

Student Details

Repository Name	DBS25P116
Registration Number	2024_CS_116

Project	
Project Title	Itec Event Management System
Executive Summary	<p>ITEC Event Management System – User Role Summary</p> <p>The ITEC Event Management System is a desktop-based Windows Forms Application using C# and MySQL, designed to digitize and automate event planning for the Information Technology Exhibition and Competition (ITEC). The system addresses challenges like manual data management, financial tracking, committee assignments, scheduling and conflicts. The system includes four primary user roles: Admin, Student, Faculty, and Sponsor, each with specific functionalities.</p> <p>1. Admin Role – System & Event Manager</p> <p>The Admin is responsible for managing the entire event, ensuring smooth operations through structured event planning, participant tracking, financial management, and reporting.</p> <p>Key Responsibilities:</p> <ul style="list-style-type: none">• ITEC Edition Management: Create and manage multiple event editions (e.g., ITEC 2024, ITEC 2025).• Event Management: Add, update, and schedule competitions, exhibitions, and seminars.• Participant Registration: Manage student, professional, guest speaker, and judge registrations. Track their payment status.• Committee Management: Organize committees and generate report .• Duty Assignments: Assign and track responsibilities for faculty and students.• Financial Management: Track sponsorships, ticket sales, expenses, and generate budget reports.• Venue Allocation: Prevent scheduling conflicts for event venues. Add, update and remove venue.

- **Event Results Management:** Record and display competition results and rankings.
- **Automated Reports:** Generate reports on participants, finances, and event schedules.

2. Student Role – Event Participant & Volunteer

The **Student** can participate in events and join organizing committees.

Key Responsibilities:

- **Event Registration:** Register as a participant for multiple competitions, exhibitions, or non-tech events.
- **Fee Tracking:** Complete event registration payments.
- **Committee Membership:** Join organizing committees (Logistics, Technical, Marketing, etc.).
- **Competition Results:** Check rankings and scores for events they participated in.

3. Faculty Role – Organizer, Mentor & Judge

The **Faculty** members serve as event supervisors, mentors, and competition judges.

Key Responsibilities:

- **Committee Supervision:** Guide student committees in event organization, and members to committee.
- **Judging & Evaluation:** Score and rank competition participants.
- **Report Generation:** Contribute to committee and event performance reports.

4. Sponsor Role – Financial Contributor & Partner

The **Sponsor** provides financial support and branding for events.

Key Responsibilities:

