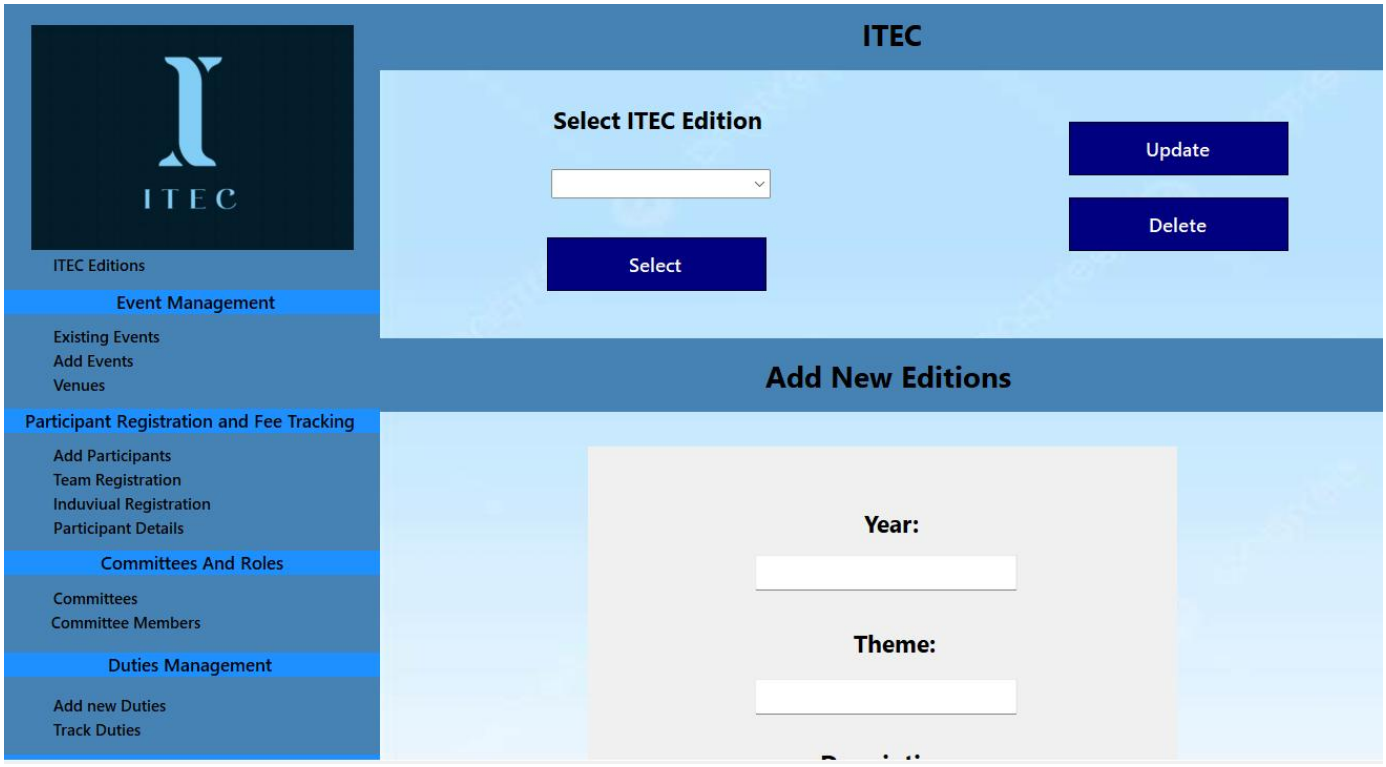
Student Details

Repository Name	DBS25P020
Registration Number	2024-CS-20

Project	
Project Title	ITEC Event Management System
Executive Summary	The ITEC Event Management System is a desktop-based software system which is designed to digitize the entire process of Event Management (ITEC), an annual event hosted by the Department of Computer Science at UET Lahore. The event consists of multiple activities, including competitions, exhibitions, seminars, and non-technical events, all managed by faculty members and student committees. Currently, the event is managed manually which leads to inconsistencies, errors and data security issues. To maintain Consistent data and allow users to interact easly it is needed to automatize and digitize the entire process. This system can do this task. The system will provide a centralized platform to handle various aspects of event planning, such as participant registration, committee management, financial tracking, scheduling, and reporting. It will allow faculty and student organizers to efficiently manage responsibilities, track participant payments, and allocate venues without conflicts. The project also includes automated reporting to generate essential reports for participant registrations, financial transactions, committee assignments, and event results. One of the key features of the system is ITEC Editions Management, which enables administrators to manage different editions of ITEC (e.g., ITEC 2024, ITEC 2025), ensuring that all events, participants, and financial records are linked to a specific year. Additionally, the system will support multiple event types, including technical competitions, exhibitions, seminars, and non-tech activities, with a structured approach for event scheduling and committee assignments. For participant management, the system will allow individuals to

	register as students, professionals, guest speakers, or judges, track individual or team-based registrations, and monitor payment status (Paid, Pending, Canceled). To manage event organization, the system will facilitate committee formation, enabling the assignment of faculty advisors, student leads, and volunteers to specific responsibilities such as logistics, marketing, sponsorship, and technical support. Financial management is another critical aspect, where the system will track sponsorships, ticket sales, registration fees, and expenses. This will help in budget planning and financial reporting, ensuring transparency in fund utilization. The system will provide venue allocation management to prevent scheduling conflicts for different event venues such as auditoriums, classrooms, and open areas.

