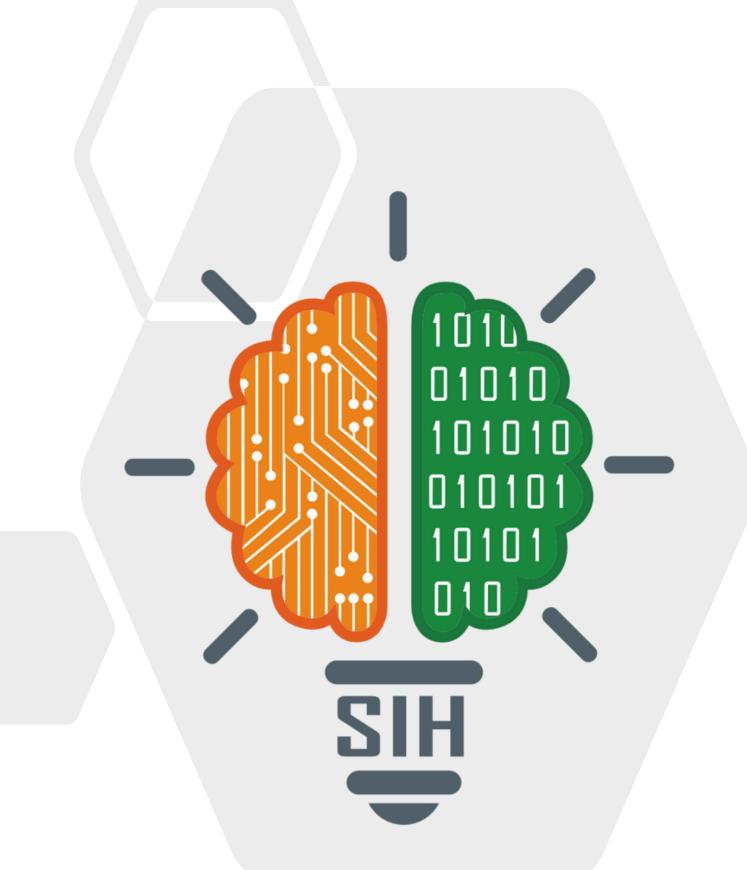
TITLE PAGE



- Problem Statement ID 1626
- Problem Statement Title- Health Data Information &
 Management System Mobile Application (HDIMS)
- Theme- MedTech / BioTech / HealthTech
- PS Category- Software
- Team ID-
- Team Name (Registered on portal)

