



CSC104-Database Systems Mid Project Report(Spring 2025)



Student Details

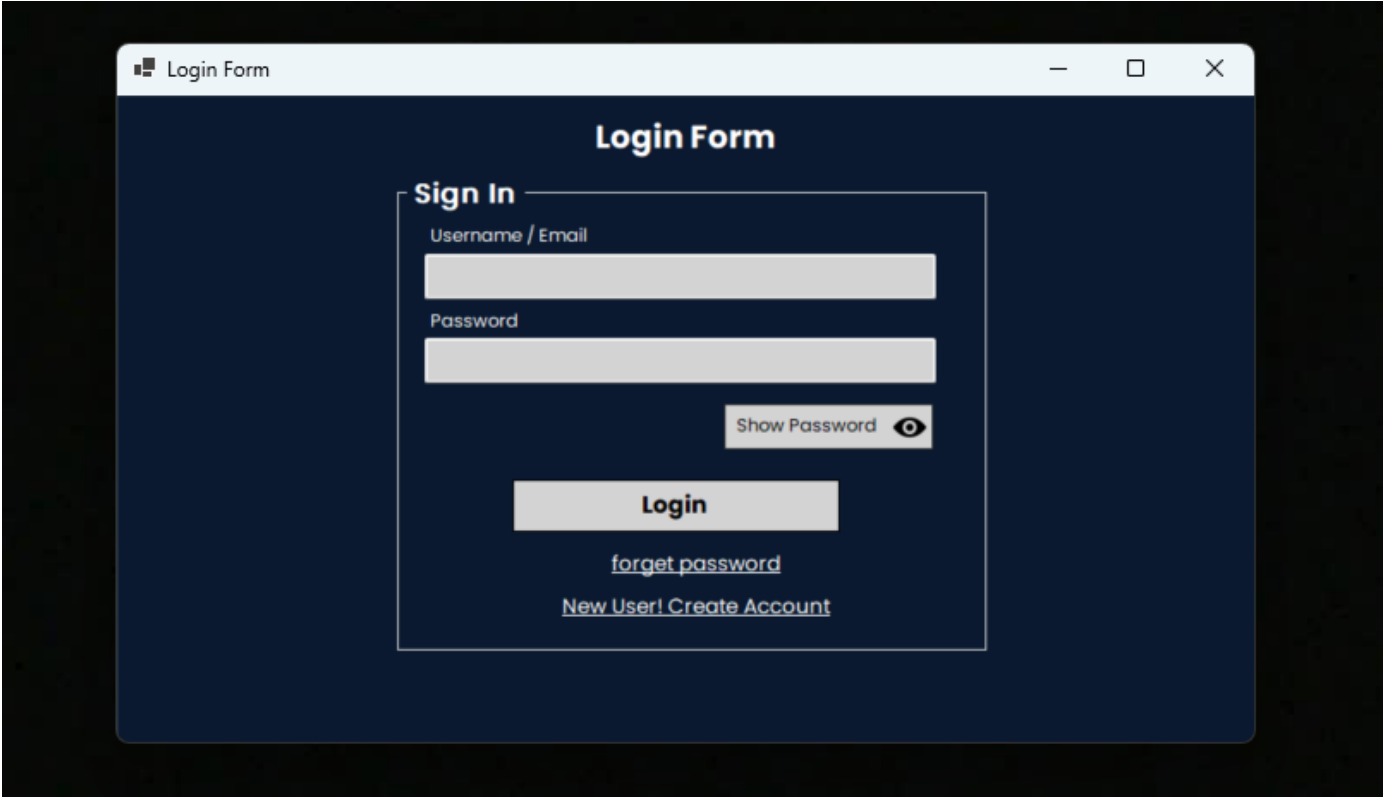
Repository Name	DBS25P156
Registration Number	2024-CS-156

Project	
Project Title	ITEC - Event Management System
Executive Summary	<p>The Itec Event Management System is a comprehensive platform designed to streamline the organization and execution of events. This system caters to event organizers by providing a centralized digital space for managing various aspects of event coordination, including participant registration, event scheduling, committee assignments, fee tracking, and venue management.</p> <p>The system follows a object oriented programming approach as well as a small portion with the procedural programming approach and is structured with multiple interconnected modules that work together to ensure smooth operations. It begins with a login page, where both normal users (app visitors) and admins access the system. While normal users can view event details, admins have the ability to manage data, including adding and editing event information, tracking finances, and generating reports. A key feature of the system is its participant registration process, which requires users to log in before completing registration.</p> <p>The event management process is broken down into various modules, each handling specific tasks such as:</p> <ol style="list-style-type: none">1. Event Management – Admins can create, edit, and view event details.2. Committee Management – Admins can assign roles and manage the event committees.3. Fee Tracking – The system allows the tracking of participant fees and financial data.4. Venue Management – Admins can manage event venues, ensuring that all logistics are handled. <p>The Itec Event Management System is designed to be simple yet effective, following procedural coding practices to meet the needs of event organizers. Its purpose is to enhance the efficiency of managing events and ensure that each stage of the event planning process runs smoothly, from registration to post-event reporting. The system ensures a clear, organized flow of tasks</p>

	while providing easy access to relevant information for both admins and participants.
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Interface Name	Login Form
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Picture



UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
GroupBox1	GroupBox		
TextBox3	TextBox	User session	Username/email - Users
TextBox2	TextBox	User session	Password – Users
Checkbox1	CheckBox		
Label5	Label		
Label2	Label		
Label1	Label		
ErrorProvider1	ErrorProvider		
ErrorProvider2	ErrorProvider		

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name	Sign Up
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The image shows a web application window titled "Sign Up Menu". Inside the window, there is a "Login Form" section. Within this section, there is a "Sign Up" sub-section. This sub-section contains four input fields: "Email", "Username", "Password", and "Role". The "Role" field is a dropdown menu. To the right of the "Role" dropdown is a "Show Password" button with an eye icon. Below these fields is a "Create Account" button and a "Back to Login" link.

