




# CSC104-Database Systems Mid Project Report(Spring 2025)



## Student Details

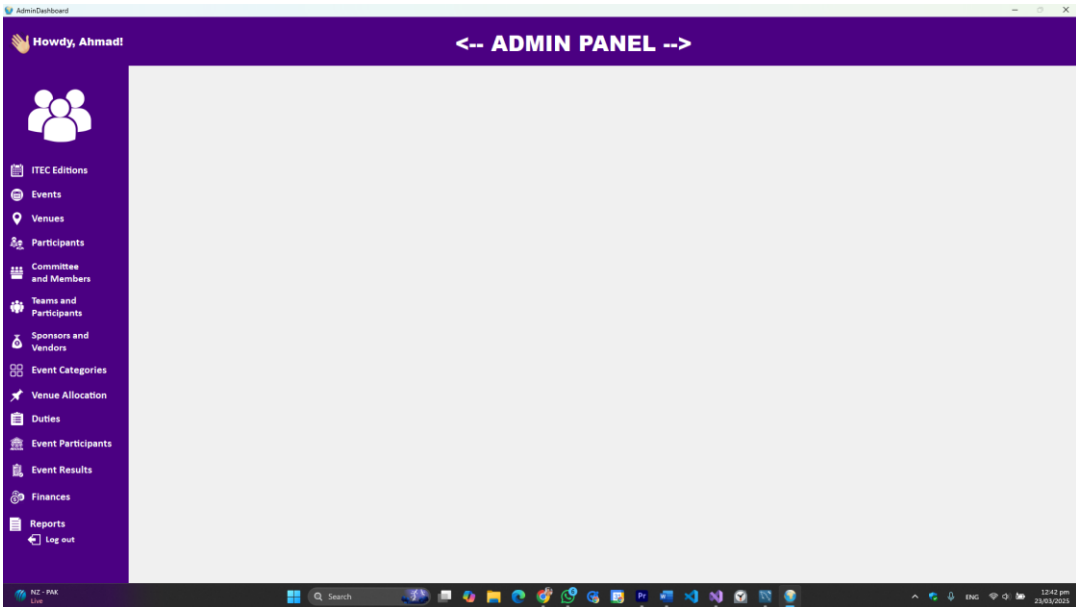
Repository Name	DBS25P072
Registration Number	2024-CS-72

<b>Project</b>	
Project Title	ITEC Event Management System
Executive Summary	<p><i>This project is purposed to streamline event management; as it provides a centralized Event Management System to digitize and automate the entire process.</i></p> <p><i>This is a desktop-based Windows Form Application using C# and MySQL, developed to streamline event planning, participant management, committee roles, financial tracking, and duty assignments.</i></p> <p><i>The system also helps managing the finances of event, and getting financial reports</i></p>

Interface Name	Login Page		
<div></div>			
UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
UsernameTextBox	Text Box	User	Users
PasswordTextBox	Text Box		Roles
LoginButton	Button		
SignupButton	Button		
SELECT * FROM Users U INNER JOIN Roles R ON U.role_id = R.role_id WHERE username = '{UsernameTextBox.Text.ToLower()}'			

Interface Name		Signup Page	
UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
UsernameTextBox	Text Box	User	Users
EmailTextBox	Text Box		Roles
PasswordTextBox	Text Box		
ConfirmPasswordTextBox	Text Box		
AccountTypeComboBox	Combo box		

INSERT INTO Users (username, email, password\_hash, role\_id) VALUES ('{UsernameTextBox.Text.ToLower()}', '{EmailTextBox.Text.ToLower()}', '{PasswordTextBox.Text}', {SignupRole.SelectedIndex} + 3 )

Interface Name		Admin Panel	
			
UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
TopPanel	Panel		
SidePanel	Panel		

MainPanel	Panel		
ITECEditionsButton	Button		
EventsButton	Button		
VenuesButton	Button		
.....so on			

<b>Interface Name</b>	ITEC Editions
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Item ID	year	theme	description
1	25	25Theme	25 ITEC
2	2028	26Theme	7 ITEC
4	2026	ABC	DEFGHI
5	2007		

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
IDTextBox	Text Box	ITECEdition	itec_editions
YearTextBox	Text Box	ITECEditionDL	
ThemeTextBox	Text Box		
DescriptionTextBox	Text Box		
AddButton	Button		
RetrieveButton	Button		
UpdateButton	Button		
DeleteButton	Button		
ShowAllButton	Button		
SearchButtons	Button		
DataGrid	Data Grid View		

INSERT INTO Itec\_editions (year, theme, description) VALUES ({yearValue}, {themeValue}, {descriptionValue})

SELECT \* FROM Itec\_Editions

Select \* FROM Itec\_editions WHERE itec\_ID = {int.Parse(IDTextBox.Text)}

UPDATE Itec\_editions SET year = {int.Parse(YearTextBox.Text)}, theme = '{ThemeTextBox.Text}',  
description = {descriptionValue} WHERE itec\_ID = {int.Parse(IDTextBox.Text)}

