

Systems Integration and Architecture 1

Group 1 – HealthTech: Integrating Hospital Information Systems (HIS)

SCRIPT

SLIDE 1 Gimenez: Good Day Everyone! Today we're presenting about our topic and that is the HealthTech: Integrating Hospital Information Systems (HIS)

SLIDE 2 Gimenez: HealthTech is a consulting firm that supports community hospitals in enhancing sustainability, compliance, and profitability. They offer expertise in executive search, technology, and hospital operations, providing consulting services and educational webinars to optimize performance. Additionally, they specialize in Hospital Information Systems (HIS) to improve data management and patient care.

SLIDE 3 Pablo: This is the Software or Applications use in HealthTech:

1. Optimum Productivity Toolkit - The Optimum Productivity Toolkit is a cloud-based solution for managing hospital labor, featuring tools for financials, productivity, supply chain, and analytics. It helps executives and managers optimize workflows and align staff with demand.
2. eHospital - eHospital, It offers features like appointment scheduling, electronic patient records, and access to medical history and lab results to streamline patient care.

Castillo:

3. SoftClinic HS - SoftClinic HIS is an open-source hospital information management system. It manages hospital operations from electronic health records to patient interfaces without documentation.
4. Intelligent Medical Software (IMS) - a hospital management system suitable for medical facilities of all sizes, offering features like billing and practice management.

SLIDE 4 Chandiramani: This is the Key Problems in HealthTech:

- Data Silos: Data silos restrict access to information across departments, leading to incomplete patient records and fragmented care, which hampers healthcare efficiency.
- Interoperability Issues: Varied data formats and standards across systems complicate integration and sharing, causing inefficiencies and potential errors in patient care.
- Data Privacy & Security: Sensitive health information is governed by strict regulations, such as HIPAA in the U.S., to protect patient privacy.
- Data Quality & Consistency: Integrating data from multiple sources can lead to inconsistencies, errors, and duplicates, complicating decision-making and affecting patient care.

SLIDE 5 Labeste: Now these are the Solutions in HealthTech that will solve the problems

- Data Silos: Technologies are needed to unify various data sources into a cohesive repository.
- Interoperability Issues: Addressing interoperability is crucial for improving the efficacy and security of healthcare services.
- Data Privacy & Security: Maintaining data privacy and security during integration is essential for preserving patient trust and preventing breaches.
- Data Quality & Consistency: APIs can incorporate algorithms for data transformation and validation to ensure quality and consistency before integration.

SLIDE 6 Moralde: Now these are the Results in HealthTech that will solve the problems

- Data Silos: APIs can break down healthcare data silos by connecting patient data stored on multiple platforms, enabling seamless data exchange between systems like EHRs and laboratories.
- Interoperability Issues: APIs standardize data interchange methods, facilitating communication between different systems.
- Data Privacy & Security: APIs offer strong encryption and authentication methods, ensuring secure data transmission.
- Data Quality & Consistency: APIs can enforce guidelines for data formats and fields, modifying data to meet receiving system requirements, which ensures accuracy and consistency for better clinical decision-making.

Slide 7 Moralde: And that concludes our report about HealthTech: Integrating Hospital Information Systems or (HIS)