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UNIVERSITÉ ISLAMIQUE DE TECHNOLOGIE
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DHAKA, BANGLADESH
ORGANIZATION OF ISLAMIC COOPERATION



SWE 4402

Software Requirement and Specification Lab

Lab Task

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Department : Computer Science and Engineering
Program : B.Sc. in Software Engineering
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Requirement -1: User-friendly interface

Description: Ensure that EduTrack has an intuitive and user-friendly interface to make it accessible for teachers, students, administrators, and parents with varying levels of technical proficiency.

Requirement -2: Customizable Dashboard and profile

Description: EduTrack should offer customizable dashboards for administrators, teachers, students, and parents. This feature should allow each user to personalize their interface, displaying relevant information and tools, thereby improving user experience and efficiency in accessing important functionalities.

Requirement -3: Attendance Tracking and Reporting

Description: Develop an attendance tracking system that should allow teachers to easily record and monitor student attendance. Additionally, provide automated attendance reports for administrators and parents to keep track of students' attendance patterns and identify potential issues.

Requirement -4: Transparent Grading and Performance Management

Description: The system of EduTrack should generate transparent and easily understandable progress reports for students, giving them insights into their academic achievements, areas for improvement, and overall progress. This feature should enhance communication between teachers, students, and parents, fostering a collaborative approach to academic success.

Requirement -5: Schedule Management

Description: EduTrack should streamline class scheduling, provide real-time updates, optimize resource use, and offer customizable calendar views with automated reminders. Teachers can indicate availability, and the system integrates with the academic calendar. EduTrack ensures a smooth and efficient scheduling experience for administrators, teachers, students, and parents.

Requirement -6: Assignment Desk

Description: EduTrack should facilitate easy assignment creation for teachers, allow online submission for students, and automate deadline reminders. A transparent grading system and instant feedback loop, enhance the learning experience.

Requirement -7: Multi-level Communication Channel

Description: EduTrack should integrate a multi-channel communication system to facilitate seamless interaction among teachers, students, parents, and administrators. This feature should include messaging, announcements, and discussion forums to enhance collaboration, address concerns promptly, and keep all stakeholders informed about important events and updates.

Requirement -8: Enrollment and Record Management System

Description: EduTrack should have a centralized enrollment system that enables school administrators to efficiently manage student admissions, transfers, and withdrawals. This feature should streamline the enrollment process, automate documentation, and provide real-time updates to all relevant stakeholders, ensuring accurate and up-to-date student records.

Requirement -9: Resource Library and Collaborative Tools

Description: EduTrack should provide a centralized resource library with educational materials, lesson plans, and multimedia content. Additionally, collaborative tools like discussion forums and group projects should be integrated to promote interaction among students and educators, fostering a more engaging and dynamic learning environment.

Requirement -10: Data Security and Privacy

Description: EduTrack should prioritize data security and privacy. The system should implement authentication mechanisms, encryption protocols, and access controls to ensure that sensitive student information is protected. Compliance with data protection regulations and regular security audits is part of the system's design to instill trust among users.