Product 2: Healthcare EMR Software System

Healthcare EMR Software Research Report

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By: Richa Anilkumar Yadav

1. Data Collection

Hospital Name	Current EMR System	Core Features	Challenges	Missing Features
Sunshine Global Hospital	MedSys EMR	Lab integration, billing, patient history, and appointment scheduling	Not easily expandable to accommodate more patient data; interface problems during a high usage period	AI reporter for telemedicine, multilingual support, and prediction
Sterling Hospital	Greenway Health	Patients 'information management, EHR sharing, billing	High expenses of operation; slow system updates	Pharmacy retail integration, better analysis
Bhailal Amin General Hospital	Practo Ray	Patients records, pathology results, billing	Limited coordination with external laboratories	Sharing facts in real time with experts

Shreeji Hospital and ICU	In-House Software	Schedule an appointment, health history	Old design; No mobile app	An application for physicians, speech recognition for transcription
Bankers Heart Institute	Kareo EMR	Appointment / Reminder Follow up, Billings, and Reports	Non-customizable reports	Assessment of patient risks by AI

2. Gap Analysis

Common Challenges Identified

1. **Scalability Issues**
   - Many systems have issues with scalability both in terms of constantly growing patient data or large scale practicing.

2. **Integration Gaps**
   - Current solutions have reduced with the laboratories, pharmacies or other hospitals.

3. **High Operational Costs**
   - There are some hospitals that struggle due to high charges for licensing and for upgrades too.

4. **Data Security Concerns**
   - Problems with insufficient encryption and data loss risks.

5. **Regulatory Compliance**
   - System is not always compliant with Ayushman Bharat Digital Mission (ABDM).

Features Missing Across Systems

- **AI/ML Capabilities**: Risk assessment for patients and diagnostics by means of predictive analytics.

- **Multilingual Support**: Necessary for catering to patients speaking Gujarati, Hindi, and English.

- **Telemedicine**: Video consultations, remote patient monitoring, and integration with wearable devices.

- **Mobile Accessibility**: Electronic Medical Records (EMRs) for doctors that can be accessed through the web and on portable devices.

- **Customizable Reporting**: Making of dynamic reports for patients, department or treatment type.

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3. Recommendations for Upcoming EMR Software

- **AI-Driven Diagnostics**: Use artificial intelligence equipment in the analysis of diseases and enhance results of the patients.

- **Seamless Integration**: Facilitate seamless integration with mobile devices, pharmacies, and labs.

- **Focus on Security**: Incorporate ABDM compliance, role-based access control, and enhanced encryption.

- **Enhanced Usability**: Develop an easy to use user interface and support multiple languages.

- **Mobile Solutions**: Develop and implement mobile applications for quick data access by the doctors and the staff.