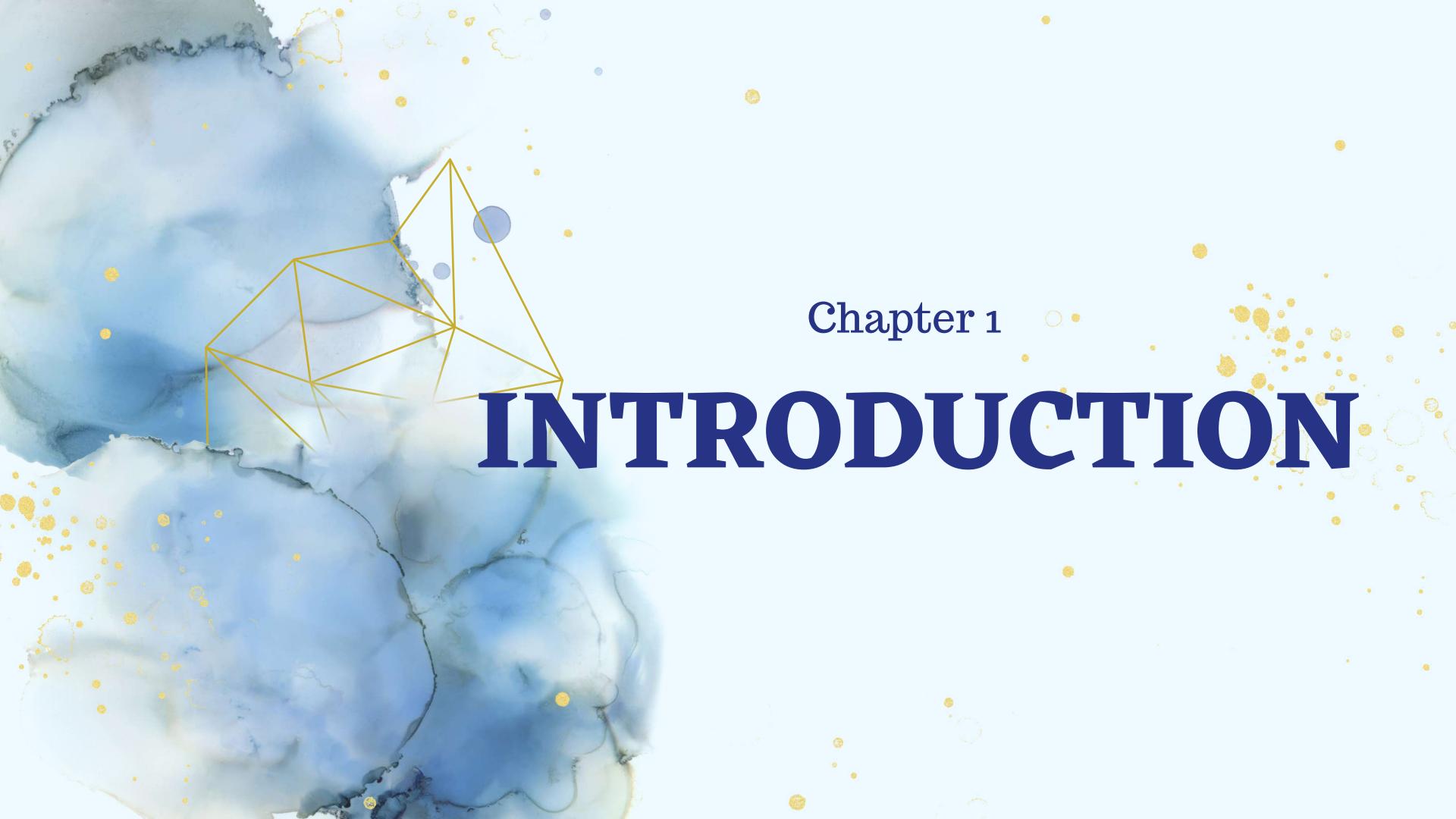


Company Event and Training Registration

Management System

LOW XIAO QIAN -B032210182 BITM S1G1



# Project Background

The Company events and training registration management system is designed to manage the registration process of various types of company events such as internal training, seminars, and workshop. This system provide efficiency to collect events details, tutors' information and staff information. The purpose of creating a system for registration is to build a platform for people easy to search and apply events.