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
EmailTextBox	TextBox	User	Email – Users
UsernameTextBox	TextBox	User	Username - Users
Password text box	TextBox	User	Password_hash – Users
Roll combo box.	Combo Box	User	Role_id - Users
Create button.	Button		
Back to login label.	Label		

In case of column, write column name and in case of multiple columns, write query in last column

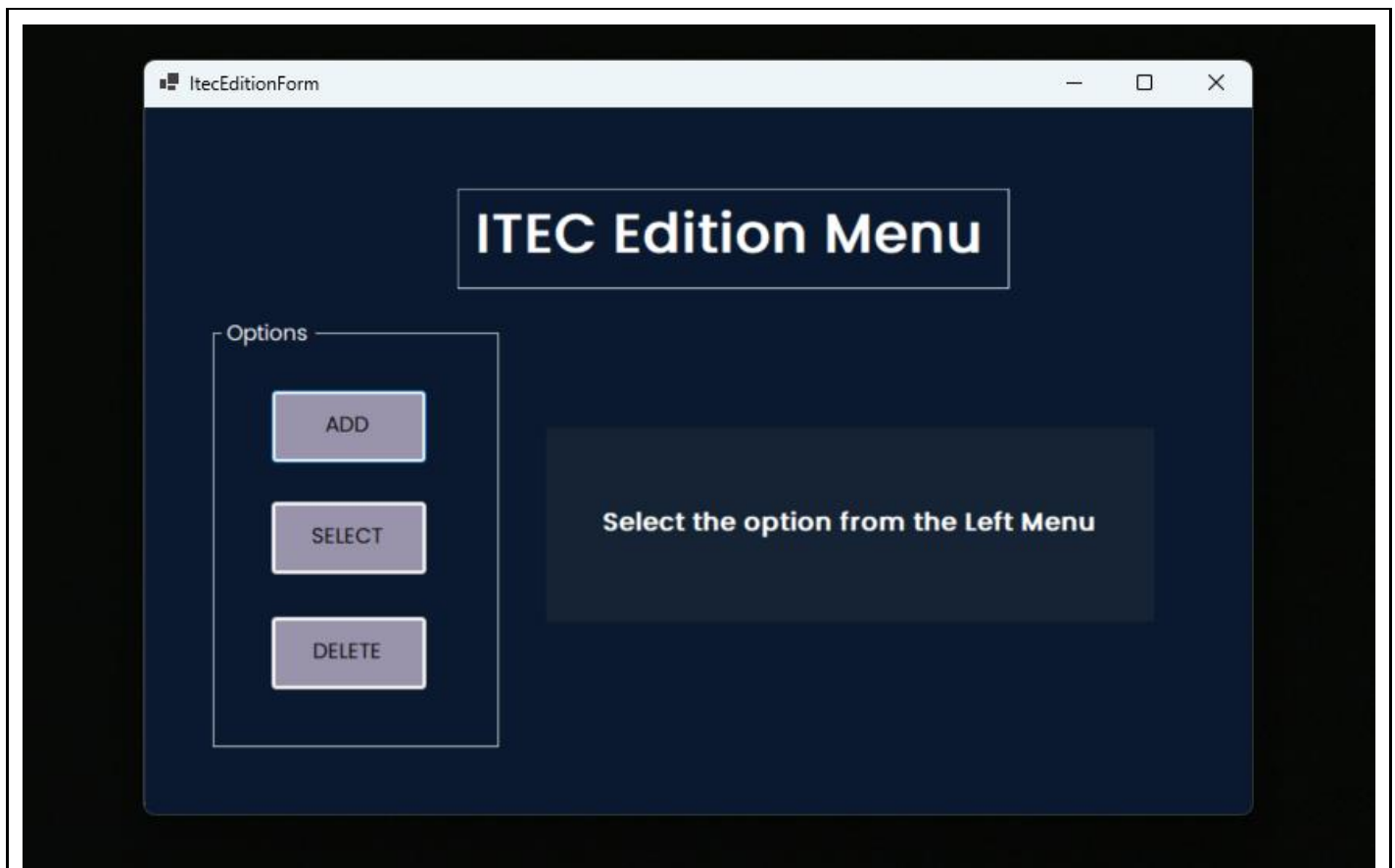
Interface Name	Forget Password
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The screenshot shows a web application window titled "Forget Password". Inside, there's a dark blue background with a white "Login Form" box. Within the login form, there's a "Recover Your Password" section. This section contains two text input fields: "Username / Email" and "Enter New Password". Below these fields are two buttons: "Reset" and "Show Password" (which includes an eye icon for toggling password visibility). At the bottom of the "Recover Your Password" section is a link that says "Back to Login".

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Username/Email textbox	Text box	User	Username/Email - users
Password textbox	Text box	User	Password_hash - users
Button 1	Button		
Back to login label	Label		

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name	Edition Form
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UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
GroupBox1	Groupbox		
Button1	Button		
Button2	Button		
Button3	Button		
Label1	Label		
Panel1	Panel		