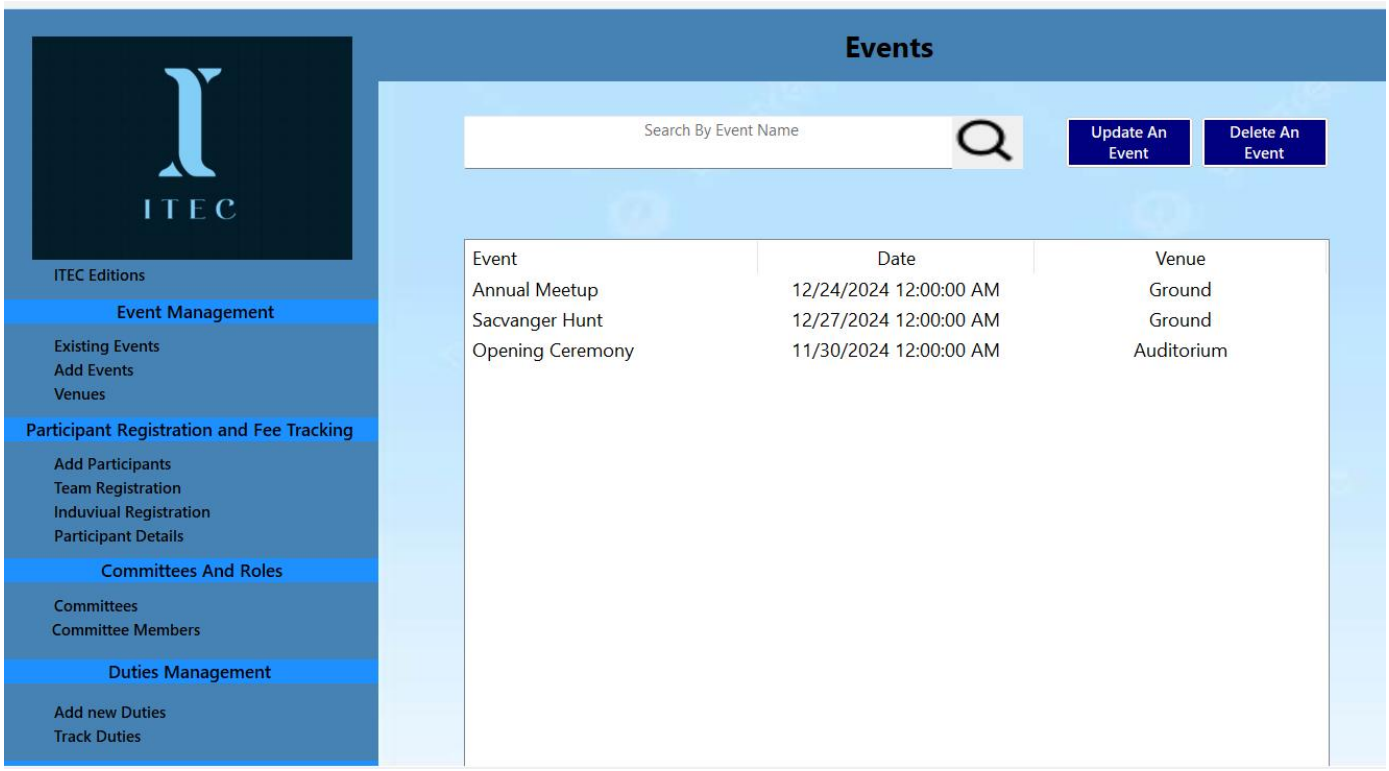
Interface Name	ITEC Editions



UI Component Name	**Type of UI component**	**Class Attribute name, Classname, attribute name**	**Linked to which database column/table**
comboBox1	comboBox	ITECeditionBL,Year	ITEC_editions.Year