## Project Statement

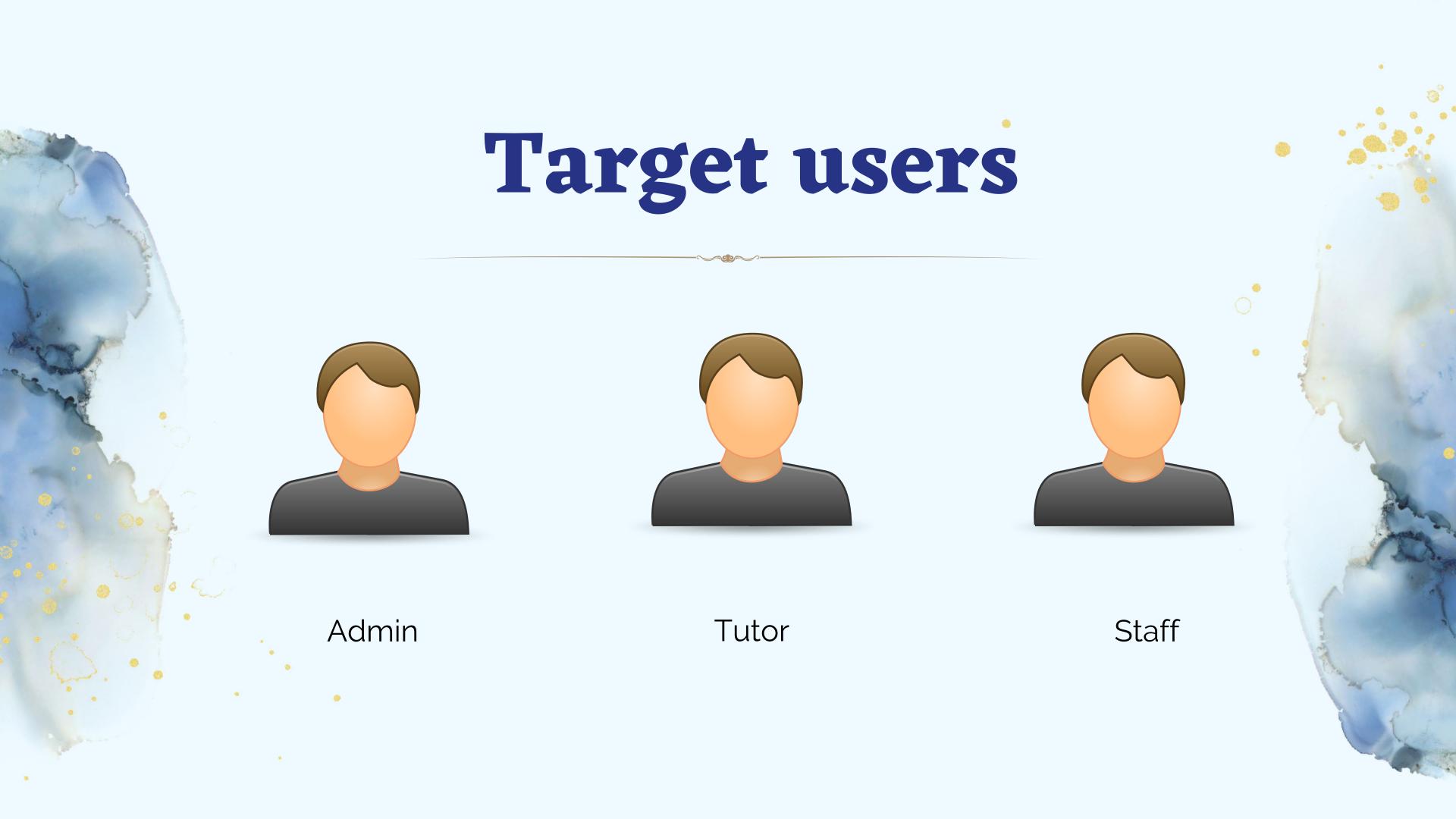
Many organizers still rely on manual methods such as using paper-based registrations and email, to distribute event information. This may lead to mistakes and inefficiencies because the time required to distribute event information is longer. And mistakes are not allowed since it may result in confusion among tutors and staffs and will even affect the event's reputation.



