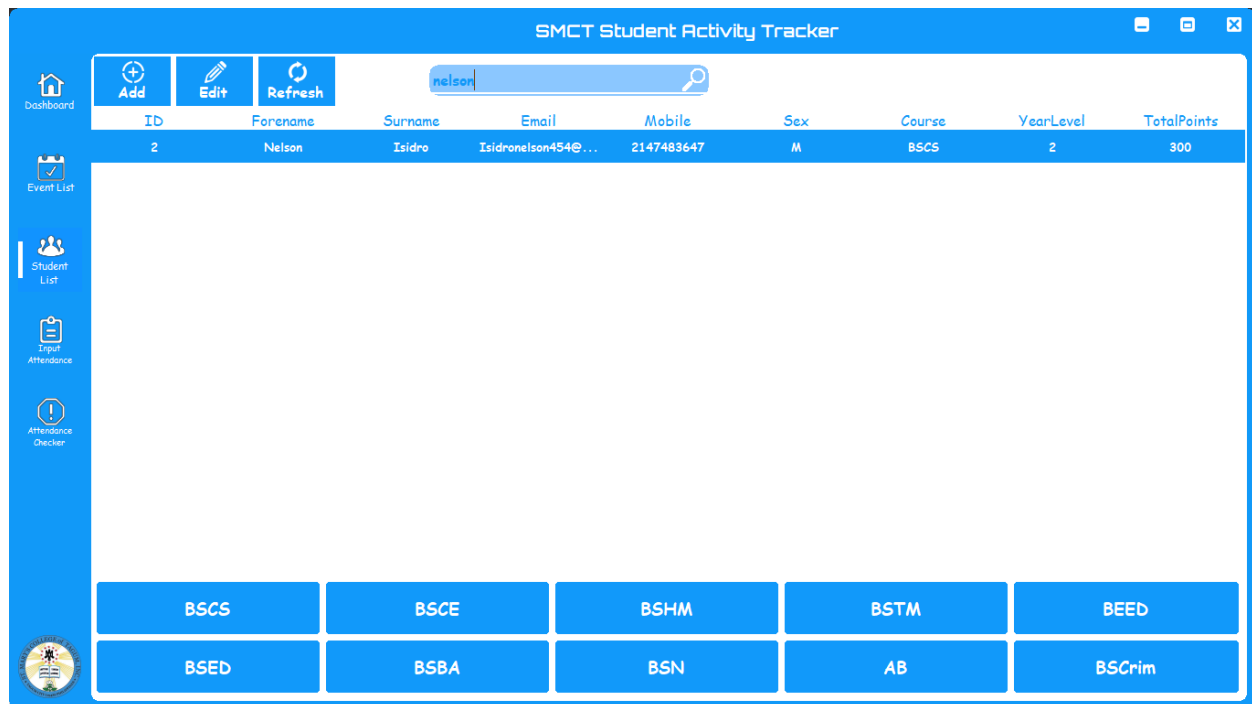
(Searching for a student using the search bar)



Figure 4-4.7 Student List Tab

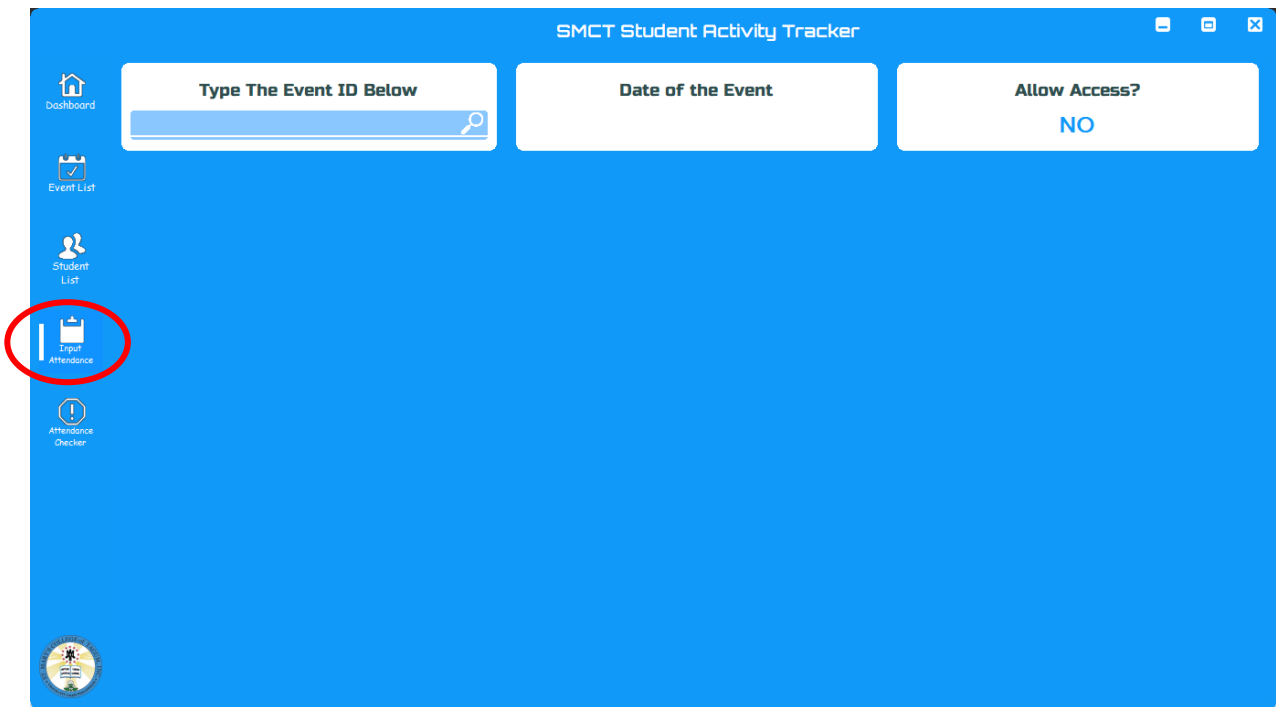(Searching for a student using the search bar)

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)

Figure 4-5.2 Input Attendance Tab (Access Allowed)

[The date of the event matches the current date]