SignIn

UserName

Password

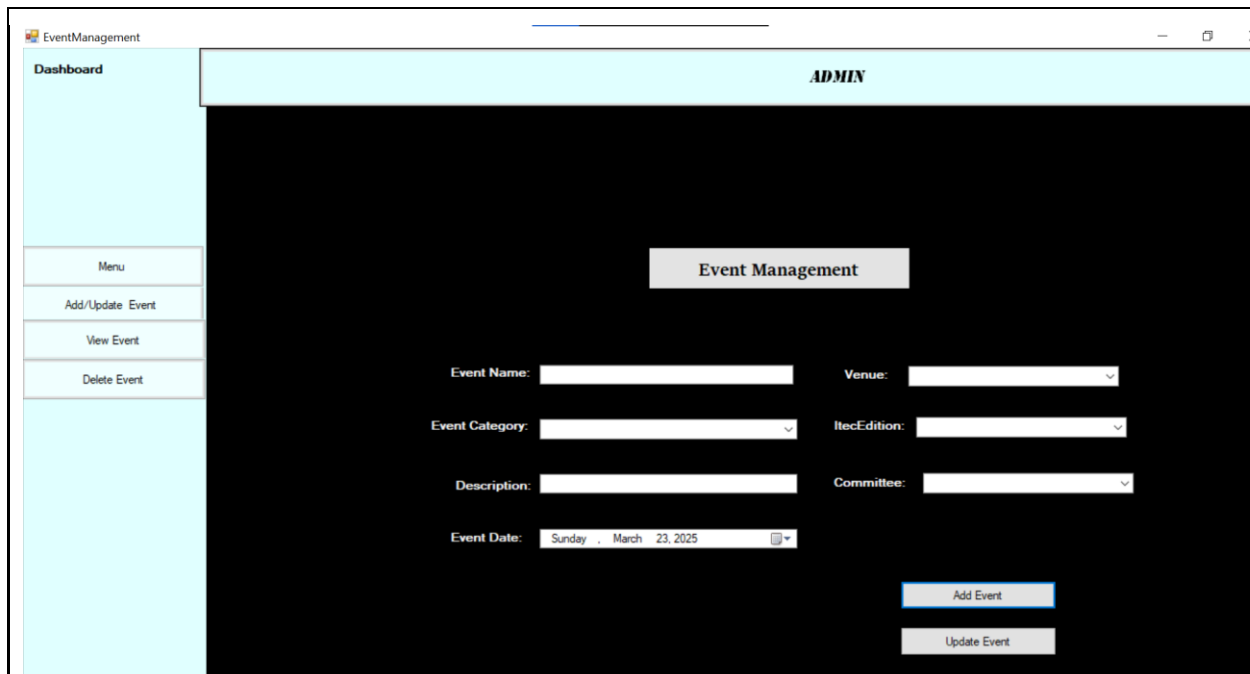
SignIn

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Username	Textbox	SignInCRUD.username	users.username
Password	Textbox	SignInCRUD.password	users.password_hash
SignIn	button	SignIn.LogIn()	users, roles

Interface Name :	Admin Interface
Picture	

<div> <div>Form2</div> <div>ADMIN</div> <div> <div>ITEC EDITION</div> <div>DUTY ASSIGNMENT TRACKING</div> <div>PARTICIPANT</div> <div>COMMITTEE ROLE</div> <div>EVENT MANAGEMENT</div> <div>FINANCIAL MANAGEMENT</div> <div>VENUE ALLOCATION</div> <div>EVENT RESULTS</div> </div> </div>			
UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Itec Edition	Buttons	ItecEdition_CRUD_	itec_editions
Duty Assignment Tracking	Buttons	DutiesCRUD	duties
Participant	Buttons	TrackParticipation()	participants
Committee Role	Buttons	CommitteeCRUD	committees
Event Management	Buttons	View, EventCRUD	itec_events
Financial Management	Buttons	FinancesCRUD, View	finances
Venue Allocation	Buttons	AllocationCRUD, VenueCRUD	venues, venue_allocations
Event Result	Buttons	TeamParticipationCRUD	event_results

Interface Name : Add/ Update Event	
Picture	



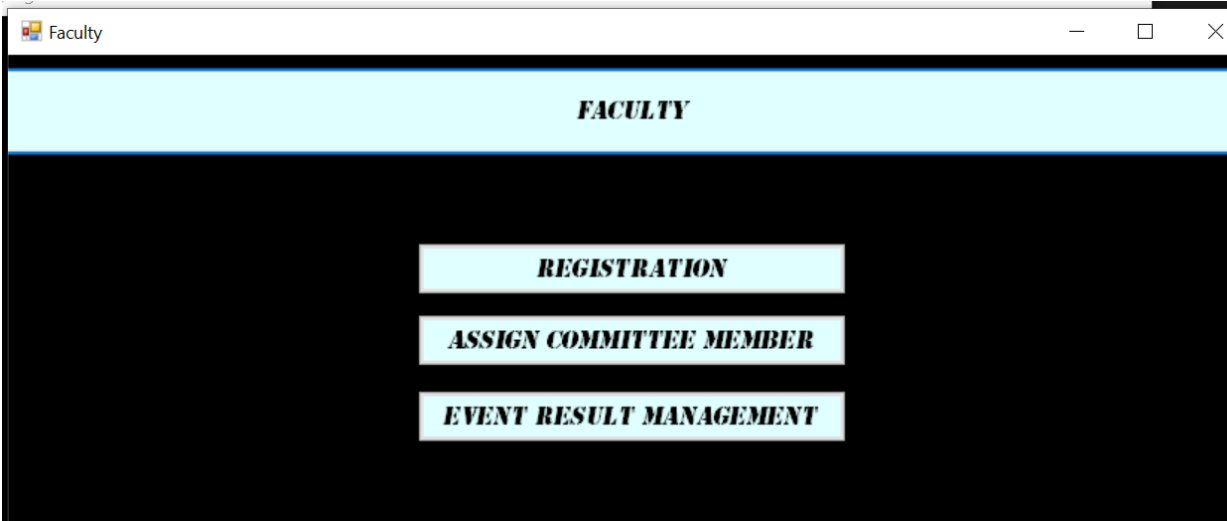
UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Event Name	Textbox	EventCRUD.eventName	itec_events .event_name
Event Category	comboBox	EventCRUD.category	itec_events .event_category_id
Description	Textbox	EventCRUD.discription	itec_events .description
Event Date	dateTimePicker	EventCRUD.date	itec_events .event_date
Venue	ComboBox	EventCRUD.venue	itec_events .venue_id
itecEdition	comboBox	EventCRUD.itec	itec_events .itec_id
Committee	ComboBox	EventCRUD.committee	itec_events .committee_id
Add Event	Button	EventCRUD.addEvent()	itec_events
Update Event	Button	EventCRUD.Update()	itec_events
Menu	Button	Form2	
View Event	Button	View	
Delete Event	button	EventCRUD.RemoveEvents()	itec_events