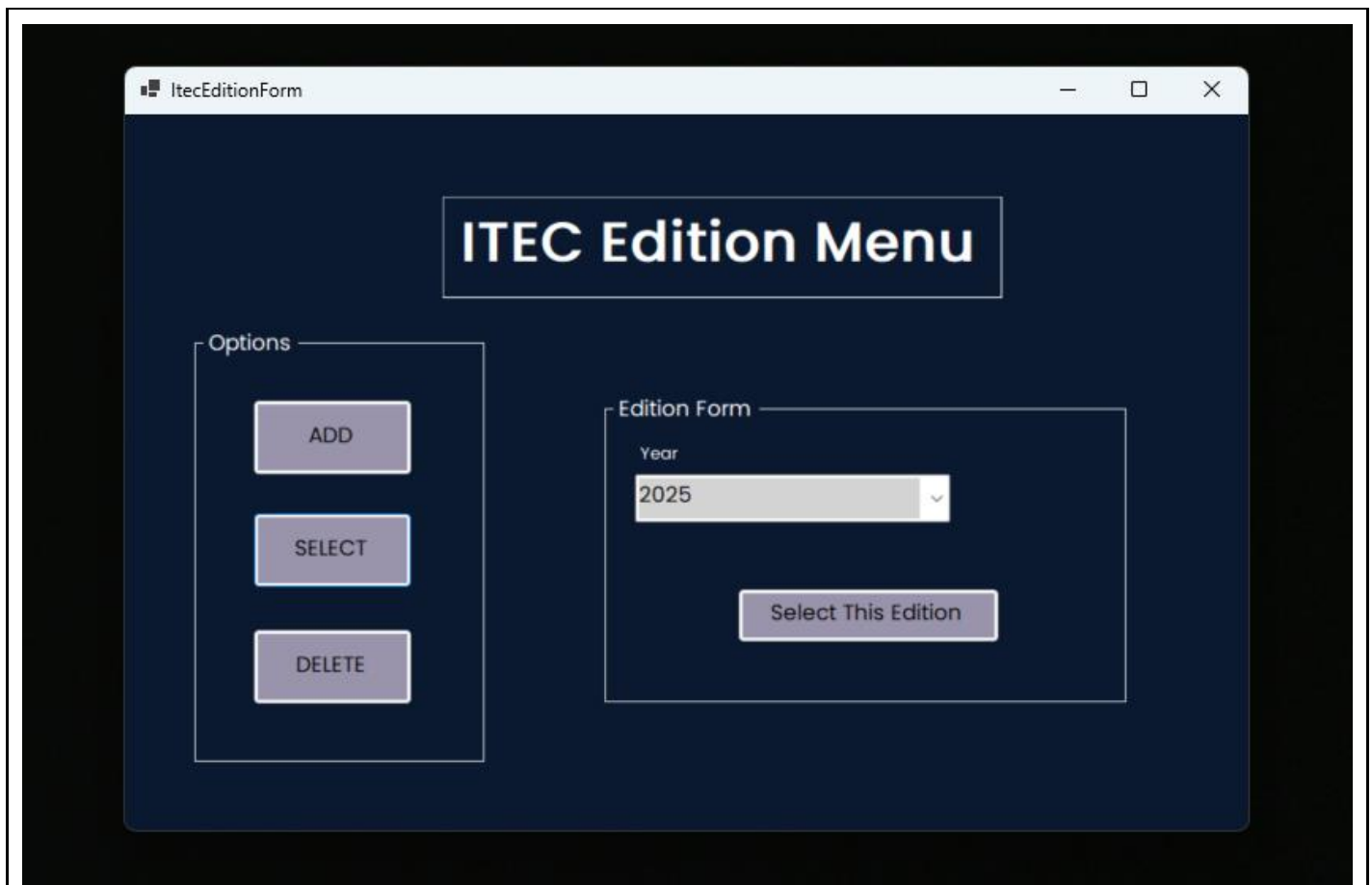
In case of column, write column name and in case of multiple columns, write query in last column

Interface Name	Add Edition
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UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Numericupdown	Numeric up down	Edition	Itec edition.
Theme text	Text box	Edition	Itec edition.
Description	Text box	Edition	Itec edition
Add button	button		

In case of column, write column name and in case of multiple columns, write query in last column

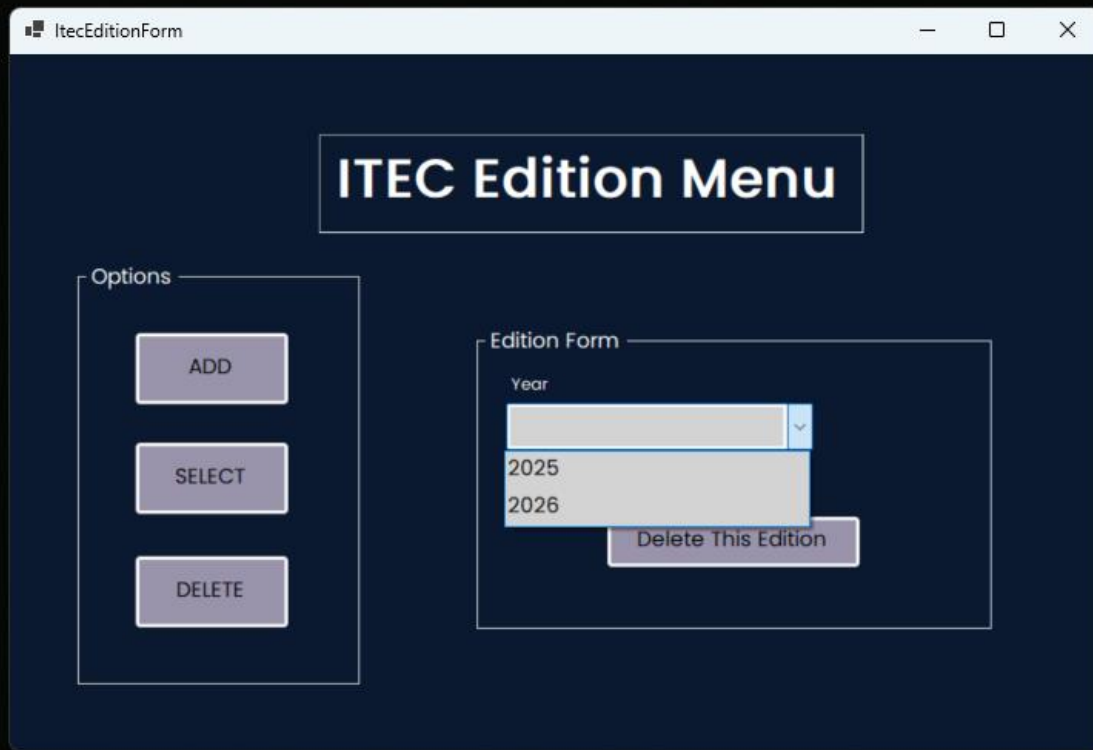
Interface Name	Select interface
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UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Groupbox1	Groupbox		
Combobox1	Combo box	Edition	Itec_edition
Select button	Button		