- To study the problem that is faced by the company for managing the registration of educational events and training.
- To develop and design company events and training registration management system.
- I.To generate report for company events and training registration management system that was created for this project.

## Project Significance

- Reducing the risk of miscommunication
- Improving event management efficiency
- Reach company's strategic goals



# Scopes

### Sign up

Admin, tutors and staff can register their own information by using user ID, username, age, gender, phone number and password.

## Login

Admin, tutors and staff can login by entering the correct username and password.

#### Add/ Delete/ Update

Admin able to add, delete, and update tutor, staff and events information. Tutors can add and update events and their own information in the system, while staff can only update their own information.

### Display table

Admin able to display all the records in the system. Tutors can view their events, tutors list, staff list and list of attendees that registered for their event. staffs are only able to display the events list to registration.

## Chapter 2

# SYSTEM ANALYSIS



# Problem Description

As we know there are many companies still using manual methods to record the registration of the events such as seminars, workshop and internal training. A lot of time will be spent on managing the process of registration. Some mistakes might happen when using manual method, such as missing documents, since they mostly use paperwork to record and cause inefficiency.

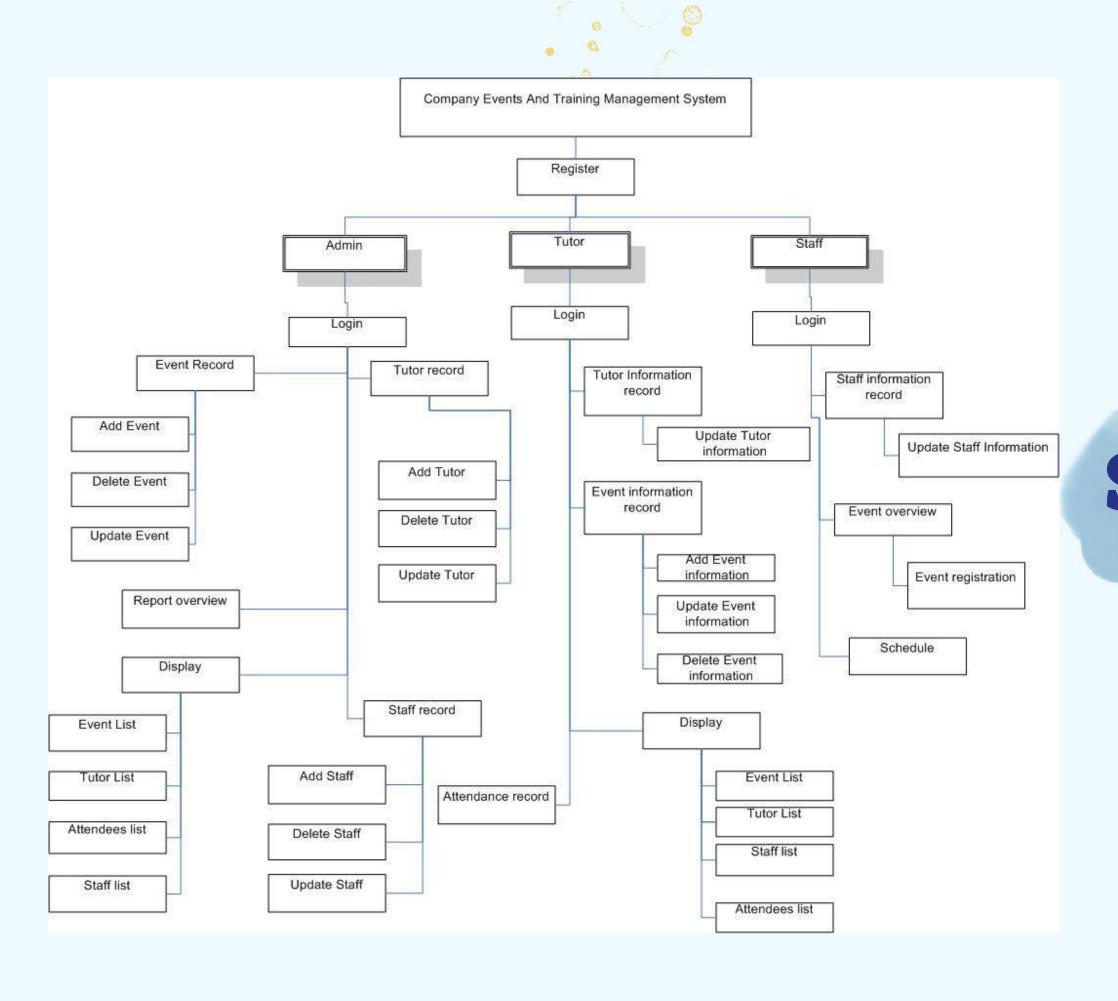
# Problem Decomposition

- Admin able to manage all information of admin, tutor, staffs and events by add, delete and update.
- Tutor and staff can only manage their own information.
- Admin and tutor able to view total number of staffs who attend the events that provide by company easily that have record by system.

# Project Significance

- 1 Reducing the risk of miscommunication
- 2 Improving event management efficiency
- 3 Reach company's strategic goals