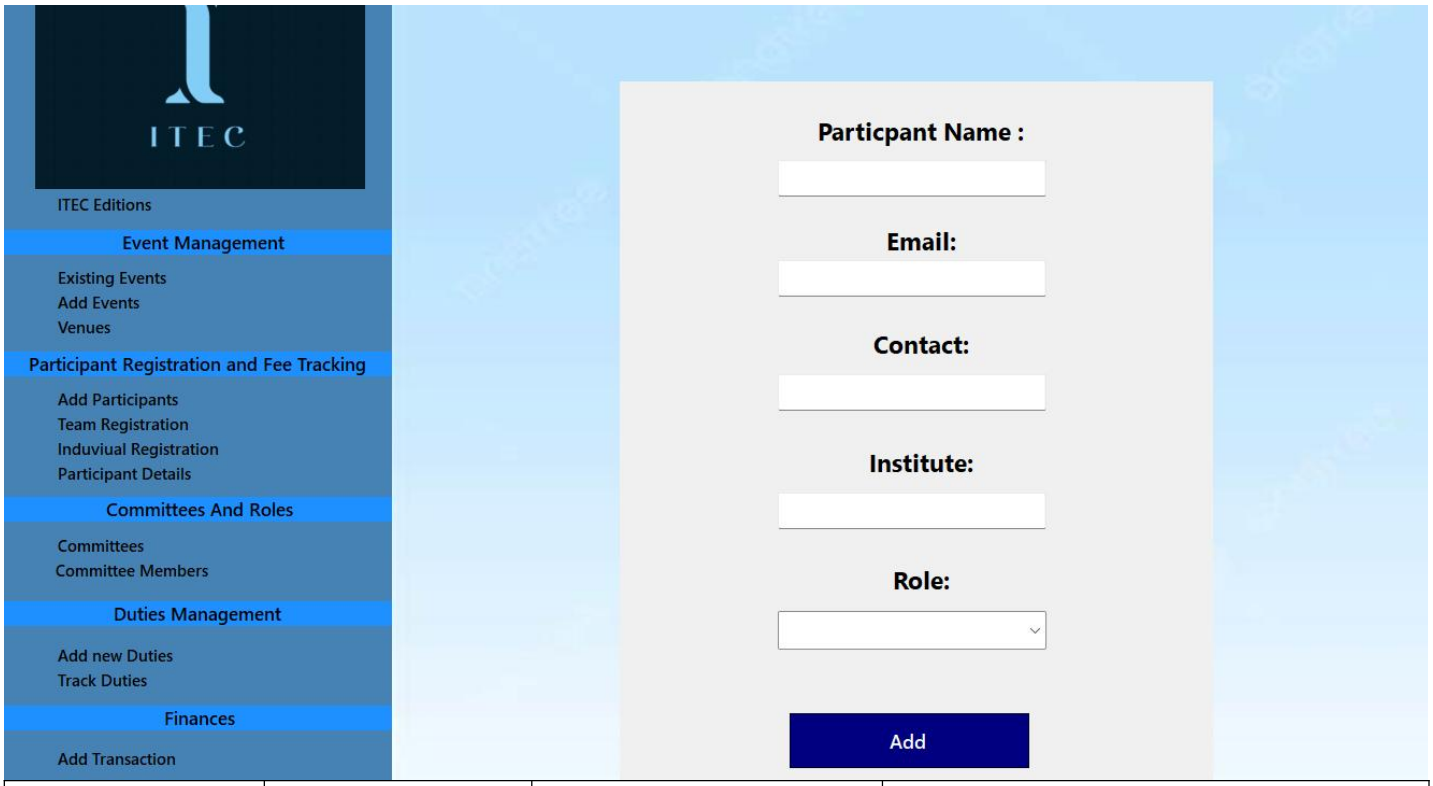
textBox1	textBox	ITECeditionBL,Year	ITEC_editions.year
textBox2	textBox	ITECeditionBL,theme	Itec_editions.theme
textBox3	textbox	ITECeditionBL,description	Itec_editions.description

Interface Name	Events



UI Component Name	**Type of UI component**	**Class Attribute name, Classname, attribute name**	**Linked to which database column/table**
textBox1	textBox	EventsBL, eventn	select event_name, event_date, venue_id from itec_events where itec_id={0} and event_name = '{1}'
ListView1	ListView	EventsBL,(eventn,date,venue)	select event_name, event_date, venue_name from itec_events i join venues v on i.venue_id=v.venue_id where itec_id={0}
UpdateButton	button	-	-
DeleteButton	button	-	-

Interface Name	Add Participants

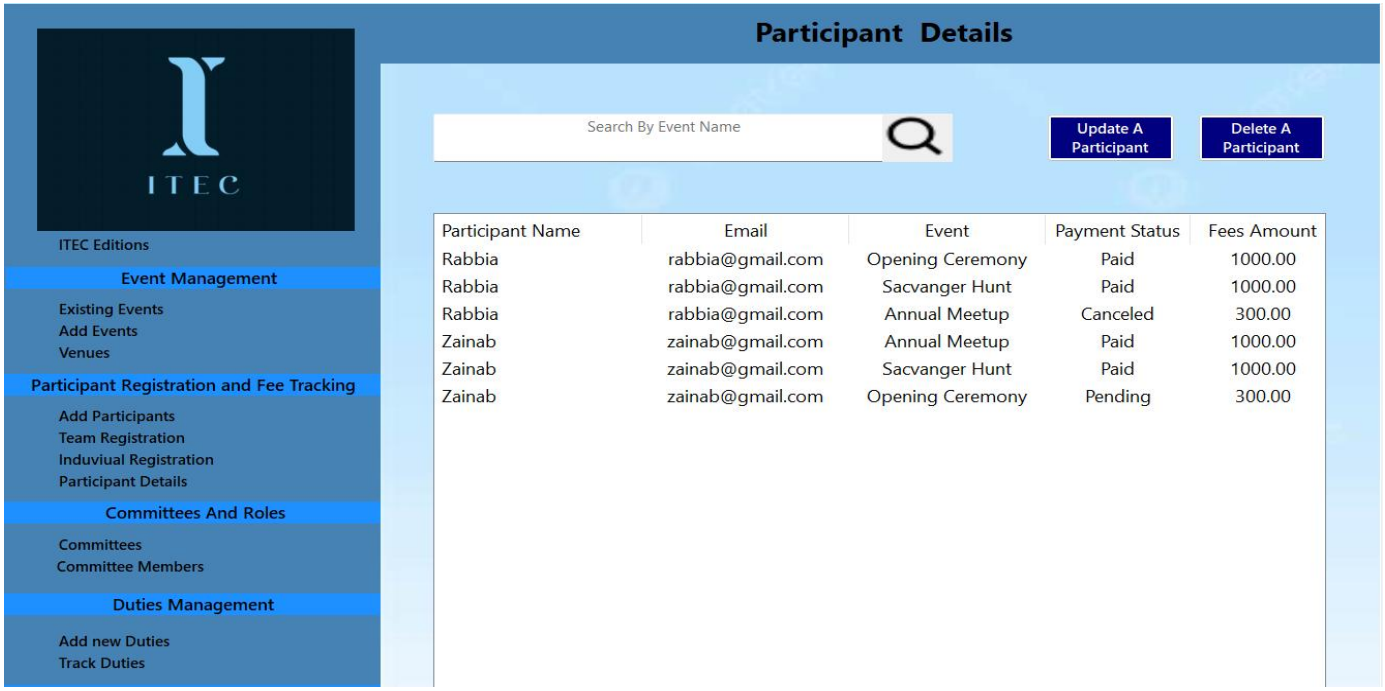


UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
name	textbox	Partcipants.cs,name	Participants.name
email	textbox	Partcipants.cs,email	Participants.email
contact	textbox	Partcipants.cs,contact	Participants.contact
instituite	textbox	Partcipants.cs,institue	Participants.institute
role	comboBox	Partcipants.cs,role	SELECT role_name from roles where role_id={0}

