**Student Details**

| Repository Name | DBS25P156 |
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| Registration Number | 2024-CS-156 |

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| ***Project*** |  |
| Project Title | ITEC - Event Management System |
| Executive Summary | 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.  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.  The event management process is broken down into various modules, each handling specific tasks such as:   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.   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 while providing easy access to relevant information for both admins and participants. |

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| ***Interface Name*** | Login Form |
| *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 | |

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| ***Interface Name*** | Sign Up |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***Interface Name*** | Forget Password |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***Interface Name*** | Edition Form |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***Interface Name*** | Add Edition |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***Interface Name*** | Select interface |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***Interface Name*** | Delete Edition |
| *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 | |

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| ***Interface Name*** | Admin Home |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***Interface Name*** | Event |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***Interface Name*** | Update |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***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 | |

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| ***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 | |

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| ***Interface Name*** | Add 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 | 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 | |

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| ***Interface Name*** | update |
| |  |  |  |  | | --- | --- | --- | --- | | **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 box1 | 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=@taskDescription, 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 | |

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| ***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 | |

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| ***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 | |

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| ***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 | |

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| ***Interface Name*** |  |
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| ***Interface Name*** |  |
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| ***Interface Name*** | Fee Pending Status |
| |  |  |  |  | | --- | --- | --- | --- | | **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\_amount 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=@SelectedEditionID | |  |  |  |  | |  |  |  |  | |  |  |  |  |   In case of column, write column name and in case of multiple columns, write query in last column | |

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| ***Interface Name*** | Event Result |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***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 | |

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| ***Interface Name*** | Event Registration |
| |  |  |  |  | | --- | --- | --- | --- | | **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) | |  |  |  | SELECT team\_id from team\_participants where participant\_id = @id | |  |  |  | INSERT INTO event\_participants (event\_id,participant\_id,payment\_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,amount,from\_entity\_type,from\_entity\_id,to\_entity\_type,to\_entity\_id,description) VALUES (@SelectedEditionID,@event\_id,@type\_id,@amount,@from\_entity\_type,@from\_entity\_id,@to\_entity\_type,@to\_entity\_id,@description) |   In case of column, write column name and in case of multiple columns, write query in last column | |

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| ***Interface Name*** | Duty task |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***Interface Name*** | Other Registration in Events |
| |  |  |  |  | | --- | --- | --- | --- | | **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,@instutition,@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 | |

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| ***Interface Name*** | Sponsor Registration |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***Interface Name*** | Vendor Registration |
| |  |  |  |  | | --- | --- | --- | --- | | **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 | |

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| ***Business Report-1*** |  |
| *Business Report Name: (REPORT NOT SUPPORTED IN .NET)* | |
| *Sample of report:* | |
| *Query to build Report:* | |

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| ***Business Report-2*** |  |
| *Business Report Name: (REPORT NOT SUPPORTED IN .NET)* | |
| *Sample of report:* | |
| *Query to build Report:* | |