**Student Details**

| Repository Name | DBS25P072 |
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| Registration Number | 2024-CS-72 |

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| ***Project*** |  |
| Project Title | ITEC Event Management System |
| Executive Summary | *This project is purposed to streamline event management; as it provides a centralized Event Management System to digitize and automate the entire process.*  *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.*  *The system also helps managing the finances of event, and getting financial reports* |

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| ***Interface Name*** | Login 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 | | 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()}' | |

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| ***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 ) | |

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| ***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 |  |  |  | | |

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| ***Interface Name*** | ITEC Editions |
| |  |  |  |  | | --- | --- | --- | --- | | **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)} | |

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| ***Interface Name*** | Events |
| |  |  |  |  | | --- | --- | --- | --- | | **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} | |

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| ***Interface Name*** | Participants |
| |  |  |  |  | | --- | --- | --- | --- | | **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} | |

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| ***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} | |

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| ***Interface Name*** | Venue Allocation |
| |  |  |  |  | | --- | --- | --- | --- | | **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

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| ***Business Report-1*** |  |
| *Business Report Name:* Participants | |
| *Sample of report:* | |
| *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}* | |