Interface Name	Venues

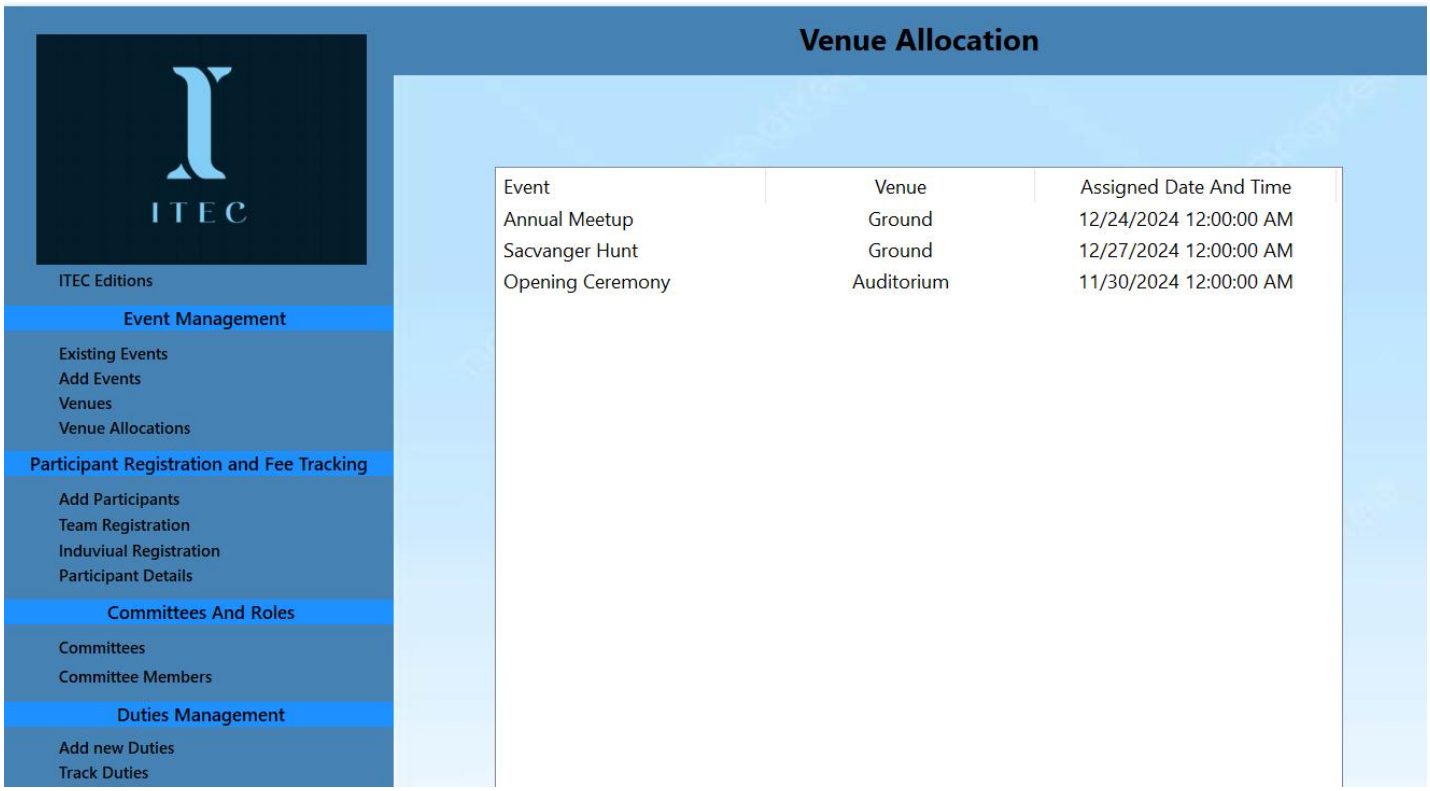
UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
ListView1	ListView	Venues.cs	select venue_name,capacity,location from venues
venue	textbox	venuesBl.cs, venue	Venues.venue_name
location	textbox	venuesBl.cs, location	Venues.location
capacity	textbox	venuesBl.cs, venue	Venues.capacity

