



CSC104-Database Systems Mid Project Report(Spring 2025)




Student Details

Repository Name	DBS25P020
Registration Number	2024-CS-20

Project	
Project Title	ITEC Event Management System
Executive Summary	<p>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 easily it is needed to automatize and digitize the entire process. This system can do this task.</p> <p>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.</p> <p>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.</p> <p>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</p>

	<p>specific responsibilities such as logistics, marketing, sponsorship, and technical support. Each committee member will have clearly defined roles and assigned tasks, with status tracking for task completion.</p> <p>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. Additionally, the system will provide venue allocation management to prevent scheduling conflicts for different event venues such as auditoriums, classrooms, and open areas.</p> <p>Finally, the system will include an Event Results Management module to record competition results, scores, and rankings, ensuring a smooth announcement of winners. The Automated Report Generation feature will allow administrators to generate participant reports, committee assignment reports, financial summaries, and event performance reports.</p>
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Interface Name	ITEC Editions
<div><div><div><p>ITEC Editions</p></div><div>Event Management<ul style="list-style-type: none">Existing EventsAdd EventsVenues</div><div>Participant Registration and Fee Tracking<ul style="list-style-type: none">Add ParticipantsTeam RegistrationIndividual RegistrationParticipant Details</div><div>Committees And Roles<ul style="list-style-type: none">CommitteesCommittee Members</div><div>Duties Management<ul style="list-style-type: none">Add new DutiesTrack Duties</div></div><div><div><div>ITEC</div><div><div>Select ITEC Edition</div><div><input type="text"/></div><div>Select</div></div><div><div>Update</div><div>Delete</div></div></div><div><div>Add New Editions</div><div><div>Year:</div><div><input type="text"/></div></div><div><div>Theme:</div><div><input type="text"/></div></div></div></div></div>	

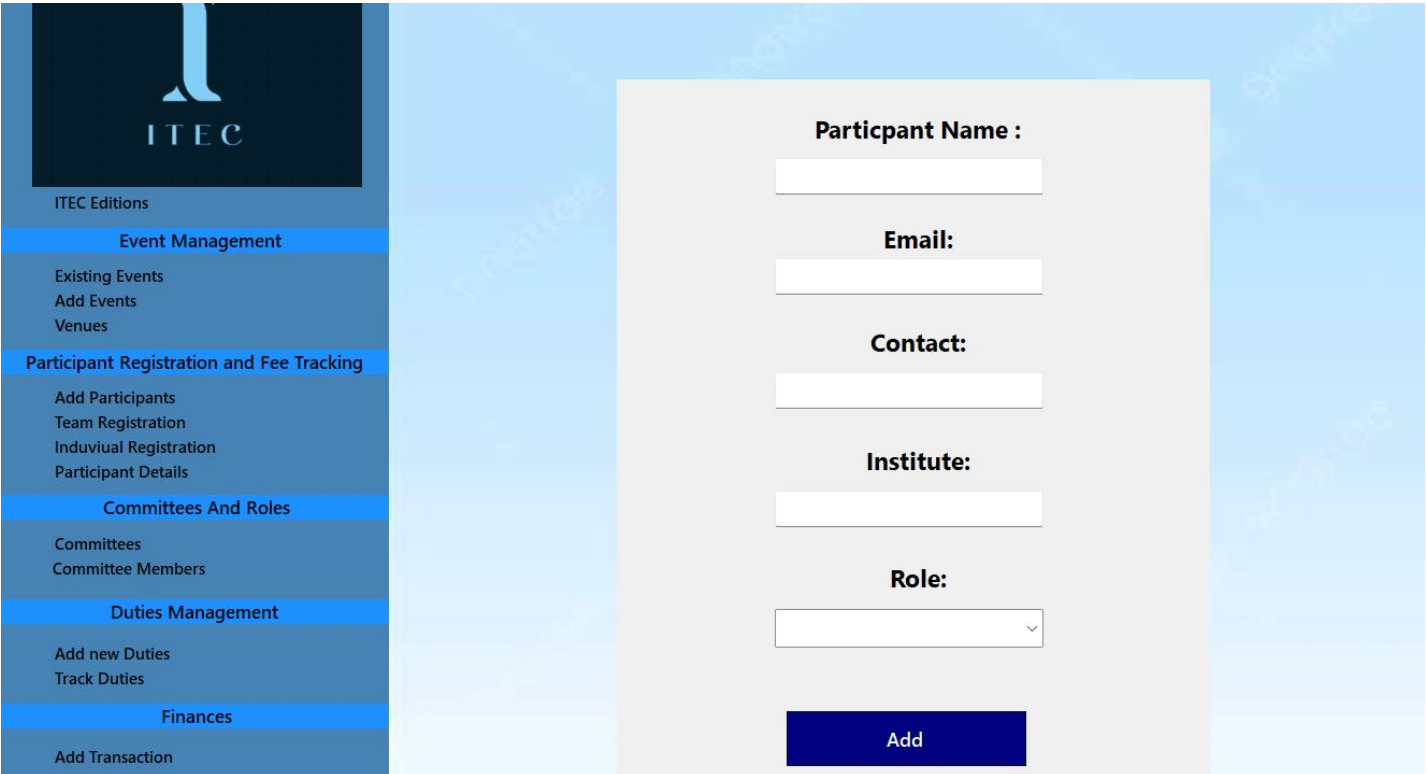
UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
comboBox1	comboBox	ITECeditionBL,Year	ITEC_editions.Year
textBox1	textBox	ITECeditionBL,Year	ITEC_editions.year
textBox2	textBox	ITECeditionBL,theme	Itec_editions.theme
textBox3	textbox	ITECeditionBL,description	Itec_editions.description