In case of column, write column name and in case of multiple columns, write query in last column

<i>Interface Name</i>	Delete Edition
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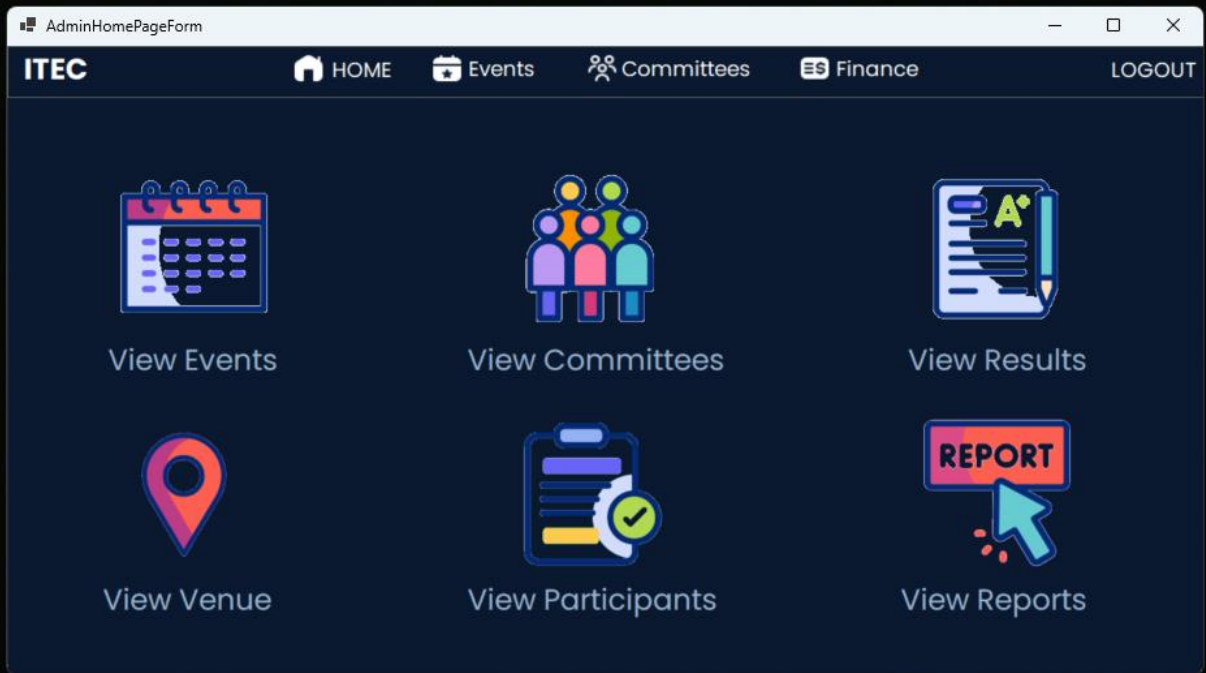


port

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Combo box 1	Combobox	Edition	Itec_edition
Button 1	Button		

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name	Admin Home
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UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
View Events	Gif-label-Image		
View Venue	Gif-label-Image		
View Committee	Gif-label-Image		
View Participants	Gif-label-Image		
View Result	Gif-label-Image		
View Report	Gif-label-Image		
MenuBar	panel		

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name	Event
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AdminEventPageForm

ITEC

HOME

Events

Committees

Finance

BACK TO MENU

Events

Options

ADD

UPDATE

DELETE

Add Event

Name

Category

Description

Date

23/03/2025

Time

14:57:04

Venue

Assign Committee

Event Expense Budget

6000

Register

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Button1	Button	Event	INSERT INTO itec_events (event_name, description, event_date, itec_id, event_category_id, venue_id, committee_id) VALUES (@Name, @Description, @dateOnly, @EditionId, @CategoryId, @VenueId, @CommitteeID)
Combo box1	Combo box	Event	INSERT INTO finances (itec_id,event_id,type_id,amount,from_entity_type,from_entity_id,to_entity_type,to_entity_id,description) VALUES

			(@SelectedEditionID,@event_id,@amount,@type_id,@from,@fromComm,@to,@toComm,@des)
Button 2	Button	Events	Same above queries
Date picker	Date time picker	Events	INSERT INTO venue_allocations (event_id,venue_id,assigned_date,assigned_time) VALUES (@eventId,@venueId,@date,@time)
Time picker	Date time picker	Events	SELECT COUNT(*) FROM itec_events i JOIN venue_allocations v ON i.venue_id = v.venue_id AND i.event_date = v.assigned_date WHERE i.event_date = @dateOnly AND i.venue_id = @venueId AND v.assigned_time = @timeOnly
Venue combo box	Combo box	Events	
Committee combo box	Combo box	Events	
Expense budget	Numeric updown	Events	

In case of column, write column name and in case of multiple columns, write query in last column

<i>Interface Name</i>	Update
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AdminEventPageForm

ITEC

HOME

Events

Committees

Finance

BACK TO MENU

Events

Options

ADD

UPDATE

DELETE

Update Event

Name

Date

23/03/2025

Time

15:08:06

Venue

Update Event

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Button1	Button	Event	UPDATE itec_events SET event_date = @Date, venue_id = @VenueId WHERE event_id = @EventId
Combo box1	Combo box	Events	UPDATE venue_allocations SET assigned_date = @Date, assigned_time = @Time WHERE event_id = @EventId

Button 2	Button	Events	
Date picker	Date time picker	Events	
Time picker	Date time picker	Events	

In case of column, write column name and in case of multiple columns, write query in last column