Interface Name	Participant Details



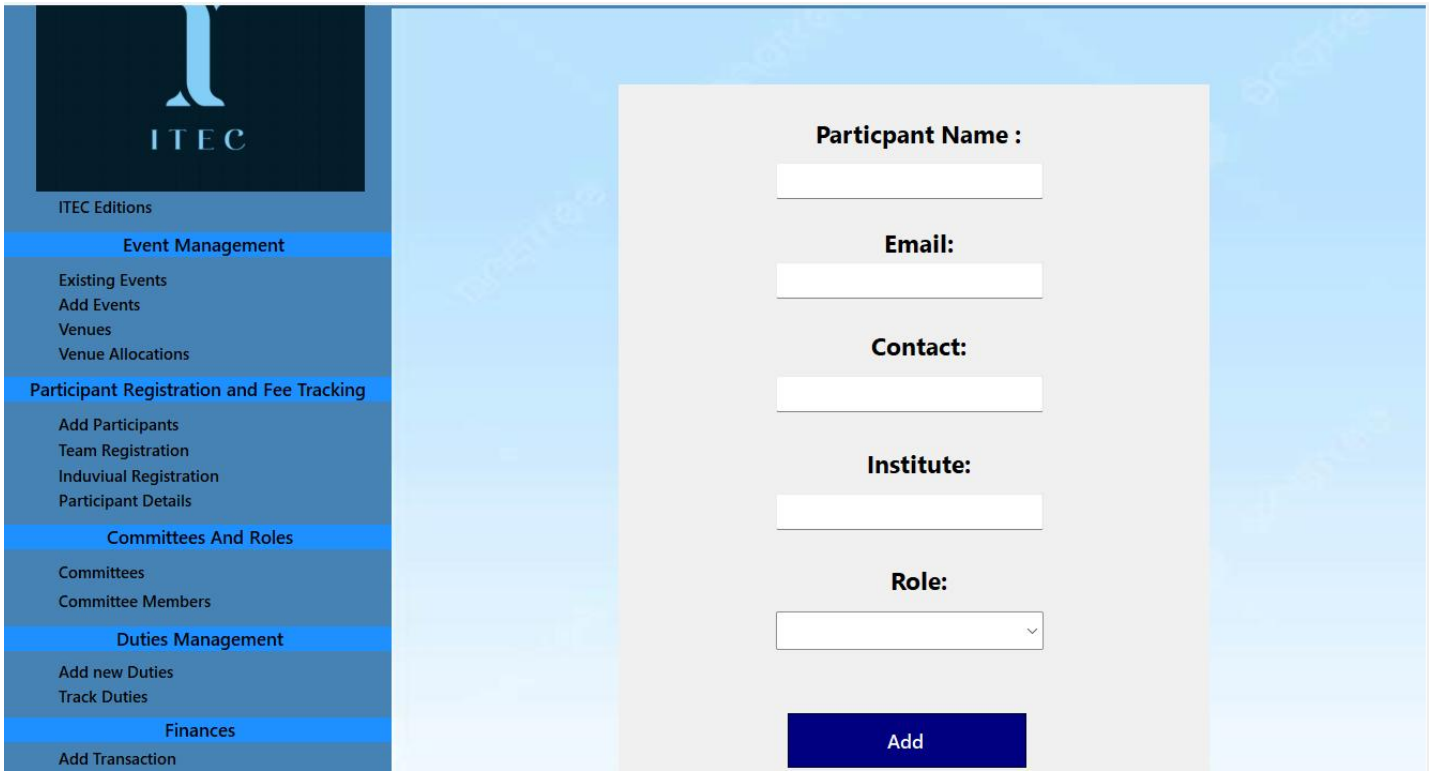
UI Component Name	**Type of UI component**	**Class Attribute name, Classname, attribute name**	**Linked to which database column/table**
textBox1	textBox	ParticipantsBL, eventn	select name, email, event_name, value , fee_amount from participants p join event_participants ep on p.participant_id=ep.participant_id join lookup l on l.lookup_id=ep.payment_status_id join itec_events ie on ie.event_id=ep.event_id where p.itec_id={0} and event_name='{1}'
ListView1	ListView	PartcipantsBL,(name,email,eventn,status,fees)	select name, email, event_name, value , fee_amount from participants p join event_participants ep on p.participant_id=ep.participant_id join lookup l on l.lookup_id=ep.payment_status_id join itec_events ie on ie.event_id=ep.event_id where p.itec_id={0}
UpdateButton	button	-	-
DeleteButton	button	-	-

