

AI-Assisted Requirements Candidates – Clinic Appointment System

- Manual spreadsheet-based scheduling
- Doctors require buffer time between appointments
- Patients want SMS/email reminders
- IT team requires audit logs
- Medical details cannot be shared via SMS

Key Problems

- Scheduling is manual and spreadsheet-based
- No automated patient notifications
- Missing audit trail for compliance
- Privacy concerns with medical information transmission

Requirements Candidates Table

Requirement	Rationale	Source	Acceptance Criteria	Open Questions	Status
Replace manual spreadsheet-based scheduling with automated system	Current process is error-prone and time-consuming	Elicitation note #1	System allows scheduling without spreadsheets; all appointments stored in database	What is acceptable response time? Integration with existing systems?	Verifiable
System must support buffer time between appointments for doctors	Doctors need time to prepare, document, and transition between patients	Elicitation note #2	Configurable buffer time per doctor; system prevents back-to-back bookings	How long should buffer time be? Can it vary by appointment type?	Verifiable
System must send SMS reminders to patients	Reduce no-shows and improve patient attendance	Elicitation note #3	SMS sent 24 hours before appointment; delivery confirmation received	Timing of reminders? Opt-out mechanism? Cost considerations?	Verifiable

System must send email reminders to patients	Provide alternative notification channel for patients who prefer email	Elicitation note #3	Email sent 24 hours before appointment; delivery confirmation received	Same timing as SMS? What if email bounces?	Verifiable
System must maintain audit logs for all actions	Required for compliance and security monitoring	Elicitation note #4	All user actions logged with timestamp, user ID, and action type; logs retained per policy	Retention period? What level of detail? Who has access to logs?	Verifiable
Medical details must not be included in SMS communications	Protect patient privacy and comply with healthcare regulations	Elicitation note #5	SMS contains only appointment date/time/location; no diagnosis or treatment info	What about appointment type/specialty? Is that considered medical detail?	Verifiable
No automated patient notifications currently exist	N/A - This is a problem statement, not a requirement	Problem analysis	N/A	Should be reformulated as positive requirement	⚠️ Not a requirement
Missing audit trail for compliance	N/A - This is a problem statement, not a requirement	Problem analysis	N/A	Covered by audit log requirement above	⚠️ Not a requirement