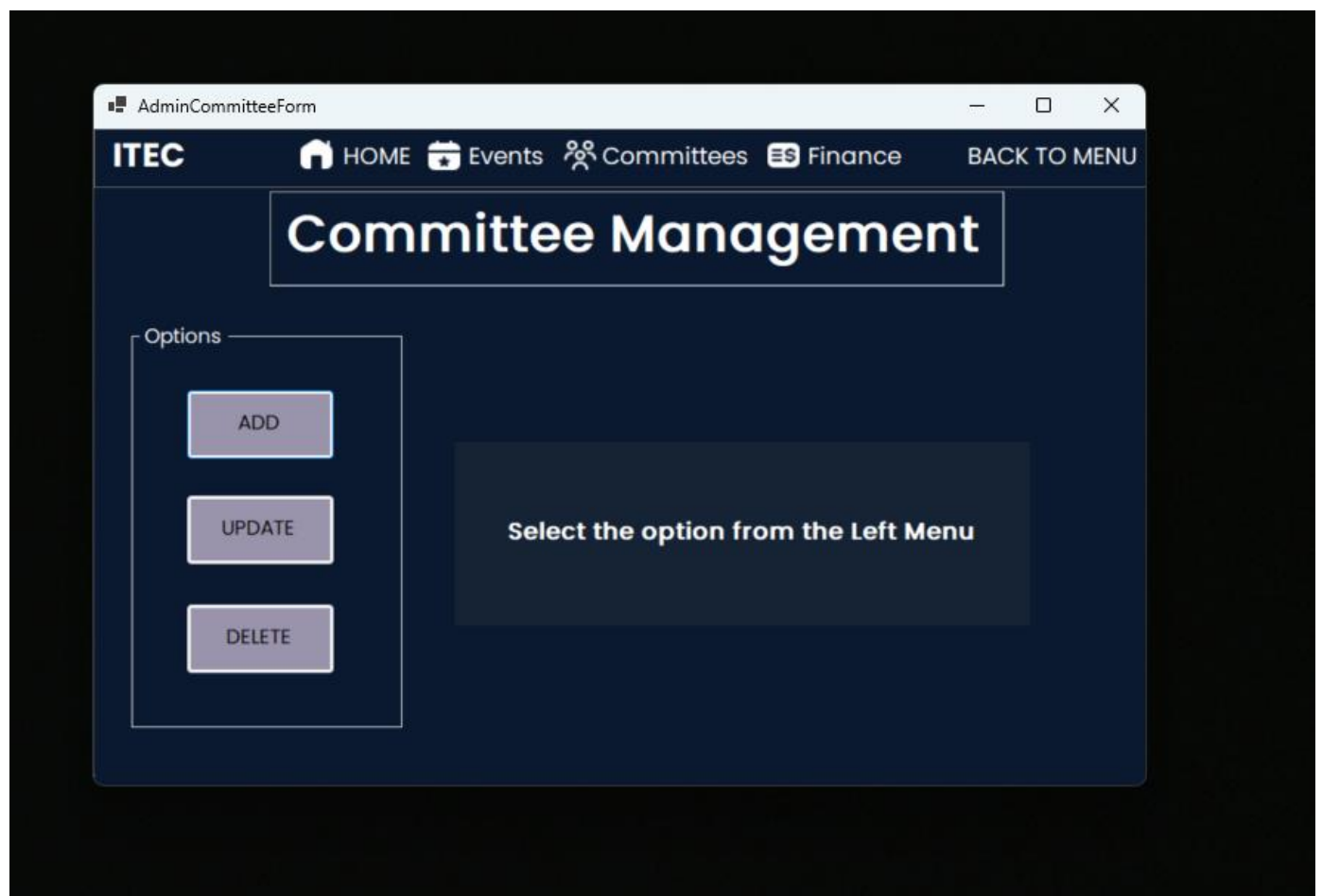
Interface Name

Delete events

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Combo box1	Combo box	Events	Itec_events
Datetime picker	Picker	Events	
Date time picker	picker	Events	

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name



UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
GroupBox1	Groupbox		
Button1	Button		
Button2	Button		
Button3	Button		
Label1	Label		

In case of column, write column name and in case of multiple columns, write query in last column


Interface Name

Add Committee

AdminCommitteeRegistrationForm

Add New Committee

Committee Name



☒ Add Members

	Select	Name	Category	Role	Duty	Deadline
1	<input type="checkbox"/>	abdullah_06	Student	Volunteer		
2	<input type="checkbox"/>	anassabir123	Student	Volunteer		
3	<input type="checkbox"/>	ahmed123	Student	Volunteer		
4	<input type="checkbox"/>	laibal	Student	Volunteer		
5	<input type="checkbox"/>	ahmedsaeed	Student	Volunteer		
6	<input type="checkbox"/>	babyXboss	Student	Volunteer		
7	<input type="checkbox"/>	hafzal	Student	Volunteer		

[Create Committee](#)

[Go Back](#)

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Group box 1	Group box	Committee	INSERT INTO committees (itec_id,committee_name) VALUES (@SelectedEditionID,@name)
Textbox	Textbox	Committee	
Check box1	Check box	Committee	INSERT INTO committee_members (committee_id,name,role_id) Values (@committeeId,@name,@roleId)
Data grid view	Data grid	Committee	INSERT INTO duties (committee_id,assigned_to,task_description,deadline,status_id) VALUES (@committeeId,@name,@description,@date,@statusId)
Button	Button	Committee	

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name

update

Update Committee

Committee Name

Marketing

☒ Update Members Duties

	Select	Name	Category	Role	Duty	Deadline
1	<input checked="" type="checkbox"/>	abdullah_06	Student	Student Lead	Marketing Ca...	2025-04-25
2	<input checked="" type="checkbox"/>	anassabir123	Student	Student Lead	Marketing Ca...	2025-04-25
3	<input checked="" type="checkbox"/>	laibal	Student	Volunteer	Marketing Ca...	2025-04-29
4	<input checked="" type="checkbox"/>	ahmedsaeed	Student	Volunteer	Marketing Ca...	2025-04-27
5	<input checked="" type="checkbox"/>	babyXboss	Student	Volunteer	Marketing Ca...	2025-04-07
6	<input checked="" type="checkbox"/>	Nauman1	Faculty	Faculty Advisor	Marketing Ca...	2025-04-25
7	<input checked="" type="checkbox"/>	samyahWahla	Faculty	Faculty Advisor	Marketing Ca...	2025-04-25