Interface Name	Student Interface
Picture	

<div><div>Student</div><div><div>STUDENT</div><div>REGISTRATION</div><div>COMMITTEE MEMBER</div><div>EVENT RESULTS</div></div></div>			
UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Registration	Buttons	ParticipationCRUD, IndividualCRUD, TeamParticipationCRUD	participants, event_participants, team_participants, teams
Committee_Member	Buttons	AssignCRUD	committee_members
Event_Results	Buttons	View	event_results

Interface Name	Sponsors
<div>Picture<div><div>Sponsor</div><div><div>SPONSORS</div><div>Sponsor</div><div>Vendor</div><div>Finances</div></div></div></div>	

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Sponsors	Buttons	CRUDsp	sponsors
Vendors	Buttons	vendors	vendors
Finances	Buttons	Finances	finances

Interface Name	Faculty		
Picture			
			
UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Registration	Button	AddReg	participants , event_participants , teams, team_participants
Assign committee member	Button	AssignCRUD	duties
Event result management	button	EventResult	event_results

Business Report-1**Business Report Name: Participant Report***Sample of report:***Participant Data**

Participant	Role	Event	Category
Sana	Student	Web Hackerthron	Competition
mahnoor	Student	Opening Ceremony	Seminar
Rehana	Guest Speaker	Opening Ceremony	Seminar
Maria	Judge	Opening Ceremony	Seminar
Sana	Student	Games	Non-Tech
Arham	Student	Games	Non-Tech

Query to build Report:

```
SELECT p.name AS Name,e.event_name AS Events,ec.category_name AS  
category,r.role_name AS Roles FROM participants p JOIN event_participants ep ON  
ep.participant_id = p.participant_id JOIN itec_events e ON e.event_id=ep.event_id JOIN  
event_categories ec ON ec.event_category_id=e.event_category_id JOIN roles r ON  
r.role_id=p.role_id
```

Business Report-2**Business Report Name: Committee**

Sample of report:

Company
Assignment

Assigned to	Committee Name	Roles	Task discription
Hamda	Innovation and Strategy	Faculty Advisor	Event Report

Query to build Report:

```
SELECT DISTINCT d.assigned_to AS Assigned_to,d.task_description AS Task_description,c.committee_name AS Committees, l.value AS Roles FROM duties d JOIN committees c ON c.committee_id=d.committee_id JOIN committee_members cm ON cm.committee_id=c.committee_id JOIN lookup l ON cm.role_id=l.lookup_id
```

Business Report-3

Business Report Name: Events

Sample of report:

Schedule Event

Event Name	Event Category	Assigned Committee	Venue
Web Hackerthron	Competition	Innovation and Strategy	LABS
Opening Ceremony	Seminar	Student Engagement	Auditorium
Games	Non-Tech	Student Engagement	Ground

Query to build Report:

```
SELECT e.event_name AS EventName,e.description AS Description,e.event_date AS Date,c.category_name AS Category,v.venue_name AS Venue,cm.committee_name AS Committee FROM itec_events e JOIN event_categories c ON c.event_category_id = e.event_category_id JOIN venues v ON v.venue_id=e.venue_id JOIN committees cm ON cm.committee_id=e.committee_id
```

Business Report-4

Business Report Name: Finances

Sample of report:

Income and Expenses

Event	type	amount
Opening Ceremony	SponsorshipIncome	10000.00

Query to build Report:

```
SELECT e.event_name AS EventName, SUM(f.amount) AS Amount, 'SponsorshipIncome' AS Type FROM finances f JOIN itec_events e ON f.event_id = e.event_id WHERE f.type_id = 22 GROUP BY e.event_name UNION ALL SELECT e.event_name AS EventName, SUM(f.amount) AS Amount, 'TicketSalesIncome' AS Type FROM finances f JOIN itec_events e ON f.event_id = e.event_id WHERE f.type_id = 23 GROUP BY e.event_name UNION ALL SELECT e.event_name AS EventName, SUM(f.amount) AS Amount, 'TotalExpenses' AS Type FROM finances f JOIN itec_events e ON f.event_id = e.event_id WHERE f.type_id = 24 GROUP BY e.event_name;\r\n
```