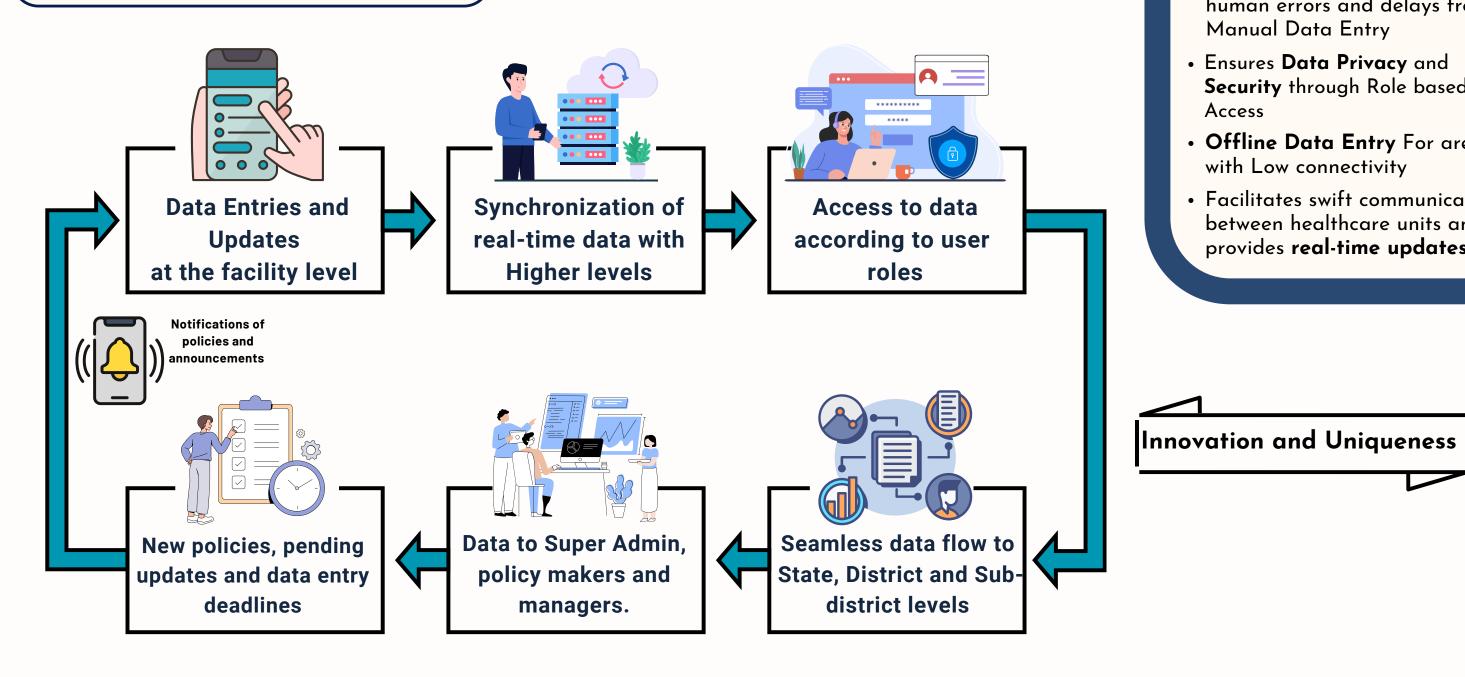




Health Data Information & Management **System Mobile Application (HDIMS)**



Workflow



- Automated system minimizes human errors and delays from Manual Data Entry
- Ensures Data Privacy and **Security** through Role based Access
- Offline Data Entry For areas with Low connectivity
- Facilitates swift communication between healthcare units and provides real-time updates.

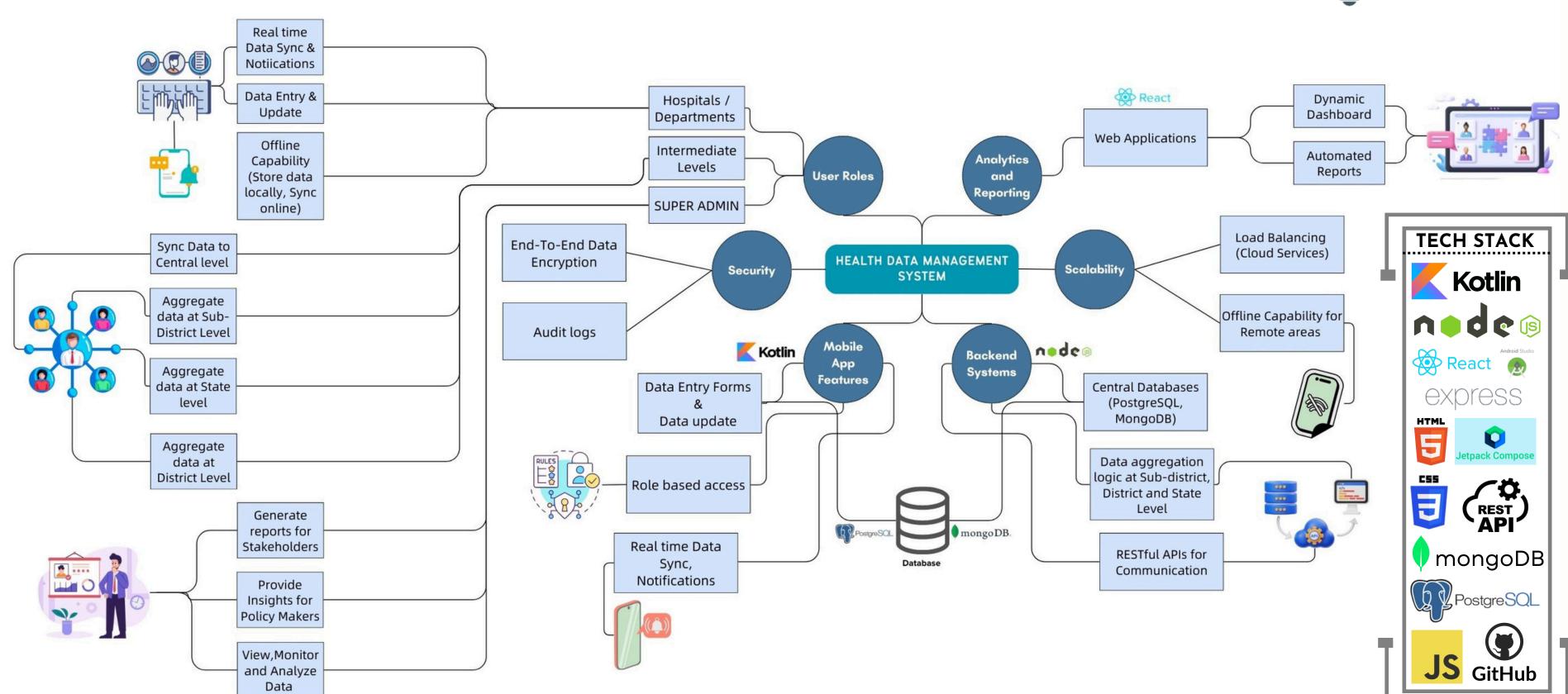
Problems and Solutions

- Mobile-First Approach: Realtime data entry with offline access for low-connectivity areas.
- **Cross-Platform Integration:** Seamless functionality across mobile and web using Kotlin and React.
- Role-Based Access: Provides secure, tailored access for different users.