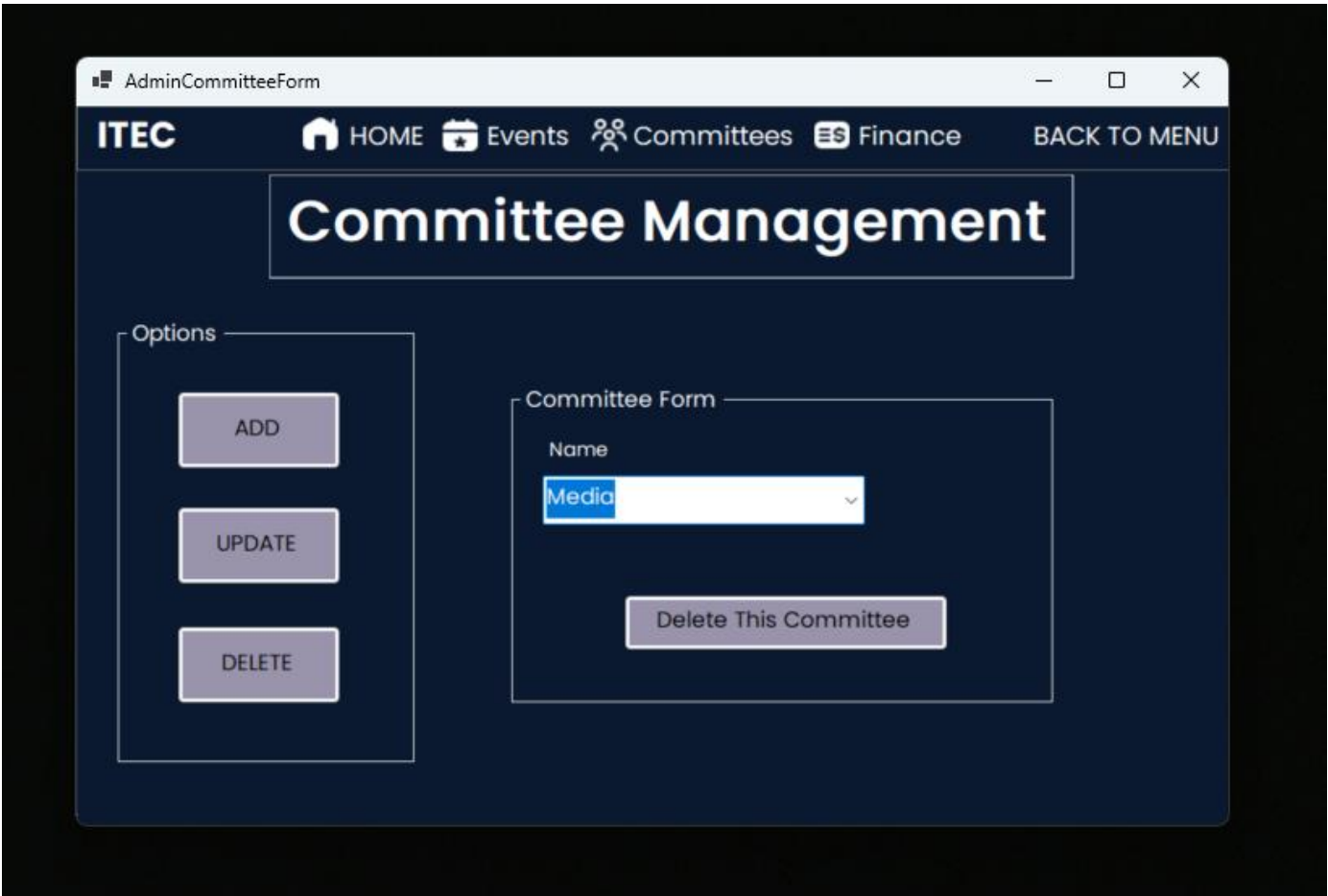
Update

[Go Back](#)

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Group box 1	Group box	Committee	
Combo box	Combo box	Committee	
Check box 1	Check box	Committee	select distinct cm.name as Name,r.role_name as Category,r2.role_name as Role,d.task_description as Duty,d.deadline as Deadline from committee_members cm join duties d on cm.committee_id = d.committee_id and cm.name = d.assigned_to join users u

			on u.username=cm.name join roles r on r.role_id=u.role_id join roles r2 on cm.role_id = r2.role_id where cm.committee_id =@committeeId"
Data grid view	Data grid	Committee	
Button	Button	Committee	UPDATE duties SET task_description=@taskDescr iption, deadline =@date WHERE committee_id =@committeeId and assigned_to = @name

In case of column, write column name and in case of multiple columns, write query in last column

