

Mini Project Presentation on

"MedTrack: Unified Patient History Management System"

BATCH 7 TEAM MEMBERS

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Problem Statement



- 1. Fragmented Patient Records: Patient history is often stored in different systems across hospitals, making it difficult for doctors to access a complete medical record.
- 2. Inefficient Healthcare Delivery: Delayed access to comprehensive medical history results in repeated tests, misdiagnoses, and inefficient treatment planning.
- 3. Data Security Risks: Many existing systems are not fully secure, risking unauthorized access to sensitive patient data.
- 4. Lack of Interoperability: Hospitals use different formats and standards for storing patient data, making integration across systems challenging.





Existing System

- 1. Isolated Systems: Hospitals and healthcare providers maintain independent databases, with no streamlined way to share data across institutions.
- 2. Manual Record Sharing: Doctors often have to request records manually from other hospitals, leading to delays in treatment.
- 3. Inconsistent Data Standards: Varying data standards like HL7 and FHIR are not universally adopted, making automated integration difficult.
- 4. Limited Data Security: Many existing systems lack comprehensive encryption and privacy measures, increasing the risk of data breaches.

Proposed System

- 1. Centralized Platform: A unified web-based platform where doctors can securely log in to access patient histories from multiple hospitals.
- 2. Role-Based Access Control: Ensures that only authorized personnel (doctors, medical staff) can access or modify patient data.
- 3. **Data Integration**: Integration with existing hospital systems using standards like HL7 and FHIR to enable seamless sharing of patient records.
- 4. Enhanced Security: Full encryption of patient data, with detailed audit trails to track access and modifications for transparency.
- 5. **User-Friendly Interface**: Simple dashboard for medical professionals to search, view, and analyze patient histories quickly and efficiently.

Objectives

- 1. **Centralized Access**: Provide a single platform for doctors to access patient records from multiple hospitals.
- 2. Improve Healthcare Efficiency: Reduce delays in treatment by allowing instant access to comprehensive patient history.
- 3. **Ensure Data Security**: Implement strong encryption and data protection protocols to safeguard patient information.
- 4. **Promote Interoperability**: Ensure seamless data exchange between hospitals using common standards like HL7 and FHIR.
- 5. **Provide Transparency**: Maintain audit logs for all interactions to ensure accountability and trust.

THANK YOU