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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
Semester : Winter 2022-2023 (4th)
Date : 15/01/2024

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 offers customizable dashboards for administrators, teachers, students, and parents. This feature allows 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 allows 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 generates transparent and easily understandable progress reports for students, giving them insights into their academic achievements, areas for improvement, and overall progress. This feature enhances communication between teachers, students, and parents, fostering a collaborative approach to academic success.

Requirement -5: Schedule Management

Description: EduTrack streamlines class scheduling, provides real-time updates, optimizes resource use, and offers 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 facilitates easy assignment creation for teachers, allows online submission for students, and automates deadline reminders. A transparent grading system and instant feedback loop, enhance the learning experience.

Requirement -7: Multi-level Communication Channel

Description: EduTrack integrates a multi-channel communication system to facilitate seamless interaction among teachers, students, parents, and administrators. This feature includes 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 has a centralized enrollment system that enables school administrators to efficiently manage student admissions, transfers, and withdrawals. This feature streamlines the enrollment process, automates documentation, and provides real-time updates to all relevant stakeholders, ensuring accurate and up-to-date student records.

Requirement -9: Resource Library and Collaborative Tools

Description: EduTrack provides 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 prioritizes data security and privacy. The system implements 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.