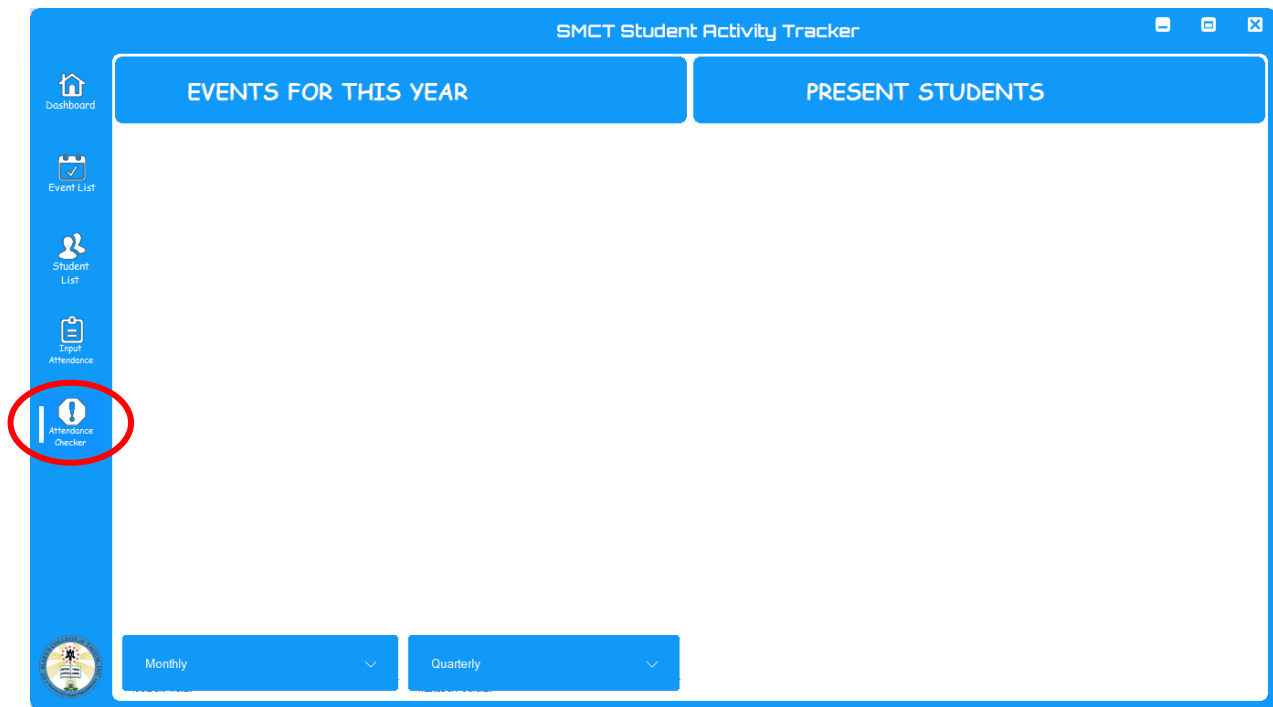Figure 4-5.3 Input Attendance Tab (Student Encoded to the System)

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
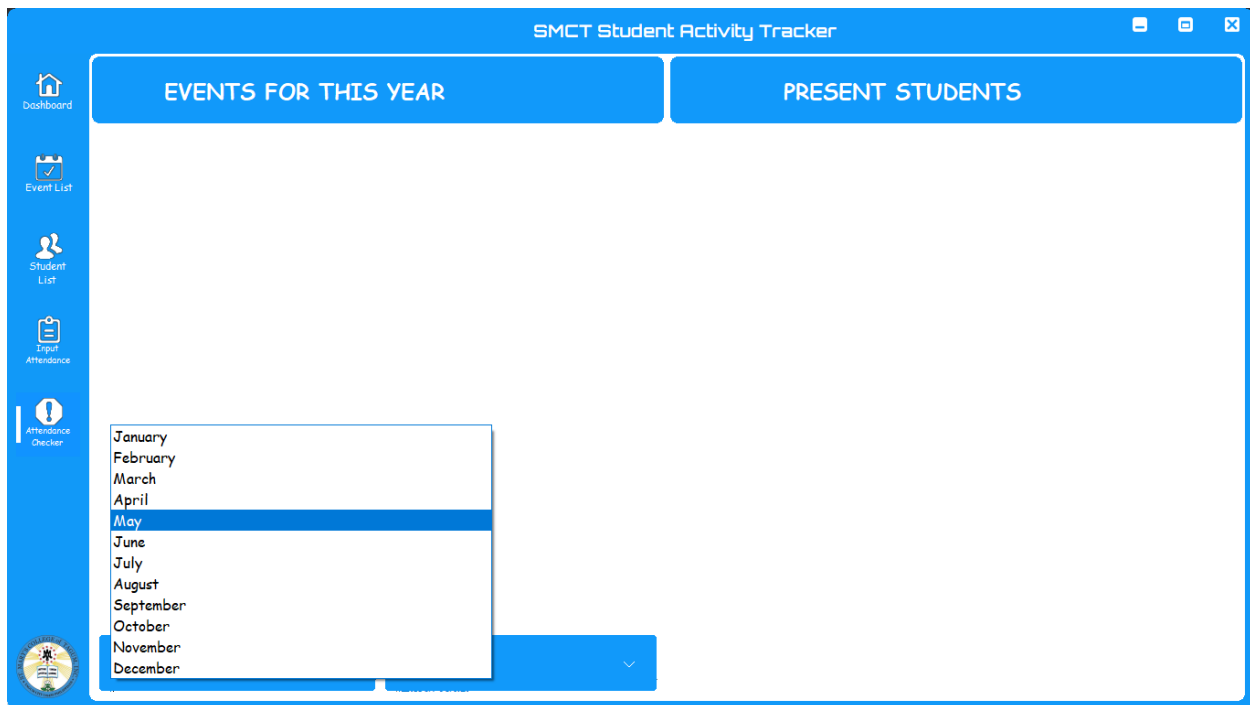3. Enter the Student ID (If successful, the student is encoded to the system)