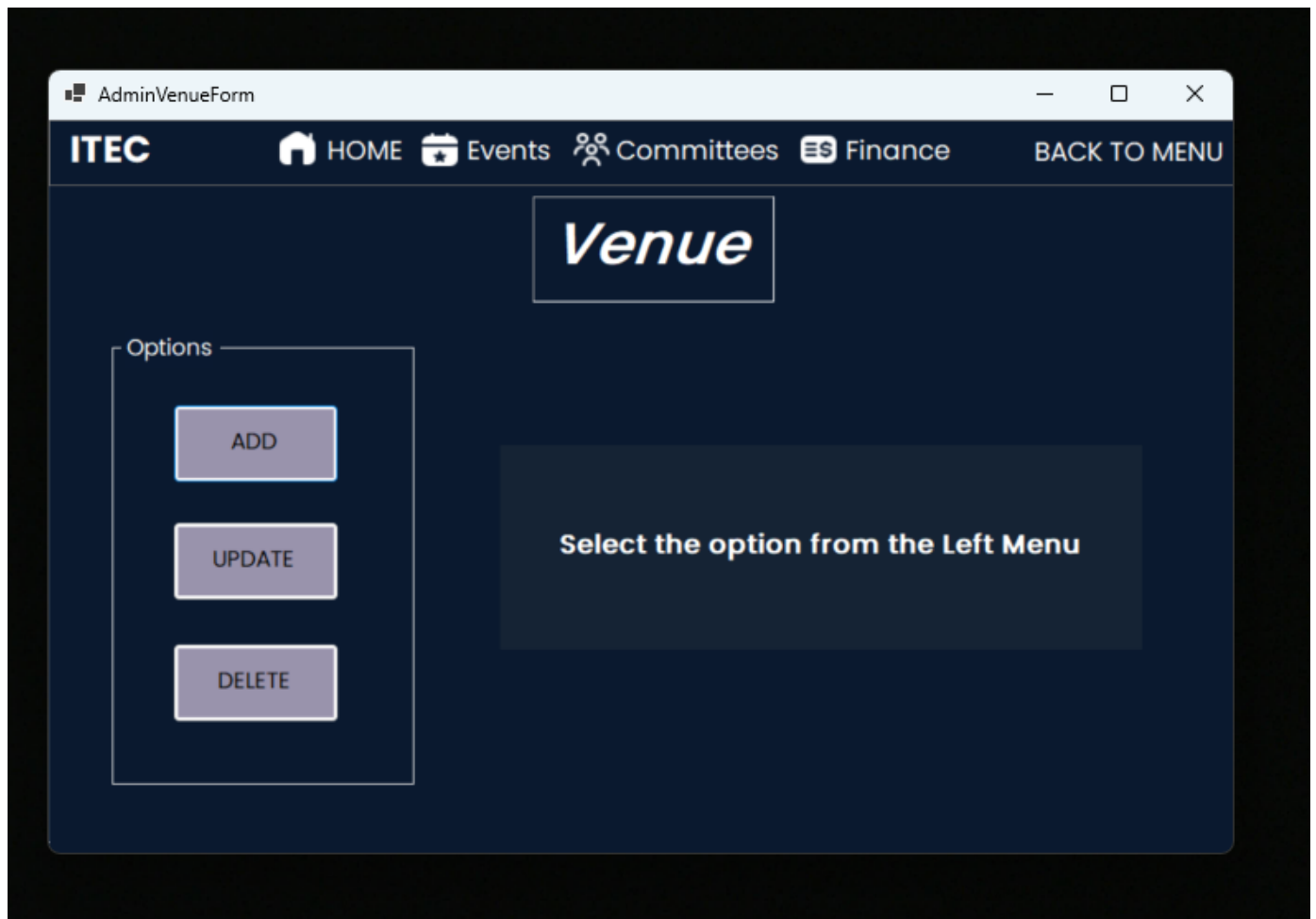
Interface Name	Delete Committee
	

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Group box 1	Group box	Committee	
Combo box	Combo box	Committee	
Button 1	Button	committee	DELETE FROM committees WHERE committee_id = @committeeId

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name

venue



UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
GroupBox1	Groupbox		

Button1	Button		
Button2	Button		
Button3	Button		
Label1	Label		

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name

Add Venue

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Textbox 1	Textbox	Venue	Venue
Numeric up down	Counter	Venue	Venue
Textbox 2	Textbox	Venue	Venue
button	button	Venue	Venue

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Textbox 1	Textbox	Venue	Venue
Numeric up down	Counter	Venue	Venue
Textbox 2	Textbox	Venue	Venue
button	button	Venue	Venue
Textbox 1	Textbox	Venue	Venue

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Textbox 1	Textbox	Venue	Venue
Numeric up down	Counter	Venue	Venue
Textbox 2	Textbox	Venue	Venue
button	button	Venue	Venue
Textbox 1	Textbox	Venue	Venue

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name	Fee Pending Status
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AdminParticipationForm

Participation Status Update

	Registration ID	Event Id	Participant Id	Payment	Fee
1	1	2	1	Pending	500.00

Pending
Canceled

Update Registrations

[Back to Home](#)

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Datagridview1	Datagridview1	Payment	UPDATE event_participants SET payment_status_id =@status where registration_id = @regId"
			select e.registration_id,e.event_id,e. participant_id,l.value,e.fee_a mount from event_participants e join lookup l on l.lookup_id = e.payment_status_id join participants p on p.participant_id=e.participant _id where e.payment_status_id =13 and p.itec_id=@SelectedEditionI D

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name

Event Result

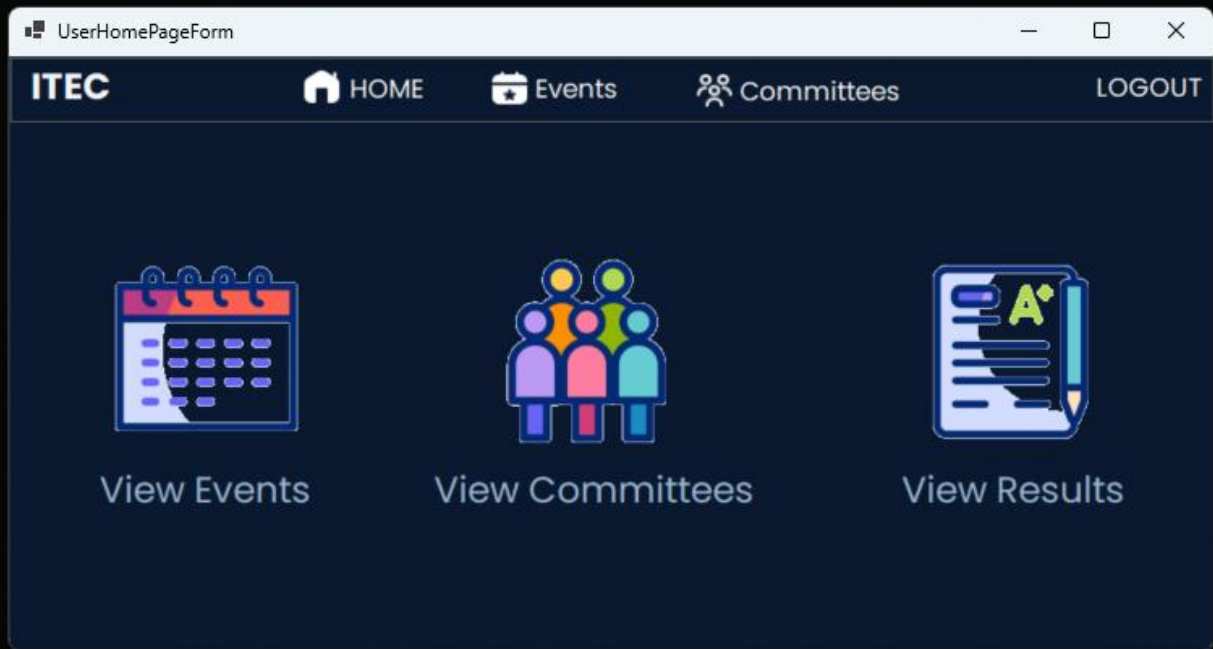
Result Id	Event Id	Participant Id	Team Id	Position	Score	Remarks
1	2	2	1		95.30	Outstanding!!
2	1	3	2		89.90	Great Work!!
3	1	4	2		87.40	Great Work!!
4	1	8		Winner	72.00	Nice Try!!
5	2	9		Runner-up		
6	2	10		Finalist		