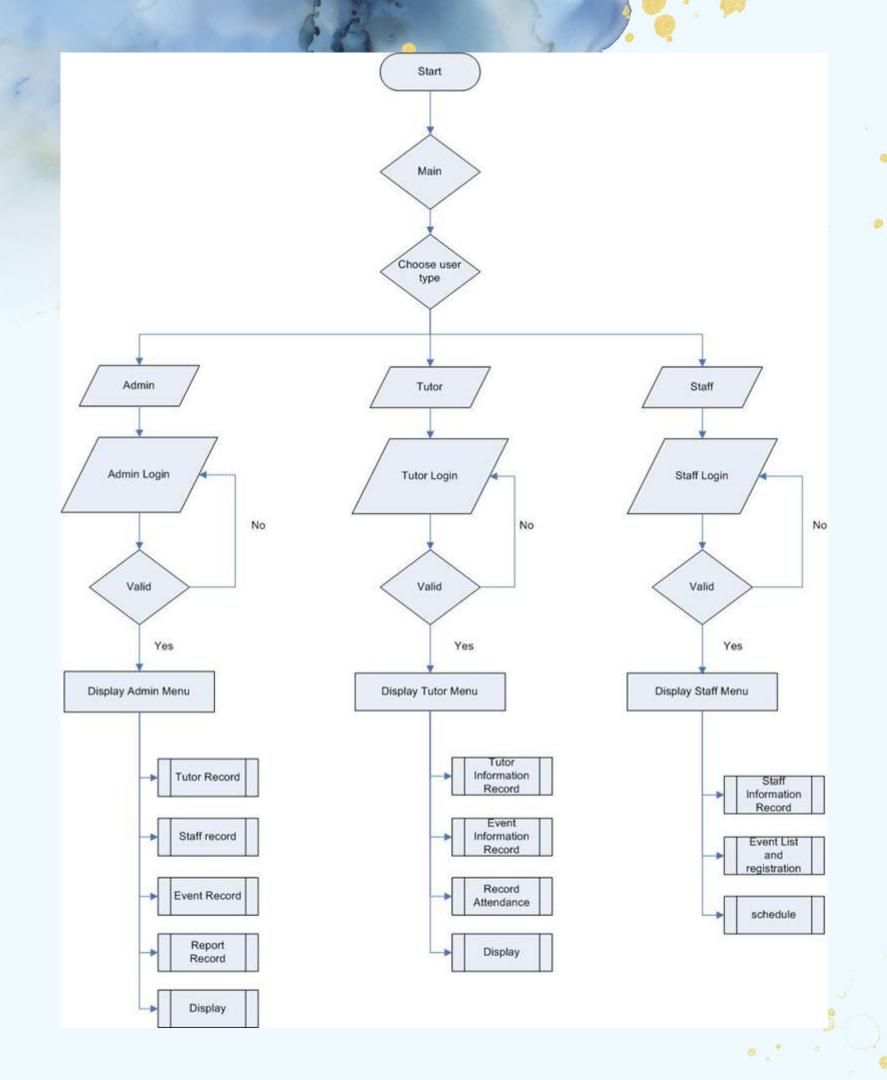




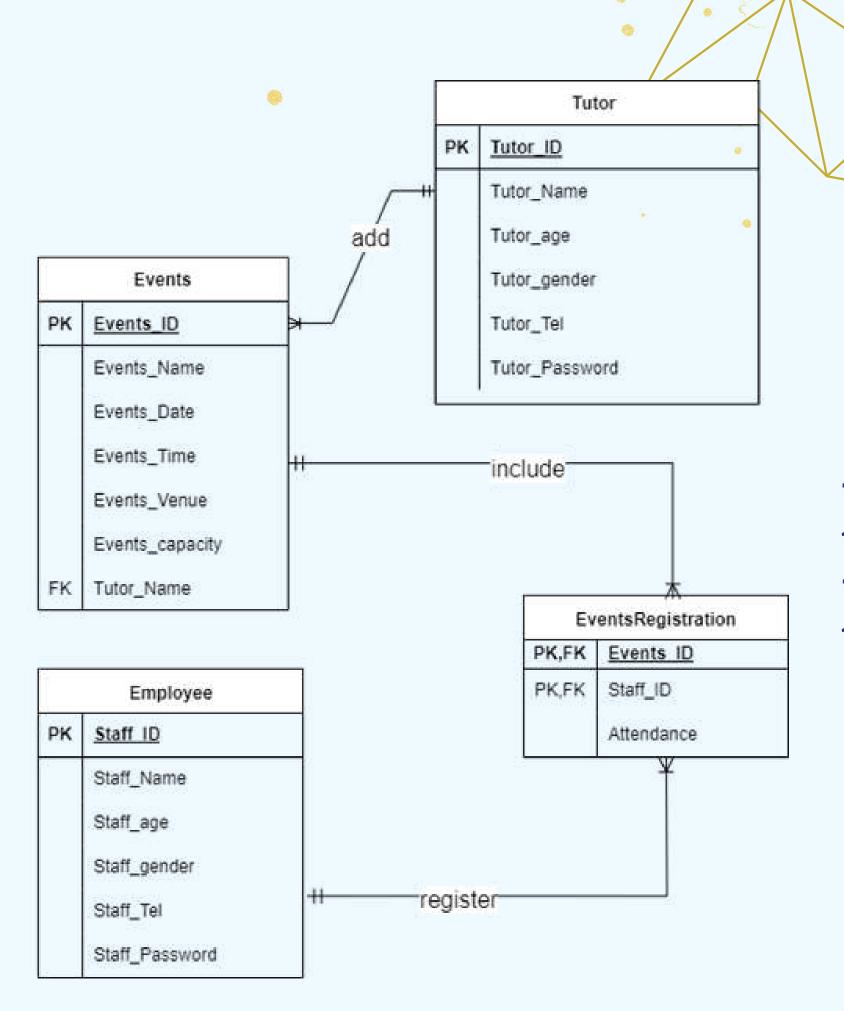




# Flow Chart







# Entity Relation Diagram (ERD)

## Data Dictionary

#### Admin

Attribute name	Data type and size	Range	Not null?	Default value	Unique?	PK or FK	FK reference table
Admin_ID	INT (11)		Yes		Yes	PK	
Admin_Name	VARCHAR2 (50)		Yes				
Admin_Age	INT(3)		Yes				
Admin_Gender	VARCHAR2 (7)		Yes				
Admin_Tel	VARCHAR2 (20)		Yes				
Admin_Password	VARCHAR2 (20)		Yes		Yes		

#### Events

Attribute name	Data type	Range	Not	Default	Unique?	PK	FK
	and size		null?	value		or	reference
						FK	table
Events_ID	INT(11)				Yes	PK	
Events Name	VARCHAR2		Yes				
_	(50)						
Events_Date	VARCHAR2		Yes				
	(20)						
Events_Time	VARCHAR2		Yes				
	(20)						
Events_Venue	VARCHAR2		Yes				
_	(100)						
Events capacity	INT (11)		Yes				
Tutor ID	INT(11)		Yes			FK	Tutor
_	` ′						

#### Tutor

Attribute name	Data type and size	Range	Not null?	Default value	Unique?	PK or FK	FK reference table
Tutor_ID	INT (11)				Yes	PK	
Tutor_Name	VARCHAR2 (50)		Yes				
Tutor_Age	INT(3)		Yes				
Tutor_Gender	VARCHAR2 (7)		Yes				
Tutor_Tel	VARCHAR2 (20)		Yes				
Tutor_Password	VARCHAR2 (20)		Yes		Yes		