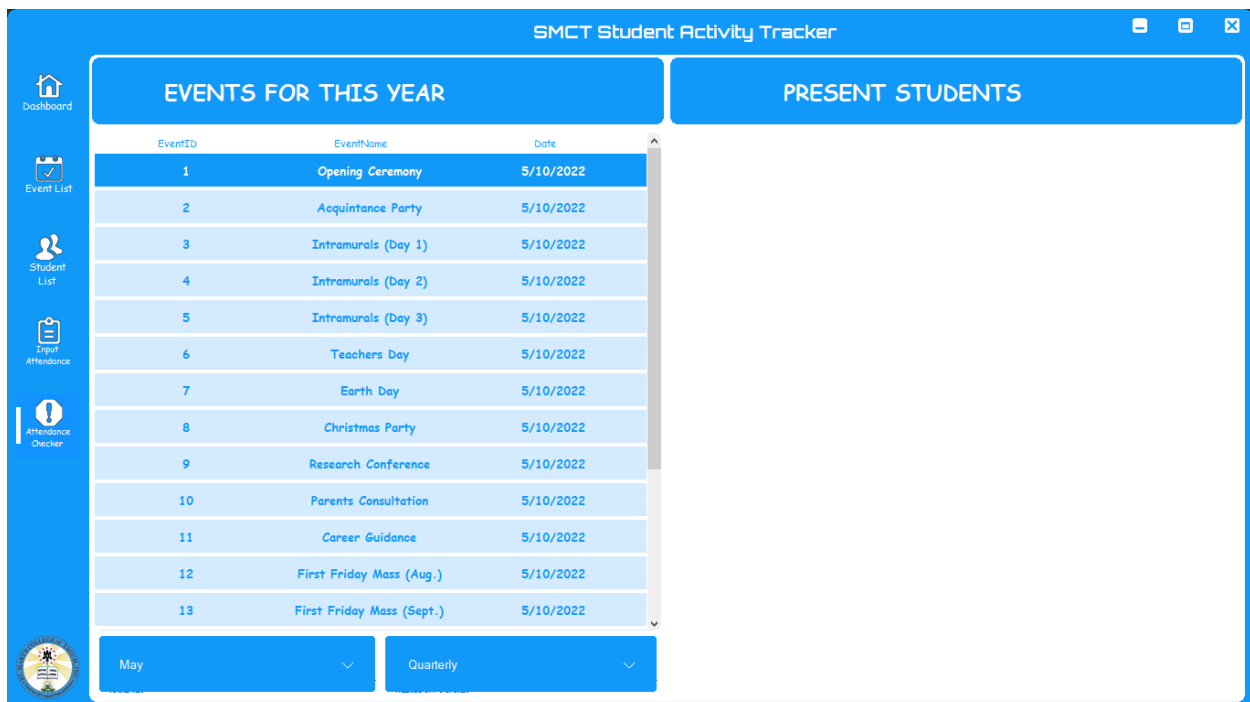Figure 4-6.2 Attendance Checker (Choose Date)



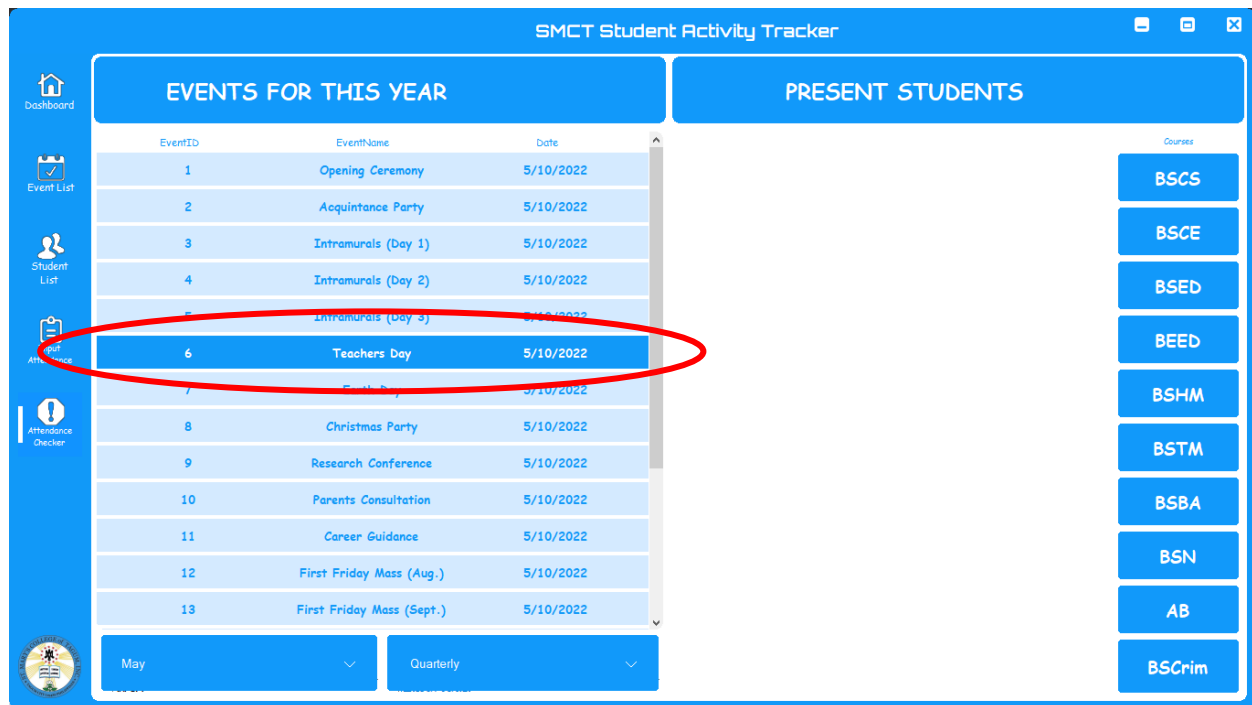Figure 4-6.3 Attendance Checker (Month of May)

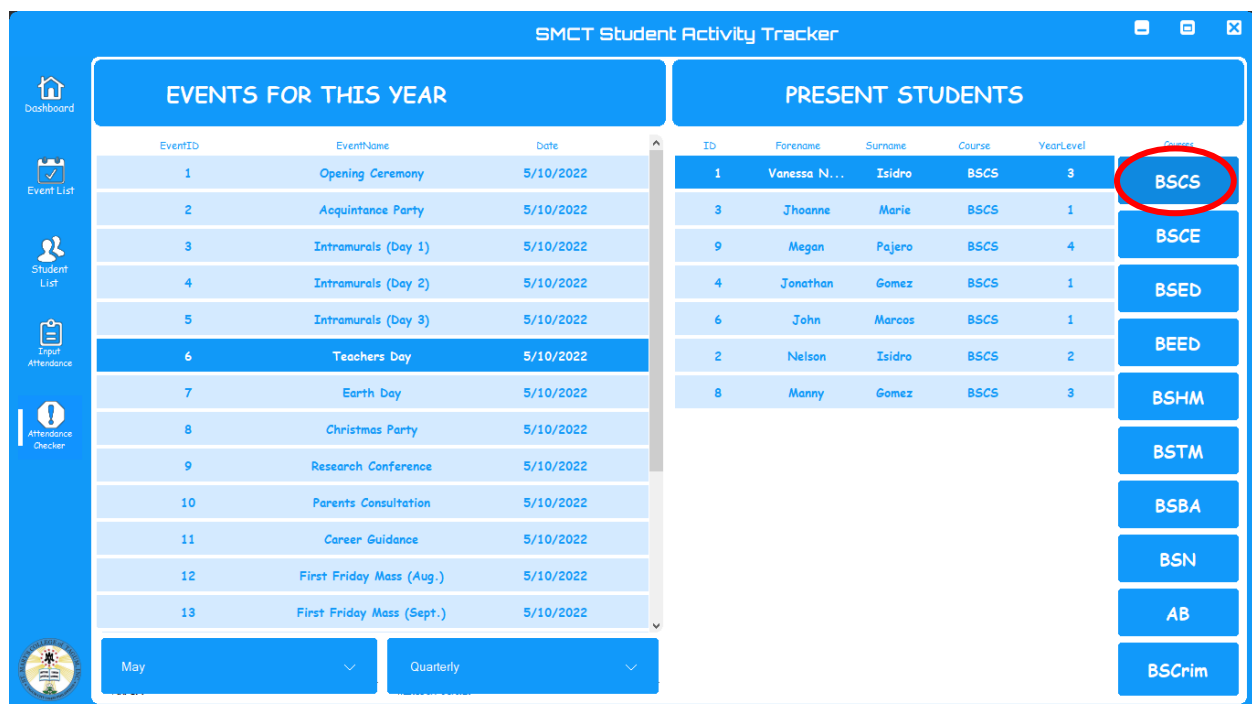Figure 4-6.4 Attendance Checker (Clicked the cell of an event)