## Interface Name

## Events

ID	Name	Date	Description	ITEC ID	Category ID	Venue ID	Committee ID
1	A	19/03/2025	NULL	1	NULL	NULL	NULL
2	B	20/03/2025	NULL	NULL	NULL	NULL	NULL
3	C	20/03/2025	NULL	NULL	NULL	4	1

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Indication Labels	Label	Event	events
Text Boxes	Text Box	EventDL	Itec_editions
Combo Boxes	Combox		event_categories
Search Buttons	Button		venues
CRUD Buttons	Button		committees
DataGrid View	Data Grid		
UpdateButton	Button		
DeleteButton	Button		
ShowAllButton	Button		
SearchButtons	Button		
DataGrid	Data Grid View		

SELECT \* FROM itec\_events

INSERT INTO itec\_events (event\_name, event\_date, description, ITEC\_ID, event\_category\_id, venue\_ID, committee\_ID) VALUES ('{e.name}', '{e.date.ToString("yyyy-MM-dd")}', {descriptionValue}, {ITECIDValue}, {categoryIDValue}, {venueIDValue}, {committeeIDValue})

SELECT \* FROM itec\_events WHERE event\_id = {e.ID}

DELETE FROM itec\_events WHERE event\_id = {id}

## Interface Name

## Participants

participant_id	fee_id	name	email	contact	institute	role_id
1		Ajmer	aj@gmail.com	300000000		
2		Ahmad Bahar	ahmad@gmail.com	0		
3		Harid Azen	harid@gmail.com	03001135452		
4	2	Shahid Azen	shahid@gmail.com	03001135452	UET	1
5	2	Shahryar	shahryar@gmail.com	301234567		
6		Sana	sana@gmail.com	301234566	Al Falek	
13	1	Aaf	ahmad123@gmail.com	03001135425		
14		Saf	ahmad123@gmail.com	03001135425		2

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Indication Labels	Label	Participant	participants
Text Boxes	Text Box	ParticipantDL	Itec_editions
Combo Boxes	Combox		roles
Search Buttons	Button		
CRUD Buttons	Button		
DataGrid View	Data Grid		
UpdateButton	Button		
DeleteButton	Button		
ShowAllButton	Button		
SearchButtons	Button		
DataGrid	Data Grid View		

INSERT INTO event\_participants (event\_id, participant\_id, payment\_status\_id, fee\_amount) VALUE ({eventID}, {participantID}, {paymentStatusID}, {feeAmount})

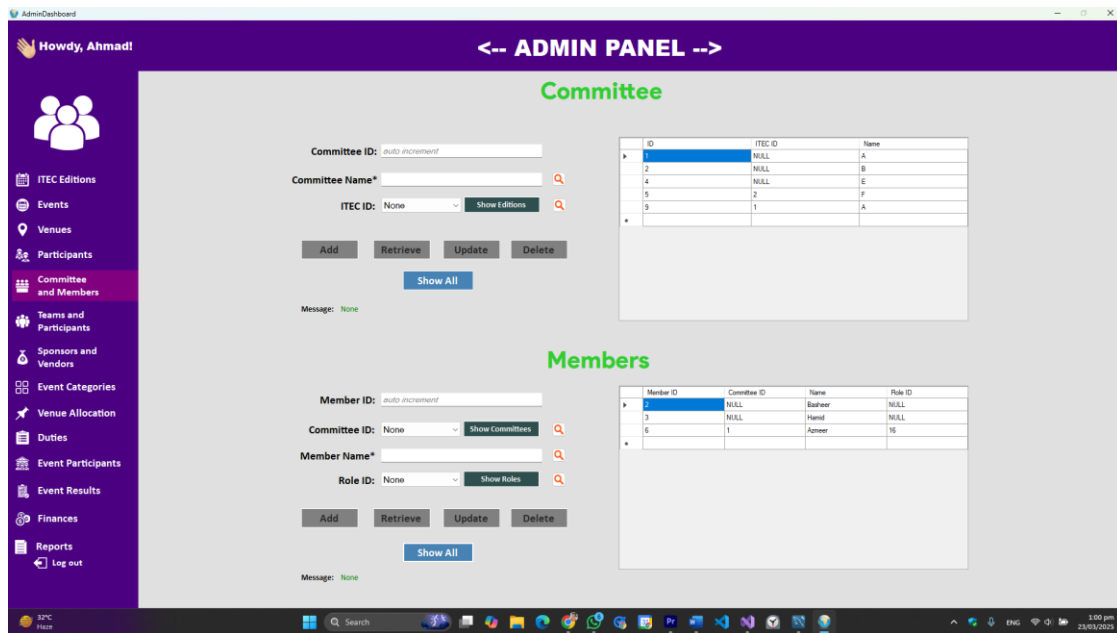
SELECT \* FROM event\_participants

SELECT \* FROM event\_participants WHERE registration\_id = {ID}

UPDATE event\_participants SET event\_id = {eventID}, participant\_id = {participantID},  
payment\_status\_id = {paymentStatusID}, fee\_amount = {feeAmount} WHERE registration\_id =  
{participant.RegistrationID}