Interface Name	Venue Allocation



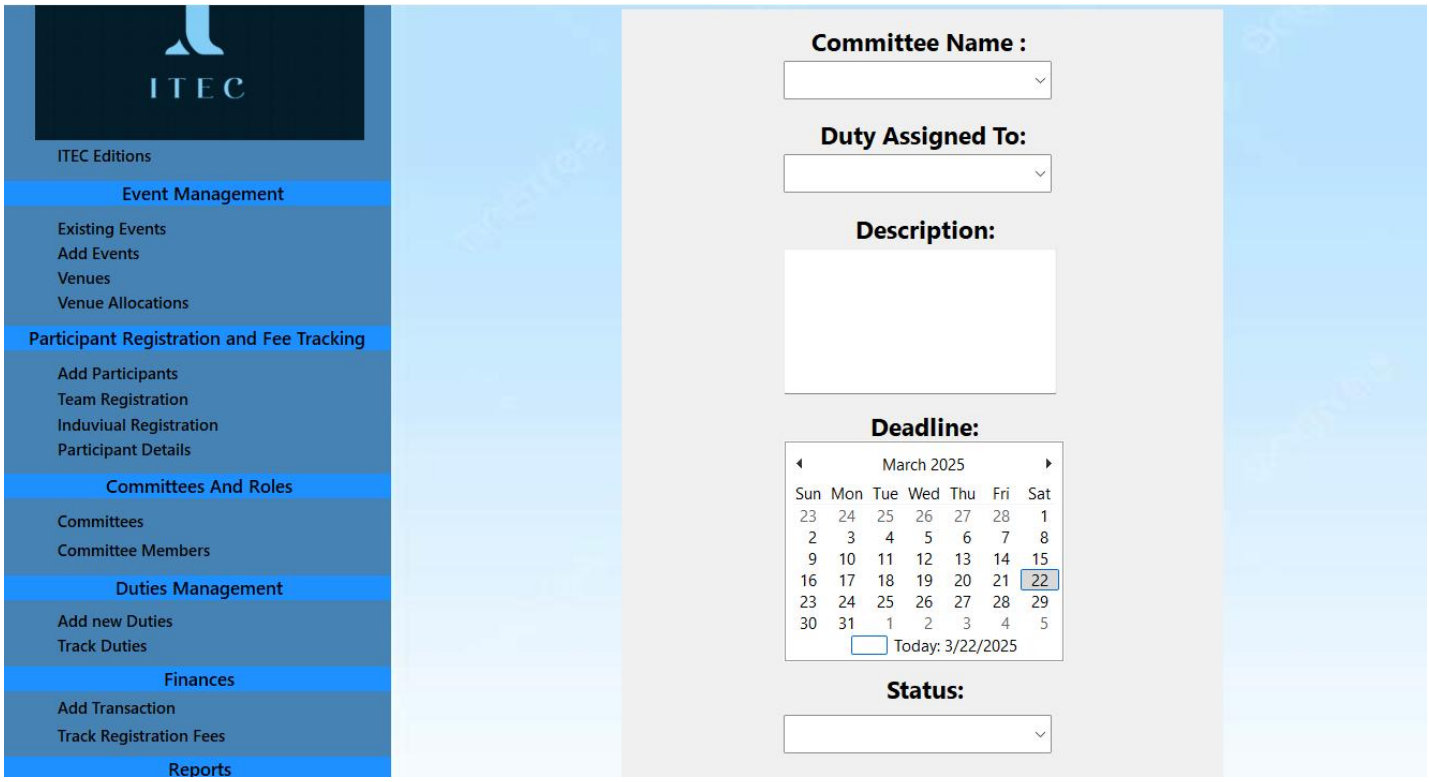
UI Component Name	**Type of UI component**	**Class Attribute name, Classname, attribute name**	**Linked to which database column/table**
ListView 1	Listview	Venue, Events	select event_name, venue_name ,assigned_date from venue_allocations v join itec_events i on i.event_id=v.event_id join venues s on s.venue_id=v.venue_id join itec_editions ie on i.itec_id=ie.itec_id where year={0}

Interface Name	Add Participants



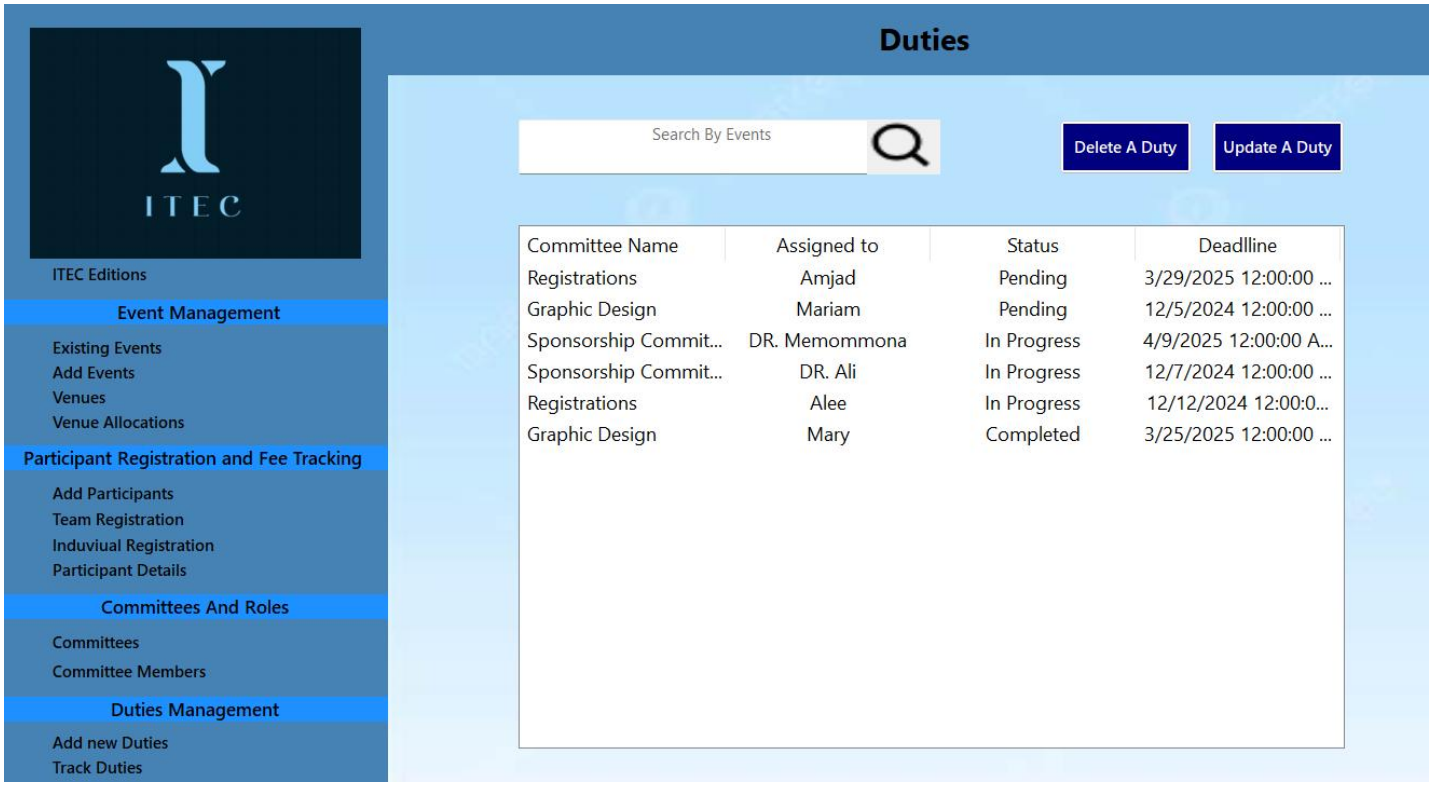
UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
TextBoxParticipant	TextBox	ParticipantsBl(name)	Participants.name
Email	Textbox	ParticipantsBL(email)	Participants.email
contact	TextBox	ParticipantsBl(contact)	Participants.Contact
institue	TextBox	ParticipantsBl(institute)	Particcipants.institute
role	Combobox	ParticipantsBl(role)	Select role_id from roles where role_name='{5}'