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Groupbox1	Groupbox	Result	
Datagrid view	datagridview	Result	Update event_results SET position = @positionId, score =@score,remarks =@remarks where result_id = @result_id

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name

User Home Page



UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
View Events	Gif-label-Image		
View Result	Gif-label-Image		
View Committee	Gif-label-Image		

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name	Event Registration
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Event Registration Form

Registration

Event

Name

Email

Contact

Institute

Number Of Participants

Fee : 500

Event Registration Form

Registration

Name

Email

Contact

Institute

Number Of Participants

Fee : 500

Register

[Go To Home](#)

UserEventRegistrationForm

Event Registration Form

Registration

Fee : 500

Participant 2:

Name

Email

Contact

Institute

Fee : 500

Team Name

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
No of participant	Numeric up down	Registration	INSERT INTO participants (itec_id,name,email,contact,institute,role_id) VALUES (@SelectedEditionID,@name,@email,@contact,@instutition,@role_id)
			SELEC T team_id from team_participants where participant_id = @id
			INSERT INTO event_participants (event_id,participant_id,paym

			ent_status_id,fee_amount) VALUES (@event_id,@participant_id, @payment_id,@amount)
			Insert INTO event_results (event_id,participant_id,team _id) VALUES (@event_id,@participant_id, @team_id)"
			INSERT INTO finances (itec_id,event_id,type_id,amo unt,from_entity_type,from_en tity_id,to_entity_type,to_entit y_id,description) VALUES (@SelectedEditionID,@event _id,@type_id,@amount,@fro m_entity_type,@from_entity_ id,@to_entity_type,@to_entit y_id,@description)
In case of column, write column name and in case of multiple columns, write query in last column			

<i>Interface Name</i>	Duty task
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UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Status	Combo box	Duty	SELECT task_description,deadline,status_id from duties where assigned_to =@UserLoginUserName and committee_id =@committeeId
Name	Combo box	duty	UPDATE duties SET status_id = @status_Id WHERE committee_id = @committeeId and assigned_to =@UserLoginUserName

In case of column, write column name and in case of multiple columns, write query in last column

The screenshot shows a web application window titled "FacultyEventRegistrationForm". Inside, there is a dark blue background with a white "Event Registration Form" box. The form has the following elements:

- Event**: A dropdown menu currently showing "Coding Competition".
- Name**: A text input field.
- Email**: A text input field.
- Contact**: A text input field.
- Institute**: A text input field.
- Register As**: A dropdown menu with an open list showing "Professional", "Guest Speaker", and "Judge".
- Buttons**: "Register" and "Go To Home".

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Register as	Combo box	registration	INSERT INTO participants (itec_id,name,email,contact,institute,role_id) VALUES (@SelectedEditionID,@name,@email,@contact,@instituti on,@role_id)
event	Combo box	Registration	
email	Text box	registration	
contact	Text box	registration	

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name

Sponsor Registration

The screenshot shows a web application window titled "Vendor_SponserHomePage". Inside, there is a "Sponsor Registration" form. The form contains the following elements:

- Name:** A text input field.
- Contact:** A text input field.
- To Entity Type:** A dropdown menu.
- To Entity Name:** A dropdown menu.
- Amount:** A numeric input field with a value of 0.
- Buttons:** A "Register" button and a "Logout" link.

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Name	textbox	Sponsor_Vendor	INSERT INTO sponsors (sponsor_name, contact) VALUES (@Name,@contact)
Contact	Textbox	Sponsor_Vendor	Sponsor
User type	Picker	Sponsor_Vendor	finance
Name	Picker	Sponsor_Vendor	
amount	picker	Sponsor_Vendor	

In case of column, write column name and in case of multiple columns, write query in last column

Interface Name

Vendor Registration

The screenshot shows a web browser window with the title 'Vendor_SponserHomePage'. Inside the window, there is a dark blue background with a white-bordered box titled 'Vendor Registration'. Inside this box, there are three text input fields labeled 'Name', 'Contact', and 'Service Type'. Below these fields, there are two buttons: 'Register' and 'Logout'.

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Name	textbox	Sponsor_Vendor	INSERT INTO vendors (vendor_name,contact,service_type) VALUES (@name,@contact,@servicetype)
Contact	Textbox	Sponsor_Vendor	
service	textbox	Sponsor_Vendor	

In case of column, write column name and in case of multiple columns, write query in last column

Business Report-1

Business Report Name:

(REPORT NOT SUPPORTED IN .NET)

<i>Sample of report:</i>
<i>Query to build Report:</i>

<i>Business Report-2</i>	
<i>Business Report Name:</i> (REPORT NOT SUPPORTED IN .NET)	
<i>Sample of report:</i>	
<i>Query to build Report:</i>	