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

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



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

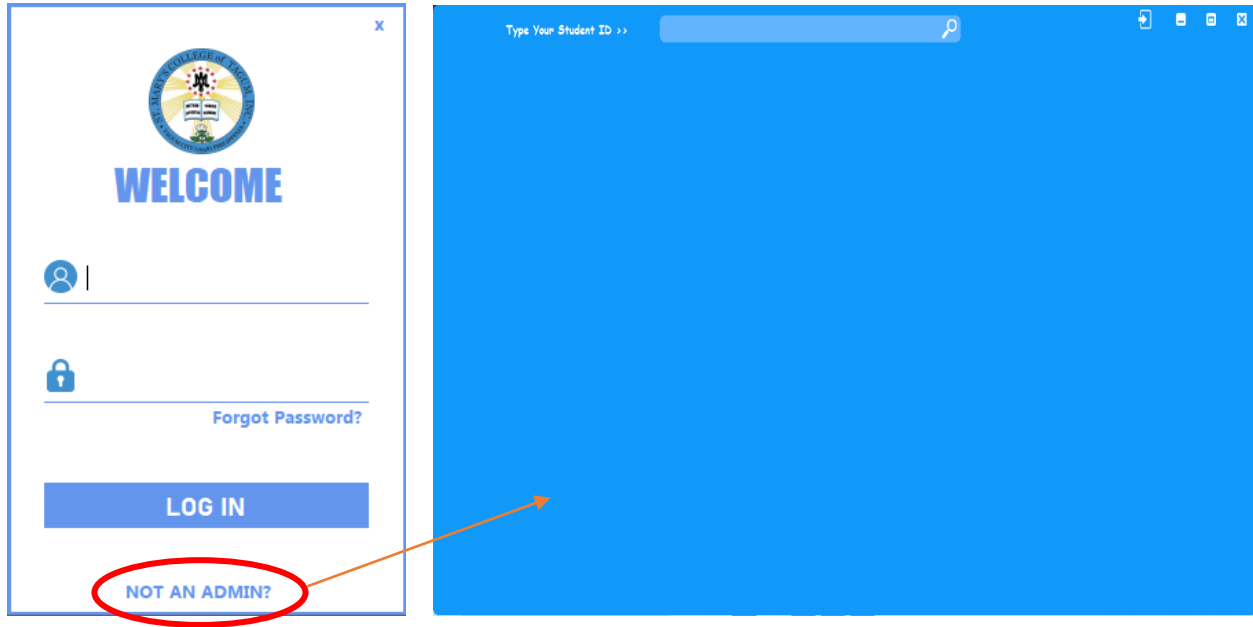Figure 4-7.1 Student Viewer

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
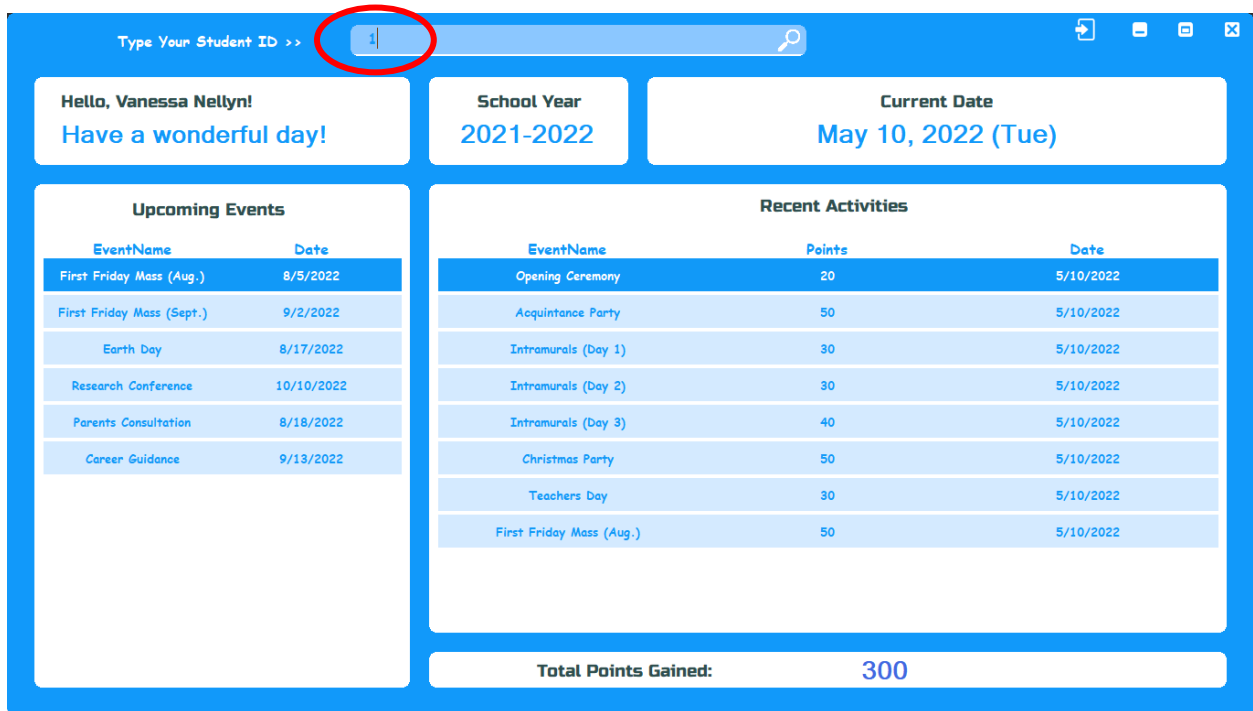3. Enter a student ID at the search bar on the top of the page