Interface Name	Add Duties



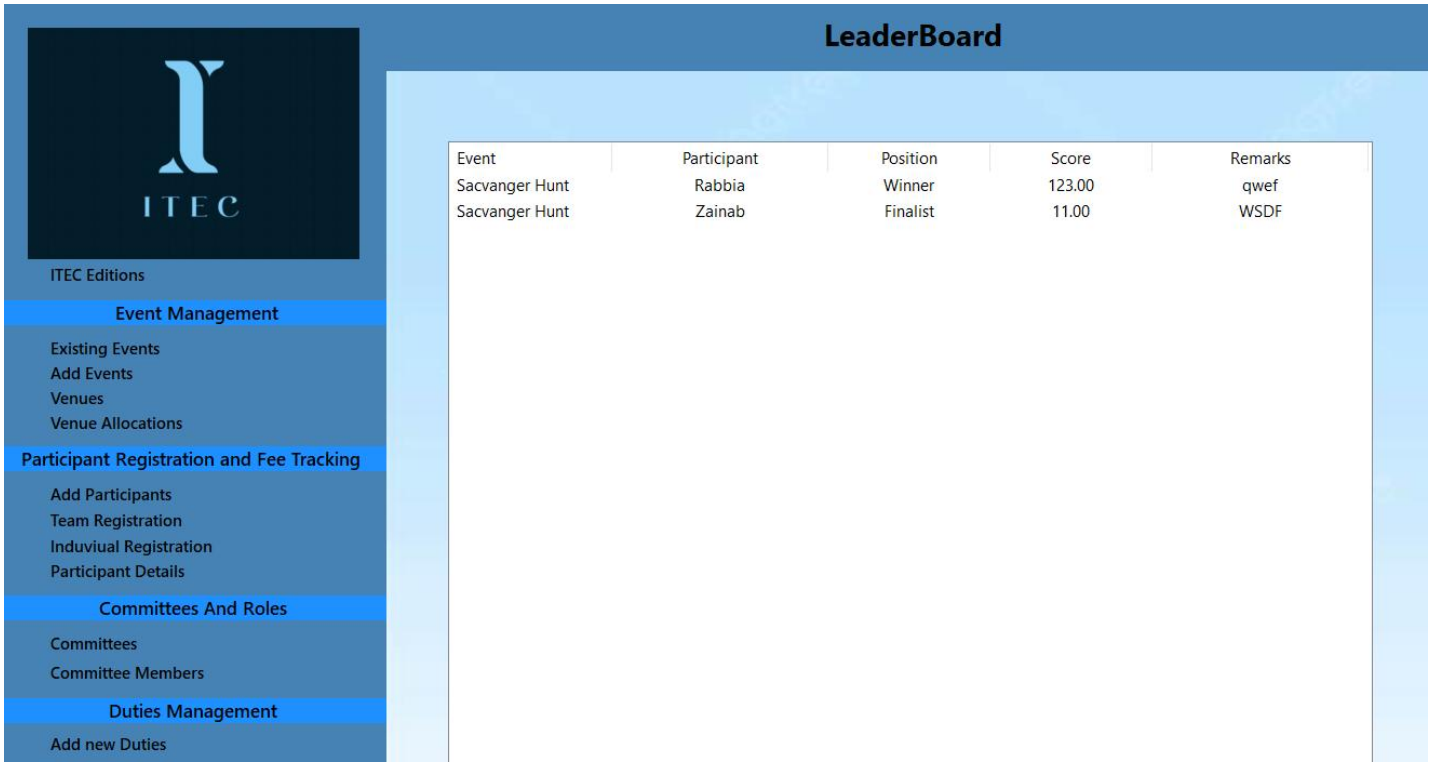
UI Component Name	**Type of UI component**	**Class Attribute name, Classname, attribute name**	**Linked to which database column/table**
Name	ComboBox	Duties.name	select committee_id from committees where committee_name='{0}'
to	ComboBox	Duties.asssignedTO	Committee_members.name
Desc	textbox	Duties.description	Committee_members.description
Deadline	MonthCalender	Duties.deadline	Committee_members.deadline
Status	ComboBox	Duties.status	select committee_id from committees where committee_name='{0}'),'{1}','{2}' ,'{3}',(select lookup_id from lookup where value='{4}' AND category='DutyStatus'