Interface Name

Events

Event	Date	Venue
Annual Meetup	12/24/2024 12:00:00 AM	Ground
Sacvanger Hunt	12/27/2024 12:00:00 AM	Ground
Opening Ceremony	11/30/2024 12:00:00 AM	Auditorium

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	Participants.cs,name	Participants.name
email	textbox	Participants.cs,email	Participants.email
contact	textbox	Participants.cs,contact	Participants.contact
institute	textbox	Participants.cs,institute	Participants.institute
role	comboBox	Participants.cs,role	SELECT role_name from roles where role_id={0}

Venues



ITEC Editions

Event Management

Existing Events

Add Events

Venues

Participant Registration and Fee Tracking

Add Participants

Team Registration

Individual Registration

Participant Details

Committees And Roles

Committees

Committee Members

Duties Management

Add new Duties

Track Duties

Name	Capacity	Location
Ground	300	UET
Auditorium	500	UET
seminar Hall	350	UET
Lab 1	50	UET CS Department
Lab 4	50	UET CS Department

Add Venues

Venue :

Capacity:

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

Participant Details



ITEC Editions

Event Management

Existing Events

Add Events

Venues

Participant Registration and Fee Tracking

Add Participants

Team Registration

Individual Registration

Participant Details

Committees And Roles

Committees

Committee Members

Duties Management

Add new Duties

Track Duties

Search By Event Name

Update A
ParticipantDelete A
Participant

Participant Name	Email	Event	Payment Status	Fees Amount
Rabbia	rabbia@gmail.com	Opening Ceremony	Paid	1000.00
Rabbia	rabbia@gmail.com	Sacvanger Hunt	Paid	1000.00
Rabbia	rabbia@gmail.com	Annual Meetup	Canceled	300.00
Zainab	zainab@gmail.com	Annual Meetup	Paid	1000.00
Zainab	zainab@gmail.com	Sacvanger Hunt	Paid	1000.00
Zainab	zainab@gmail.com	Opening Ceremony	Pending	300.00

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	ParticipantsBL,(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	-	-

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 Representative of Registrations 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 Representative 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-2

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}
```