## Interface Name

## Committee and Members



UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Indication Labels	Label	Committee	committees
Text Boxes	Text Box	CommitteeDL	members
Combo Boxes	Combox	CommitteeMember	Itec_editions
Search Buttons	Button	CommitteeMemberDL	lookup
CRUD Buttons	Button		
DataGrid View	Data Grid		
UpdateButton	Button		
DeleteButton	Button		
ShowAllButton	Button		
SearchButtons	Button		
DataGrid	Data Grid View		

SELECT \* FROM Committees

INSERT INTO Committees (itec\_id, committee\_name) VALUES ({ITECIDValue}, '{committee.Name}')

UPDATE Committees SET itec\_id = {ITECIDValue}, committee\_name = '{committee.Name}' WHERE

committee\_id = {committee.ID}

DELETE FROM Committees WHERE committee\_id = {committeeID}

SELECT \* FROM Committee\_members

INSERT INTO Committee\_members (committee\_id, name, role\_id) VALUES ({committeeIDValue},  
'{member.name}', {roleIDValue})

SELECT \* FROM Committee\_members WHERE member\_id = {id}

UPDATE Committee\_members SET committee\_id = {committeeIDValue}, name = '{member.name}',  
role\_id = {roleIDValue} WHERE member\_id = {member.ID}

DELETE FROM Committee\_members WHERE member\_id = {ID}

## Interface Name

## Venue Allocation

Allocation ID	Event ID	Venue ID	Date	Time
1	1	4	20/03/2025	00:00:00
2	2	1	20/03/2025	14:00:00
3	NULL	NULL	21/03/2025	17:30:00
4	NULL	1	20/03/2025	16:30:00
5	3	4	20/03/2025	14:00:00
6	2	5	20/03/2025	14:00:00
7	2	5	20/03/2025	14:00:00

UI Component Name	Type of UI component	Class Attribute name, Classname, attribute name	Linked to which database column/table
Indication Labels	Label	VenueAllocation	Venue_allocations
Text Boxes	Text Box	VenueAllocationDL	venues
Combo Boxes	Combox		events
Search Buttons	Button		lookup
CRUD Buttons	Button		
DataGrid View	Data Grid		
UpdateButton	Button		

DeleteButton	Button		
ShowAllButton	Button		
SearchButtons	Button		
DataGrid	Data Grid View		

"SELECT V1.Venue\_Allocation\_ID AS ID\_1, V1.event\_ID AS EventID\_1, V2.Venue\_Allocation\_ID ID\_2, V2.event\_ID EventID\_2, V1.venue\_id AS VenueID, V1.assigned\_date AS Date, V1.assigned\_time AS Time FROM venue\_allocations V1 INNER JOIN venue\_allocations V2 ON V1.venue\_id = V2.venue\_id AND V1.assigned\_date = V2.assigned\_date AND V1.assigned\_time = V2.assigned\_time WHERE V1.venue\_allocation\_id < V2.venue\_allocation\_ID";

"SELECT \* FROM Venue\_Allocations"

\$"UPDATE Venue\_Allocations SET Event\_ID = {eventID}, Venue\_ID = {venueID}, Assigned\_Date = '{venueAllocation.AssignedDate.ToString("yyyy-MM-dd")}', Assigned\_Time = '{venueAllocation.AssignedTime.ToString()}' WHERE Venue\_Allocation\_ID = {venueAllocation.AllocationID}";

"DELETE FROM Venue\_Allocations WHERE Venue\_Allocation\_ID = " + eventID;

...as so on, all Tabs of Admin Panel

<b><i>Business Report-1</i></b>	
<i>Business Report Name:</i> Participants	
<i>Sample of report:</i>	



**ADMIN PANEL**

**Participants Report**

ITEC ID: 2  
 Role ID: None  
 Event ID: None  
 Retrieve

ID	Name	Email	Contact	Institute	ITEC ID	Role ID
4	Shahid Amin	shahid@gmail.com	03001335452	UET	2	1
5	Shahryaar	shahryaar@gmail.com	301234567	NULL	2	-1

*Query to build Report:*

*SELECT \* FROM Participants WHERE itec\_id = {ID}*

*SELECT \* FROM Participants WHERE role\_id = {ID}*

*SELECT DISTINCT p.participant\_id, p.itec\_id, p.name, p.email, p.contact, p.institute, p.role\_id FROM event\_participants e INNER JOIN participants p ON e.participant\_id = p.participant\_id WHERE e.event\_id = {ID}*