Interface Name	Duties



UI Component Name	**Type of UI component**	**Class Attribute name, Classname, attribute name**	**Linked to which database column/table**
ListView1	ListView	PartcipantsBL,(name,email,eventn,status,fees)	select committee_name, assigned_to, task_description, deadline, value from duties d join committees c on d.committee_id=c.committee_id join lookup l on l.lookup_id=d.status_id";

Interface Name	LeaderBoard



UI Component Name	**Type of UI component**	**Class Attribute name, Classname, attribute name**	**Linked to which database column/table**
ViewLeaderboard	ListView	Results.cs	select event_name, name ,value ,score , remarks from event_results r join itec_events e on e.event_id=r.event_id join itec_editions ie on ie.itec_id=e.itec_id join participants p on r.participant_id=p.participant_id join lookup l on l.lookup_id=r.position where year={0} order by event_name ASC, FIELD(Position, 'Winner', 'Runner-up', 'Finalist', 'Participant')

Business Report-1	

Business Report Name: Participants Reports

Sample of report:

Participant	Event	Payment	Role
Rabbia	Opening Ceremony	Paid	Student
Rabbia	Sacvanger Hunt	Paid	Student
Rabbia	Annual Meetup	Canceled	Student
Zainab	Annual Meetup	Paid	Student
Zainab	Sacvanger Hunt	Paid	Student
Zainab	Opening Ceremony	Pending	Student

Query to build Report:

```
select name, event_name, value, role_name
from event_participants ep
join participants p on p.participant_id=ep.participant_id
join itec_events i on i.event_id=ep.event_id
join lookup l on l.lookup_id=ep.payment_status_id
join roles r on r.role_id=p.role_id
join itec_editions ie on i.itec_id=ie.itec_id
```

where year={0}

Business Report-2	
Business Report Name: Venue Allocations	
Sample of report:	

Participant	Event	Payment	Role
Rabbia	Opening Ceremony	Paid	Student
Rabbia	Sacvanger Hunt	Paid	Student
Rabbia	Annual Meetup	Canceled	Student
Zainab	Annual Meetup	Paid	Student
Zainab	Sacvanger Hunt	Paid	Student
Zainab	Opening Ceremony	Pending	Student

Query to build Report:

```
select event_name, venue_name  ,assigned_date
from venue_allocations v
join itec_events i on i.event_id=v.event_id
join venues s on s.venue_id=v.venue_id
join itec_editions ie on i.itec_id=ie.itec_id
where year={0}
```

Business Report-3	

Business Report Name: Event Schedule Reports

Sample of report:

Event	Category	Description	Event Date	Venue	Committee
Opening Ceremony	Seminar	Opening ceremony	11/30/2024 12:00:00 AM	Auditorium	Opening And Closing Committee
Annual Meetup	Non-Tech	Annual Meetup of Department	12/24/2024 12:00:00 AM	Ground	Opening And Closing Committee
Sacvanger Hunt	Non-Tech	Sacvanger Hunt	12/27/2024 12:00:00 AM	Ground	Sponsorship Committee

Query to build Report:

```
select event_name, category_name, e.description, event_date, venue_name,
committee_name
from itec_events e
join event_categories ec on e.event_category_id=ec.event_category_id
join venues v on v.venue_id=e.venue_id
join committees c on e.committee_id=c.committee_id
join itec_editions ie on e.itec_id=ie.itec_id
where year={0}
```

Business Report-4	

Business Report Name: Committee Assignment Reports

Sample of report:

Committee Name	Assigned To	Task Description	Deadline	Value
Registrations	Amjad	Volunteer	3/29/2025 12:00:00 AM	Pending
Registrations	Alee	Student Lead Rpresenatative of Rgistrations Committee	12/12/2024 12:00:00 AM	In Progress
Sponsorship Committee	DR. Memommona	Faculty Advisor of Committee	4/9/2025 12:00:00 AM	In Progress
Sponsorship Committee	DR. Ali	Faculty Advisor of Sponsorship Committee	12/7/2024 12:00:00 AM	Completed
Graphic Design	Mary	Volunteer	3/25/2025 12:00:00 AM	Completed
Graphic Design	Mariam	Student Lead Rpresenatative of Graphic Design Committee	12/5/2024 12:00:00 AM	Pending

Query to build Report::

```
select committee_name, assigned_to, task_description, deadline, value
from duties d
join committees c on c.committee_id=d.committee_id
join lookup l on l.lookup_id=d.status_id
```

Business Report-5	

Business Report Name: Financial Reports

Sample of report:

Event	Finance Type	Amount	From	To	Description	Date and Time
Opening Ceremony	Ticket Sales	300.00	User	Committee	Opening ceremony	3/21/2025 7:14:05 AM
Annual Meetup	Ticket Sales	1000.00	User	Committee	Annual Meetup of Department	3/21/2025 7:14:37 AM
Opening Ceremony	Ticket Sales	300.00	User	Committee	Opening ceremony	3/21/2025 7:15:33 AM
Annual Meetup	Ticket Sales	300.00	User	Committee	Annual Meetup of Department	3/21/2025 7:15:49 AM

Query to build Report:

```
select event_name,value,amount,from_entity_type, to_entity_type, e.description, date_recorded

from finances f

join itec_events e on f.event_id=e.event_id

join lookup l on l.lookup_id=f.type_id

join itec_editions ie on f.itec_id = ie.itec_id

where year={0}
```