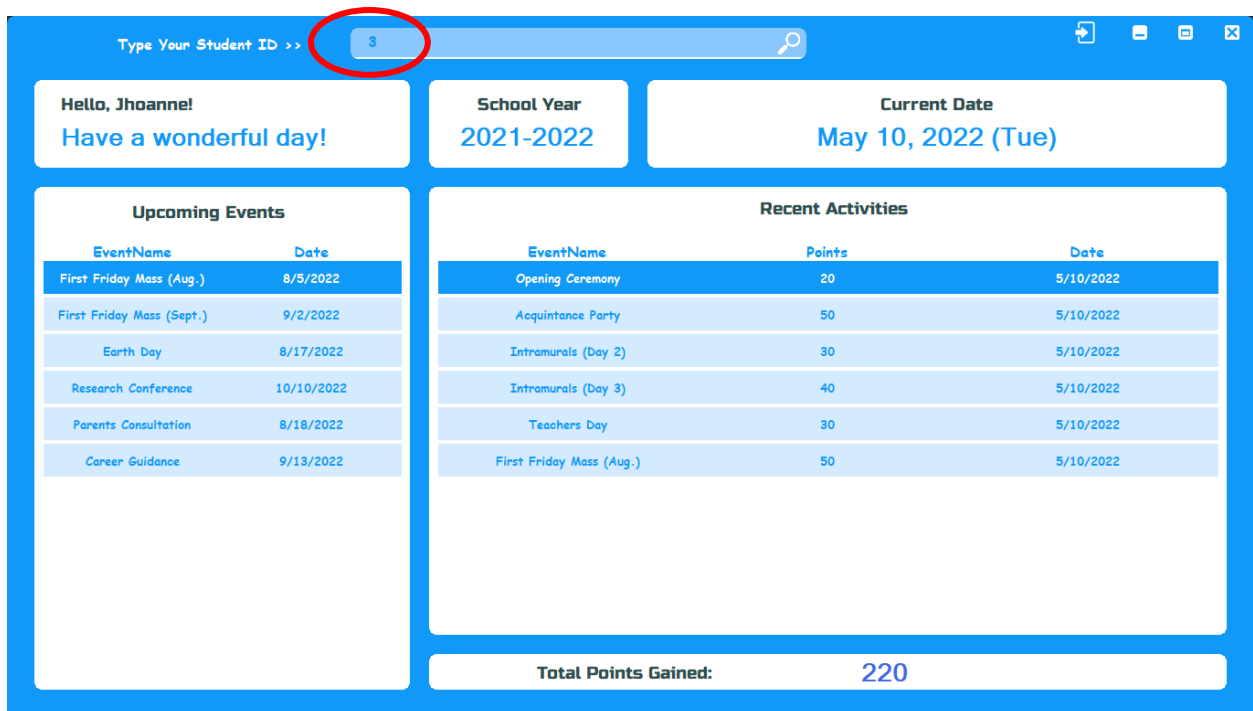Figure 4-7.2 Student Viewer (Entered a Student ID)



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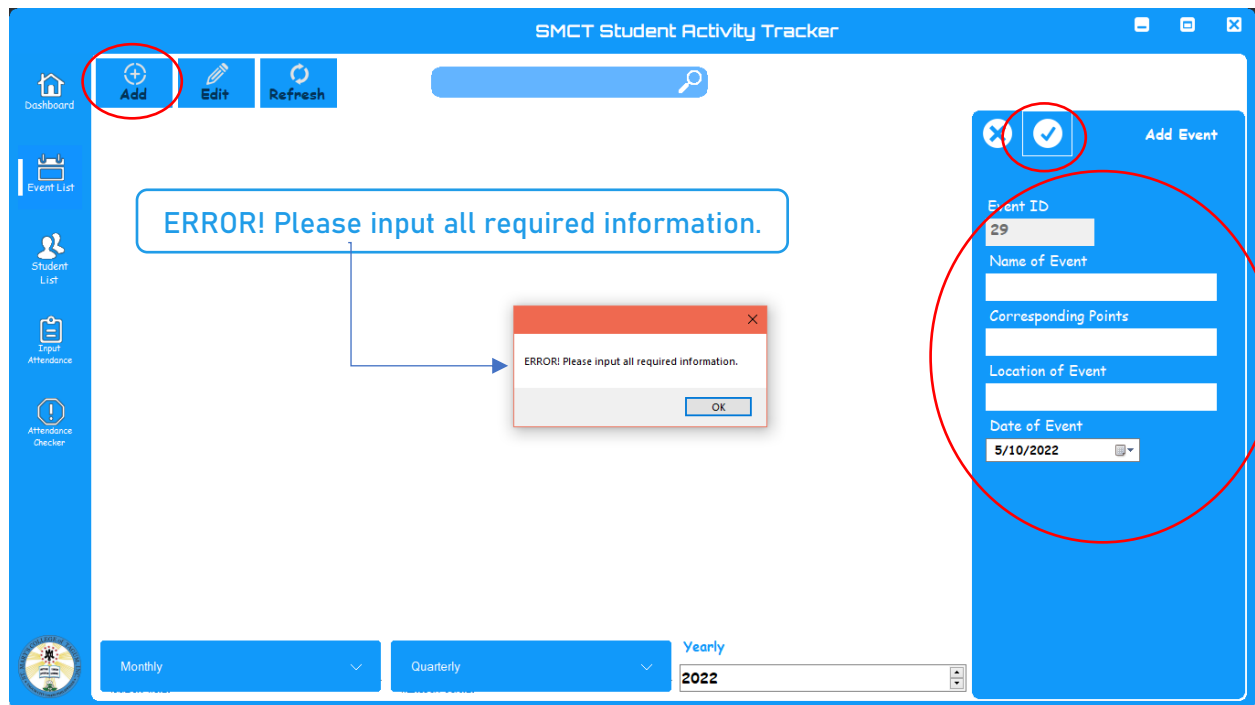
Figure 6-4.1 Error Checking for the adding/modifying of events – required all fields
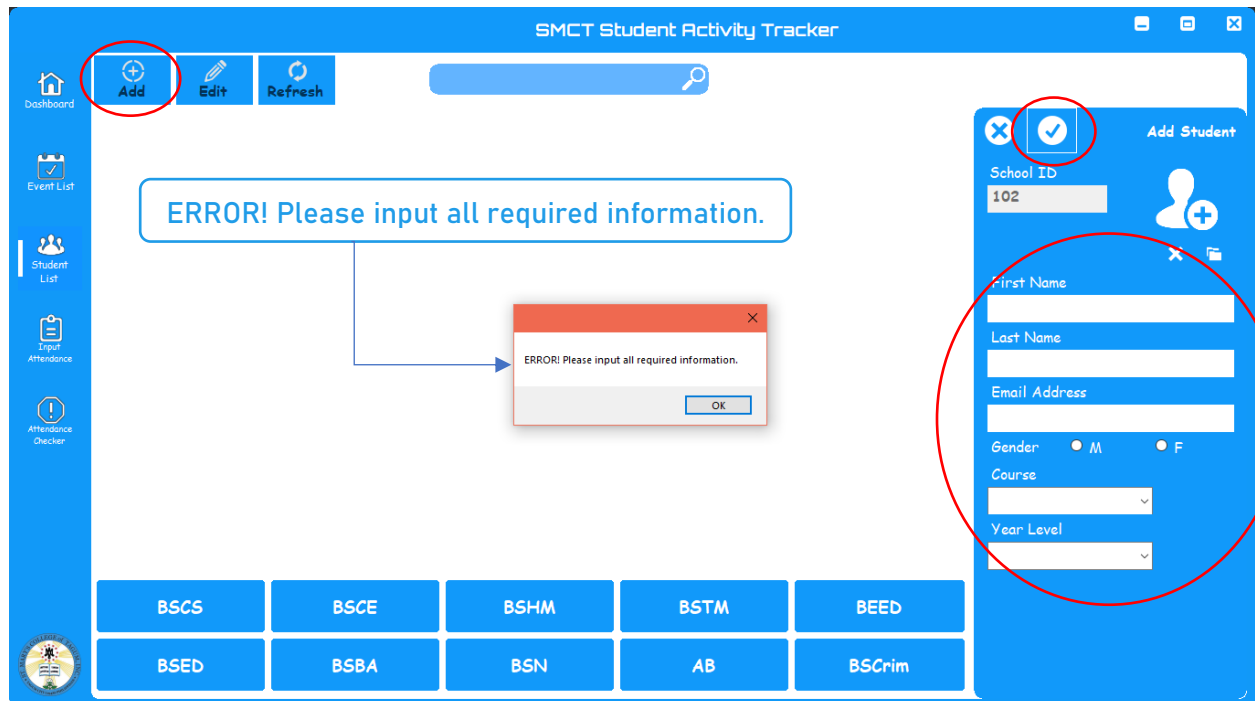


