

# Develop a Requirements Traceability Matrix (RTM)

## **Must Have:**

- **Automated Appointment Scheduling:** Develop a system that allows patients to book, modify, and cancel appointments online.
- **Ensure the system automatically checks and updates calendar availability in real-time.**
- **Double Booking Prevention:** Implement mechanisms to detect and prevent overlapping appointments.
- These requirements are essential because they directly address the core problems of the current system: long wait times and double bookings.

## **Should Have:**

- **Real-Time Notifications:** Enable automated email and SMS alerts for appointment confirmations, cancellations, and updates.
- This requirement is important for improving patient communication and reducing no-shows, but the system can still function without it.

## **Could Have:**

- **Integrated Resource Management:** Connect the scheduling platform to existing hospital resource systems for seamless allocation of equipment and staff.
- While this would improve resource optimization, the core scheduling issues can be addressed without it.

## **Won't Have:**

- Redesigning clinical workflows or altering medical procedures.
- Overhauling non-IT operational processes unrelated to scheduling.
- Any enhancements outside the realm of scheduling, notifications, or resource visibility.
- These are explicitly stated as out-of-scope for the project.