**Student Details**

| Repository Name | **DBS25P116** |
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| Registration Number | **2024\_CS\_116** |

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| ***Project*** |  |
| Project Title | Itec Event Management System |
| Executive Summary | **ITEC Event Management System – User Role Summary**  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.  **1. Admin Role – System & Event Manager**  The **Admin** is responsible for managing the entire event, ensuring smooth operations through structured event planning, participant tracking, financial management, and reporting.  **Key Responsibilities:**   * **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 committiees 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:**   * **Sponsorship Management:** Contribute funds to specific events. |

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| ***Interface Name :*** | SignUp |
| *Picture*     |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | UserName | Textbox | SignUpCRUDcs.username | users.username | | Email | Textbox | SignUPCRUDcs.email | users.email | | Password | Textbox | SignUPCRUDcs.password | users.password\_hash | | Role | Textbox | SignUPCRUDcs.role | users.role\_id | | SignUp | Button | SignUPCRUDcs.AddUser() | users | | Back | Button | SignUp form |  | | |

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| ***Interface Name :*** | SignIn |
| *Picture*     |  |  |  |  | | --- | --- | --- | --- | | **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 | | |
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| ***Interface Name :*** | Admin Interface |
| *Picture*     |  |  |  |  | | --- | --- | --- | --- | | **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 | | |

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| ***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 | | |

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| ***Interface Name*** | Student Interface |
| *Picture*     |  |  |  |  | | --- | --- | --- | --- | | **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 | | |

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| ***Interface Name*** | Sponsors |
| *Picture*   |  |  |  |  | | --- | --- | --- | --- | | **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 | | |

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| ***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 | | |

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

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| ***Business Report-2*** |  |
| *Business Report Name:* Committee | |
| *Sample of 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 | |

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| ***Business Report-3*** |  |
| *Business Report Name:* Events | |
| *Sample of report:* | |
| ***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 | |

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| ***Business Report-4*** |  |
| *Business Report Name:* Finances | |
| *Sample of report:* | |
| ***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 | |