Figure 6-4.2 Error Checking for the adding/modifying of students – required all fields
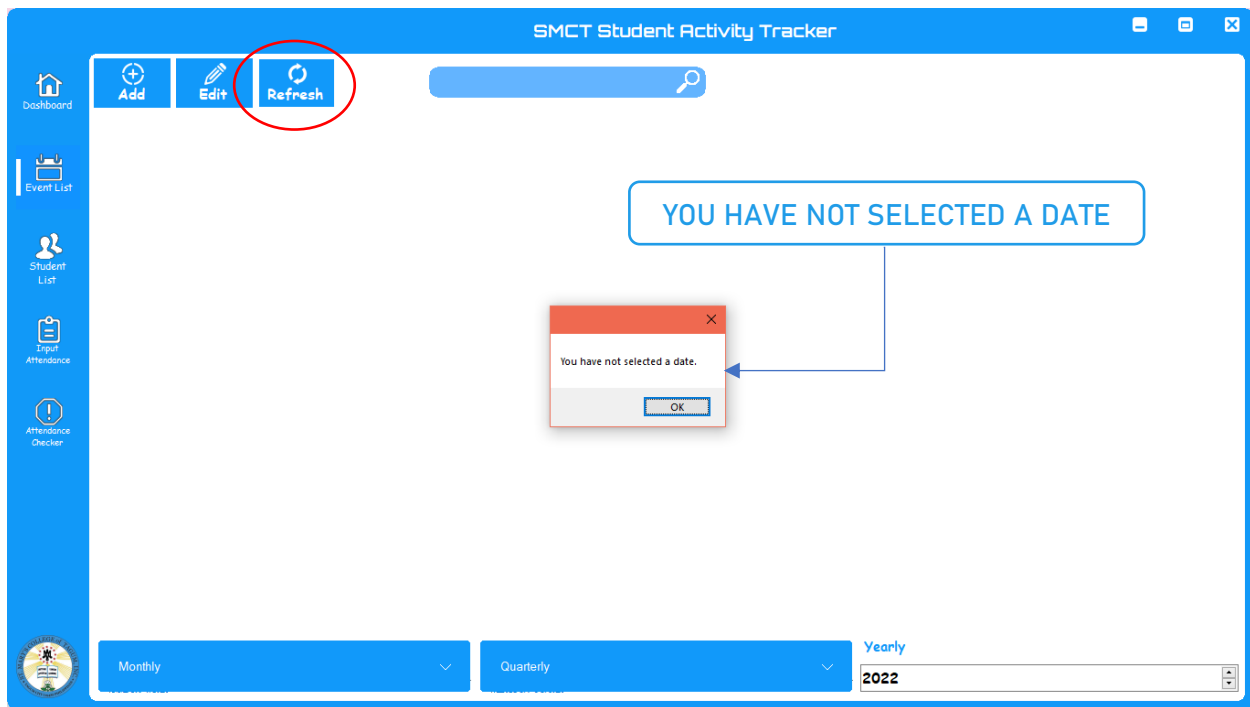
Figure 6-4.3 Error Checking for refreshing the data table in Event List – filter restriction
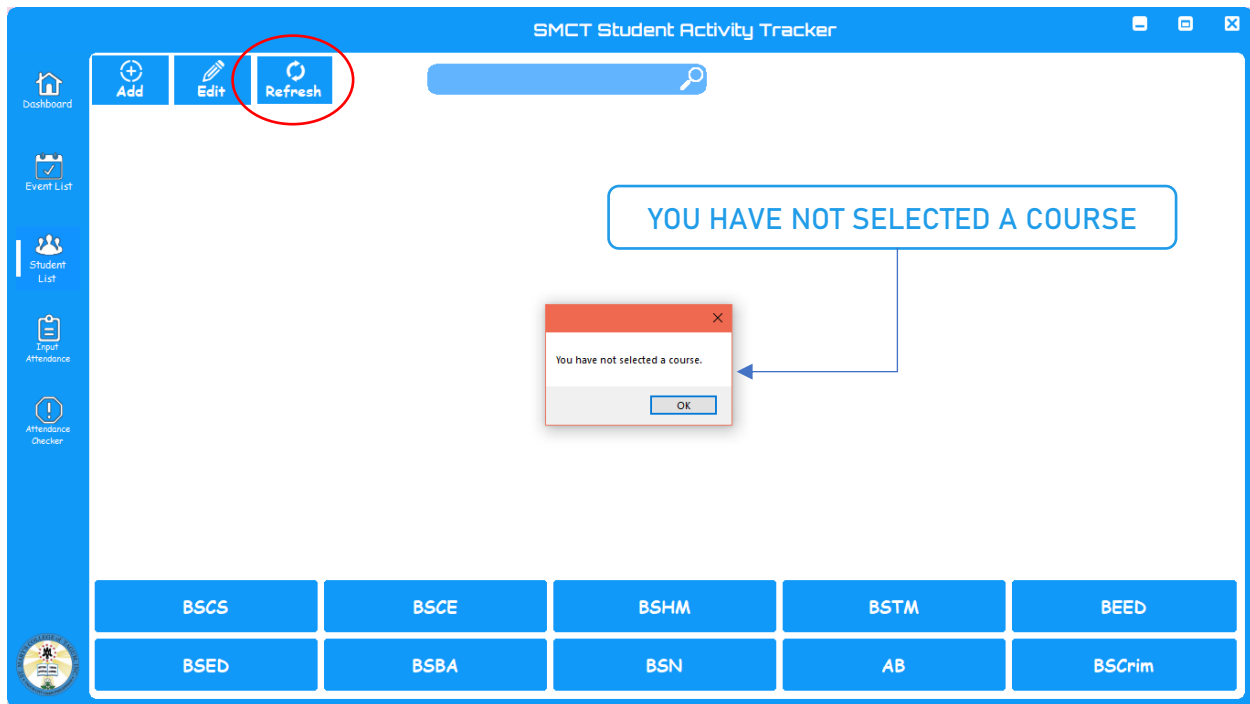


