**Student Details**

| Repository Name | DBS25P041 |
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| Registration Number | 2024-CS-41 |

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| ***Project*** |  |
| Project Title | Faculty Management System |
| Executive Summary | *This project, Faculty Management System, is a Windows-based application developed using C# and SQL to help manage faculty workload and resource allocation efficiently. The system allows administrators to assign courses, allocate rooms, track faculty schedules, and generate reports based on workload distribution.*  *The project provides an interactive user interface where faculty members and administrators can easily manage and monitor assignments. Role-Based Access Control (RBAC) ensures that different users (Admin, Faculty, and Department Head) have access to the relevant functionalities.*  *Key features of the project include:*   * *Course Management: Assign courses to faculty members.* * *Project Assignment: Faculty members can be assigned research projects.* * *Room Allocation: Assign classrooms or labs to faculty.* * *Scheduling: Faculty schedules can be managed efficiently.* * *Reports Generation: Business reports provide insights into faculty workload distribution.*   *The system is designed to reduce manual workload, prevent overburdening faculty, and optimize resource allocation. By using SQL queries for data retrieval and modification, the system ensures fast and efficient operations.*  *The ultimate goal is to create a user-friendly and efficient faculty workload management system that can be expanded with additional features in the future.* |

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| ***Interface Name*** | Register |
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| ***Interface Name*** | Forgot Password |
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| ***Interface Name*** | Admin Dashboard |
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| ***Interface Name*** | Faculty Management |
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| ***Interface Name*** | Department Head Dashboard |
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| ***Interface Name*** | Faculty Admin Role Management |
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| ***Business Report-1*** | Faculty Course Assignments |
| *Business Report Name:* *Faculty Course Assignments* | |
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| ***Query to build Report:***  *SELECT f.name AS Faculty, c.course\_name AS Course*  *FROM faculty\_courses fc*  *JOIN faculty f ON fc.faculty\_id = f.faculty\_id*  *JOIN courses c ON fc.course\_id = c.course\_id";* | |

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| ***Business Report-2*** | Rooms Allocated By Semester |
| *Business Report Name:* *Rooms Allocated By Semester* | |
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| ***Query to build Report:***  *SELECT s.term AS Term, s.year AS Year, r.room\_name AS Room*  *FROM faculty\_room\_allocations fra*  *JOIN semesters s ON fra.semester\_id = s.semester\_id*  *JOIN rooms r ON fra.room\_id = r.room\_id* | |

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| ***Business Report-3*** | Faculty Admin Roles |
| *Business Report Name:* *Faculty Admin Roles* | |
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| ***Query to build Report:***  *SELECT f.name AS Faculty, far.role\_name AS Role, s.term AS Term, s.year AS Year*  *FROM faculty\_admin\_roles far*  *JOIN faculty f ON far.faculty\_id = f.faculty\_id*  *JOIN semesters s ON far.semester\_id = s.semester\_id* | |

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| ***Business Report-4*** | Courses Offered By Semester |
| *Business Report Name:* *Courses Offered By Semester* | |
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| ***Query to build Report:***  *SELECT s.term AS Term, s.year AS Year, c.course\_name AS Course*  *FROM faculty\_courses fc*  *JOIN semesters s ON fc.semester\_id = s.semester\_id*  *JOIN courses c ON fc.course\_id = c.course\_id* | |