

Class Routine Management System

Department of ICE

**1.Requirement Analysis :**

Functional Requirements :

Functional requirements refer to the specific features, functionalities, and behaviors that a software system or product should exhibit to meet the needs of its users or stakeholders.

Functional requirements of the developed CRMS are identified as below:

* In this class routine management system, the stakeholders can be students, teachers and administrators.
* The system should allow administrators to create and manage schedules for students, teachers, and classrooms.
* The system should allow teachers to view their schedules, including the classes they are teaching, the rooms they are teaching in, and the times of their classes.and suggest any change of his/ her own schedule will be allowed by the system administrator (admin).
* The system should allow students to view their schedules, including the classes they are taking, the rooms they are in, and the times of their classes.
* Admin have to login the system by using username and password.
* Every teacher and student can also login into the website after providing the username as well as password.

Non-Functional Requirements :

Non-functional requirements are the criteria that describe how a system should behave, perform, or operate. They specify the qualities or attributes of the system.

Nonfunctional requirements of the developed CRMS are identified as below:

* The system should be user-friendly and easy to navigate.
* The system should have a secure login system to protect sensitive information.
* The system should be accessible from anywhere at any time.
* The system should be responsive and provide real-time updates.
* The system should have a backup and recovery system to ensure data is not lost in the event of a system failure.
* The system should be designed to be compatible with different devices, including desktops, laptops, and mobile devices.

Constraints:

Constraints refer to limitations or restrictions on the system being developed, which must be considered during the requirement analysis phase. These limitations can be related to various aspects of the system, such as time, budget, technology, legal and regulatory compliance, or organizational policies.

Constraints of the developed CRMS are identified as below:

* The system should be developed within a budget of $0.
* The system should be completed within 6th March 2023.
* The system should be compliant with data protection regulations and other legal requirements.

**2. Use Case Diagram :**



Teacher



Admin



Student

Figure : Use Case Diagram of the Proposed System.