#### Staff

Attribute name	Data type	Range	Not	Default	Unique	PK	FK
	and size		null	value	?	or	reference
			?			FK	table
Staff_ID	INT (11)				Yes	PK	
Staff_Name	VARCHAR		Yes				
	2 (50)						
Staff_Age	INT (3)		Yes				
Staff_Gender	VARCHAR		Yes				
	2 (7)						
Staff_Tel	VARCHAR		Yes				
	2 (20)						
Staff_Password	VARCHAR		Yes		Yes		
	2 (20)						

#### EventsRegistration

Attribute name	Data type	Range	Not	Default	Unique?	PK or	FK
	and size		null?	value		FK	reference
							table
Events_ID	INT(11)					PK,FK	Events
Staff ID	INT(11)					PK,FK	Staff
Attendance	INT(3)		Yes				



# Selection

```
MainMenu()
system("cls");
har user:
cout << "\t\t| Welcome to Company Events and Training Registration Management System
                                                                                 ==" << endl;</pre>
cout << "\t\t|1. Admin
                                                                                  " << endl:
cout << "\t\t|2. Tutor
                                                                                  " << endl;
cout << "\t\t|3. Staff
                                                                                  " << endl;
cout << "\t\t|4. Exit
                                                                                  |" << endl;
cout << "\t\tChoice: ";
cin >> user;
switch (user)
case '1':
  AdminMainMenu();
  break;
case '2':
  TutorMainMenu();
  break;
  StaffMainMenu();
  break;
case '4':
  cout << "Exiting..." << endl;
  exit(0);
  cout << endl << "Please enter a number between 1 - 4 to continue."<<endl;
  system("pause");
   system("cls");
```

## Array

```
lass::Register(string user)
alphaCount=8; numCount=8;
ng checkkey
em("cls");
ignore();
                                       Welcome " + user + "
<< "\t\tPlease insert following information to register: " << endl;</pre>
<< *\t\t1.Name</pre>
ine(cin, Name);
<< "\t\t2.Age</pre>
ine(cin, age);
<< "\t\t3 Gender</pre>
ine(cin, gender);
<< "\t\t4.Contact numbers : ";</pre>
ine(cin, Tel);
<< "\t\t5.Password (Your password should contain letter and number) : ";</pre>
ine(cin, Password);
 char* passwordArray = Password.c_str();
(int i = 0; i < Password.length(); i++)
if (isalpha(passwordArray[i]))
    ++alphaCount;
else if(isdigit(passwordArray[i])) {
    ++numCount;
  (alphaCount >= 1 && numCount >= 1) {
```

#### Pointer

```
public:
    int userID;
    int qstate = 0;
    MYSQL* conn = nullptr;
    MYSQL_ROW row = nullptr;
    MYSQL_RES* res = nullptr;
```

#### Calculation

#### Function

```
void AdminMainMenu();
void TutorMainMenu();
void StaffMainMenu();
void AdminMenu();
void StaffMenu();
void record(string);
void userMenu(string);
void TutorMenu();
void tutorrecord();
void Staffrecord();
void eventrecord(string);
void display(string);
void eventdisplay();
void report();
```

#### control

```
if (T_record == 1)
   cin.ignore(256, '\n');
   char add = C.add(user);
   while (add == 'y' || add == 'Y')
      add = C.add(user);
   if (add == 'n! || add == 'N')
      system("cls");
      cout << *\n\tPress enter to back to * + user + * record menu....* << endl;</pre>
      cin.get();
      record(user);
else if (T_record == 2)
   char cont;
      char back = C.deleteData(user);
      if (back == '0' || back == 'q')
         record(user);
      else if (back == 'T' || back == 't')
         back = C.deleteData(user);
      cout < "\n\nDo you want to delete other " + user + "? (Y/N):";
      cin >> cont;
   } while (cont == 'y' || cont == 'Y');
   cout << *\n\tPress enter to back to * + user + * record menu.....* << endl;</pre>
   cin.get();
   record(user);
```

#### Error Handling

# CONCLUSION

In conclusion, the Company Events Registration Management
System is a user-friendly system that is programmed for people
to simplify managing the process of registering company events.
This system can reduce time taken on collecting data of events
and information of staffs. Hence, Admin and tutor can oversee
details of company events and list of staffs easily to make an
accurate arrangement.