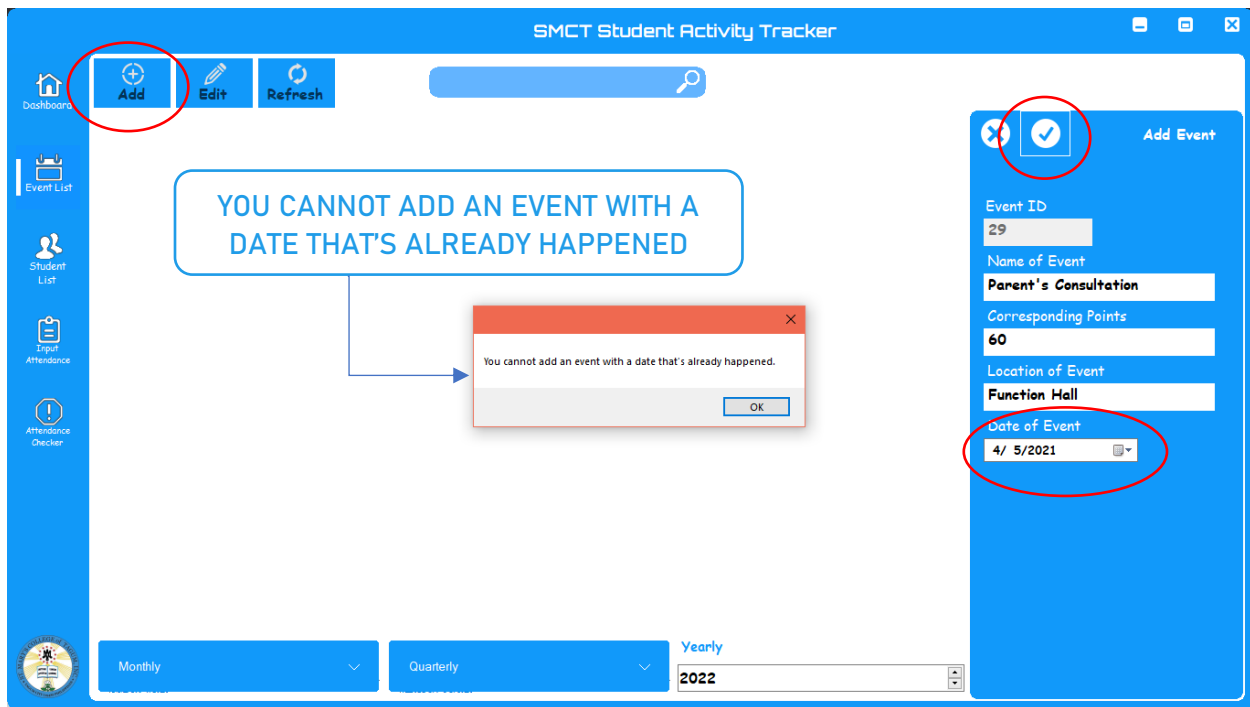Figure 6-4.4 Error Checking for refreshing the data table in Event List – filter restriction

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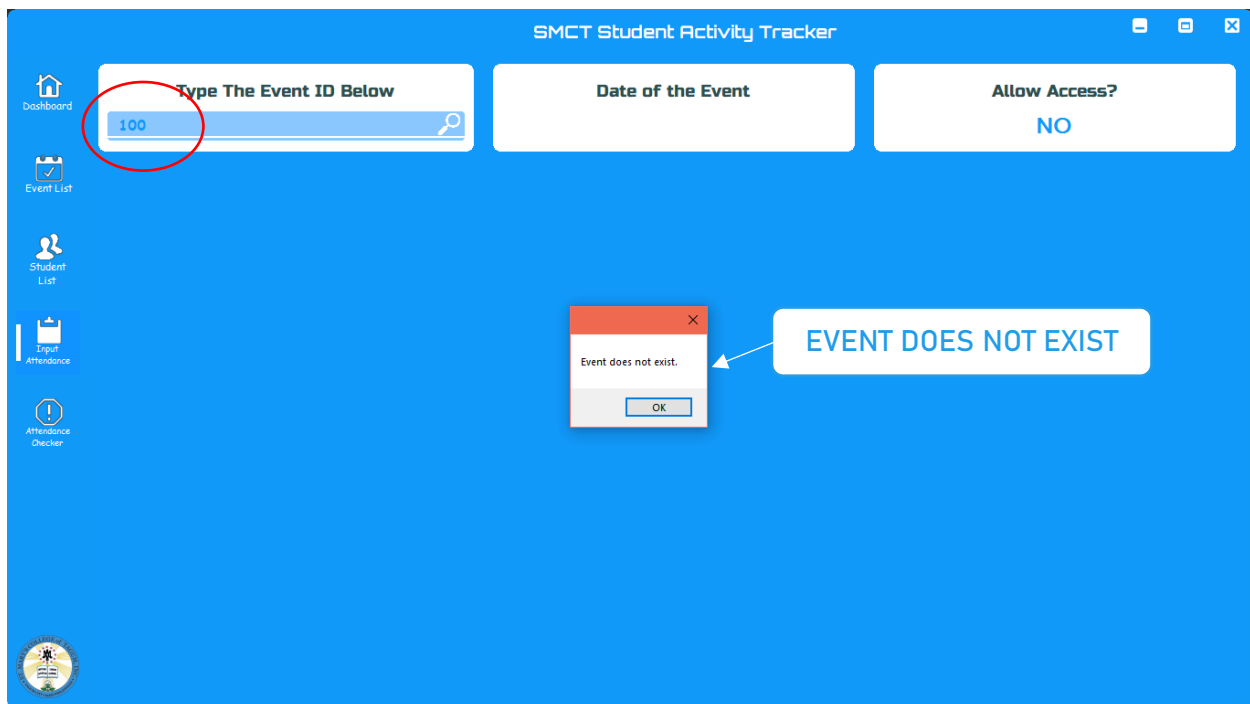