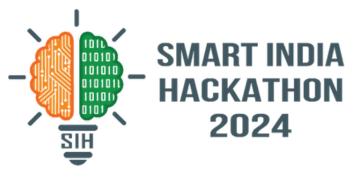
TECHNICAL APPROACH







FEASIBILITY AND VIABILITY



Analysis and Feasibility

- Technical Feasibility The required technology (Kotlin, MongoDB) is available and supports integration with hospital systems.
- Operational Feasibility Adoption is straightforward with minimal training; it reduces paperwork and enhances workflows.
- User Adoption High potential due to its user-friendly interface and the trend toward digital healthcare solutions.
- Legal Feasibility Complies with healthcare regulations through secure data handling.

Potential Challenges and Risks

- **Data Security** Ensuring robust protection against breaches and compliance with regulations.
- System Integration Potential difficulties in aligning with existing hospital systems.
- **User Adoption** Resistance to change or difficulty adapting to the new system.
- Technical Reliability Managing and resolving potential software bugs or issues.

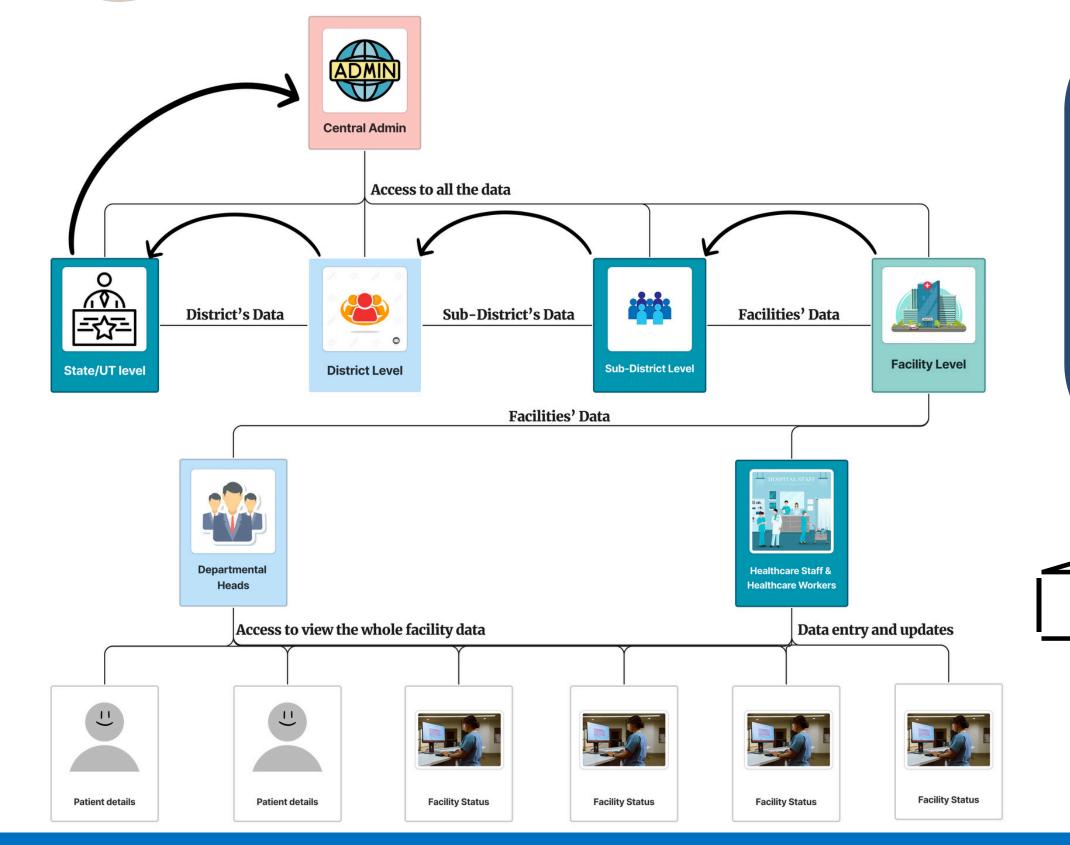
Strategies to Overcome Challenges

- Data Security: OAuth for delegated authorization and secure third-party access.
- System Integration Use flexible REST APIs and REST API management platforms (e.g., Postman, Swagger).
- User Adoption User guides and manuals to facilitate user adoption / Training sessions by hospitals.
- Technical Reliability Perform thorough testing, deploy regular updates and use Version control systems (e.g., Git).



IMPACT AND BENEFITS





- Hospital Staff Faster access to patient data, improving care delivery.
- Hospital Administrators Better operational management and decision-making.
- Public Health Officials Realtime data for monitoring and informed policymaking.
- Patients Better access to health data, improving healthcare experience.

Benefits of the Solution

Potential Impact on Target Audience

- Paperless Workflow Reduces paperwork and streamlines operations.
- Real-Time Monitoring Enables public health officials to track trends.
- Increased Efficiency Faster data access and management.
- Cost Savings Automation and reduced paperwork lower hospital expenses.



RESEARCH AND REFERENCES



Links for References

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- https://www.researchgate.net/figure/E volution-of-the-health-datamanagement-system_fig4_341051199
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Research Work

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