**BRIEF REPORTS BASED ON THE STUDENT MANAGEMENT SYSTEM (SMS) PROJECT REQUIREMENTS:**

1. **Student Profile Management Report**

**Purpose**: To manage and maintain accurate records of student profiles.

**Key Features:**

* Create, Update, and Delete student profiles with personal and academic information.
* View Student Profiles by students and authorized staff.

**Outcomes:**

* Easy access to student data for both students and staff.
* Reliable storage and management of student records, reducing manual work.

1. **Subject Management Report**

* **Purpose**: To manage course information, ensuring up-to-date and accessible data for all users.

**Key Features:**

* + Create, Update, and Delete course information such as course ID, title, syllabus, prerequisites, and instructor assignments.
  + View Course Details: Students and staff can easily access course syllabi, prerequisites, and instructor information.
  + Ensure Accurate Data: The system guarantees that all course details are updated and accurate for all users.

**Outcomes:**

* Simplifies the process of course creation and management.
* Ensures students and teachers have the most current course details.
* Reduces errors related to outdated or missing course information.

**3. Enrollment Management Report**

**Purpose:** To facilitate and track student enrollment across courses and manage changes effectively.

**Key Features:**

* + Enroll and Withdraw from Courses: Students can enroll in or withdraw from courses.
  + Prerequisite Validation: The system enforces prerequisites to ensure students meet the necessary requirements before enrolling.
  + Manage Enrollment Status: Tracks waitlists, course capacity, and enrollment status for students.

**Outcomes:**

* + Streamlined course registration process.
  + Ensures students only enroll in courses they are eligible for.
  + Provides real-time updates to students and instructors on course enrollment status.

**5. User Authentication & Authorization Report**

**Purpose:** To manage secure login and access to the system based on user roles.

**Key Features:**

* + Role-Based Login: Different user roles (students, instructors, administrators) can log into the system with secure authentication.
  + Secure Data Access: Protects sensitive student and academic data using encryption and secure authentication methods.

**Outcomes:**

* + Secure access to student and academic data.
  + Minimizes the risk of unauthorized access.

**6. Non-Functional Requirements Report**

**Purpose**: To ensure the system performs efficiently, is scalable, reliable, and secure.

**Key Features:**

* **Performance:** The system should handle multiple users simultaneously, especially during peak times such as course registration.
* **Scalability**: The system should be able to grow as the number of students, courses, and enrollments increases.
* **Usability:** The interface should be simple and easy to use for students, instructors, and administrators.
* **Reliability:** Data integrity should be maintained to prevent data loss or duplication.
* **Security:** The system should provide strong security measures to prevent unauthorized access to sensitive data.
* **Availability:** The system should be available 24/7, with minimal downtime.

**Outcomes:**

* + Efficient performance even under high load, ensuring smooth user experience.
  + Flexible scalability to handle increasing user data over time.
  + Consistent uptime and data integrity, minimizing disruptions in access.
  + Secure environment for sensitive academic and personal data.

These reports cover the key aspects of the Student Management System (SMS), ensuring that each area of the system is well-documented and its features are clearly outlined for stakeholders