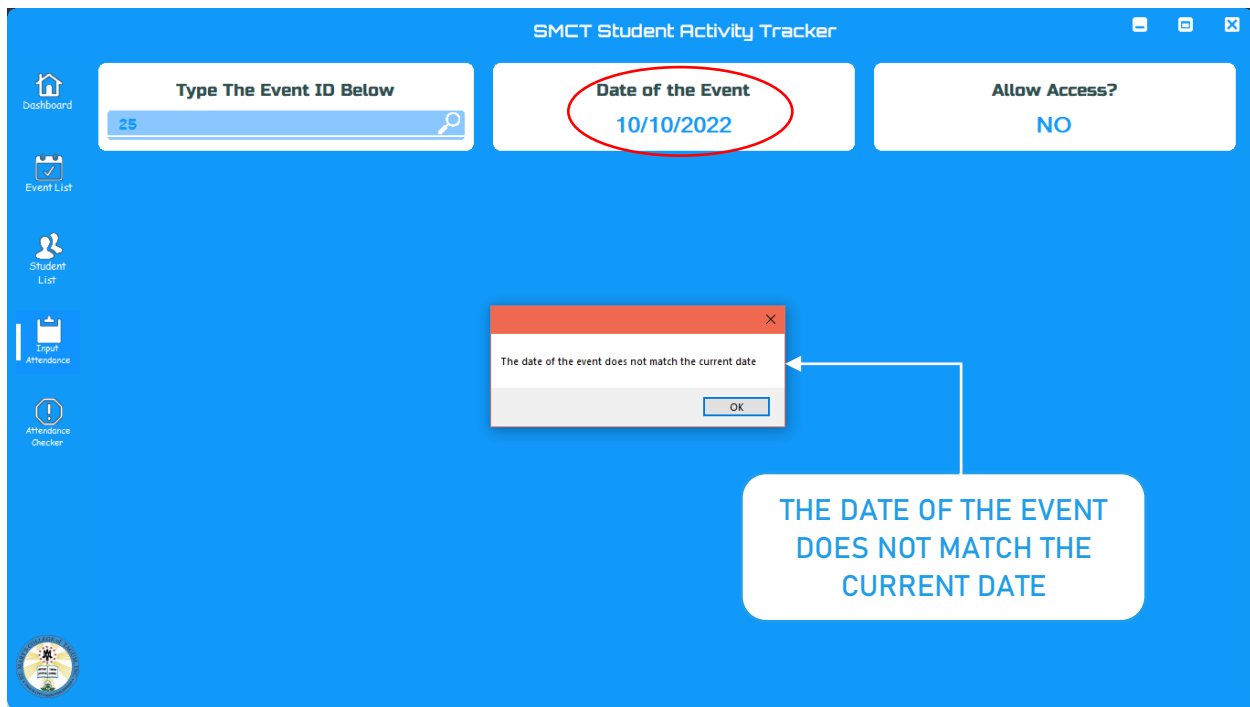Figure 6-4.6 Error Checking for the encoding of attendance – event not found

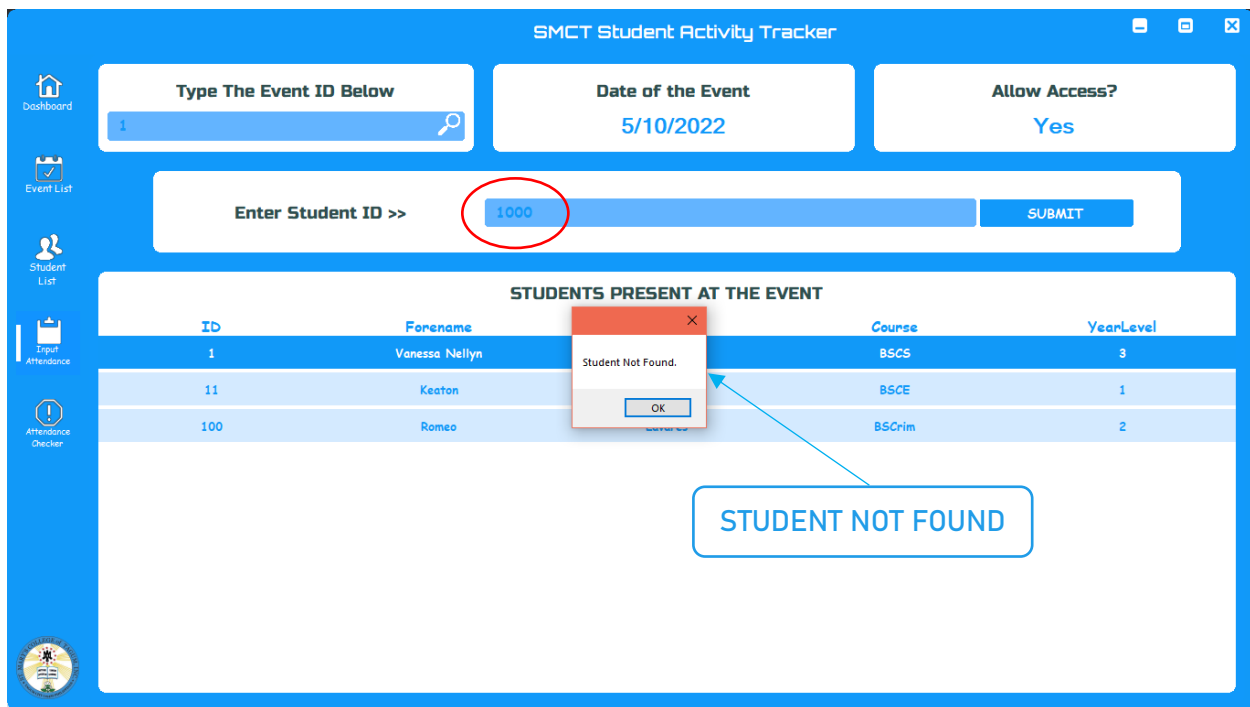Figure 6-4.7 Error Checking for the encoding of attendance – date restriction



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