SMART INDIA HACKATHON 2025

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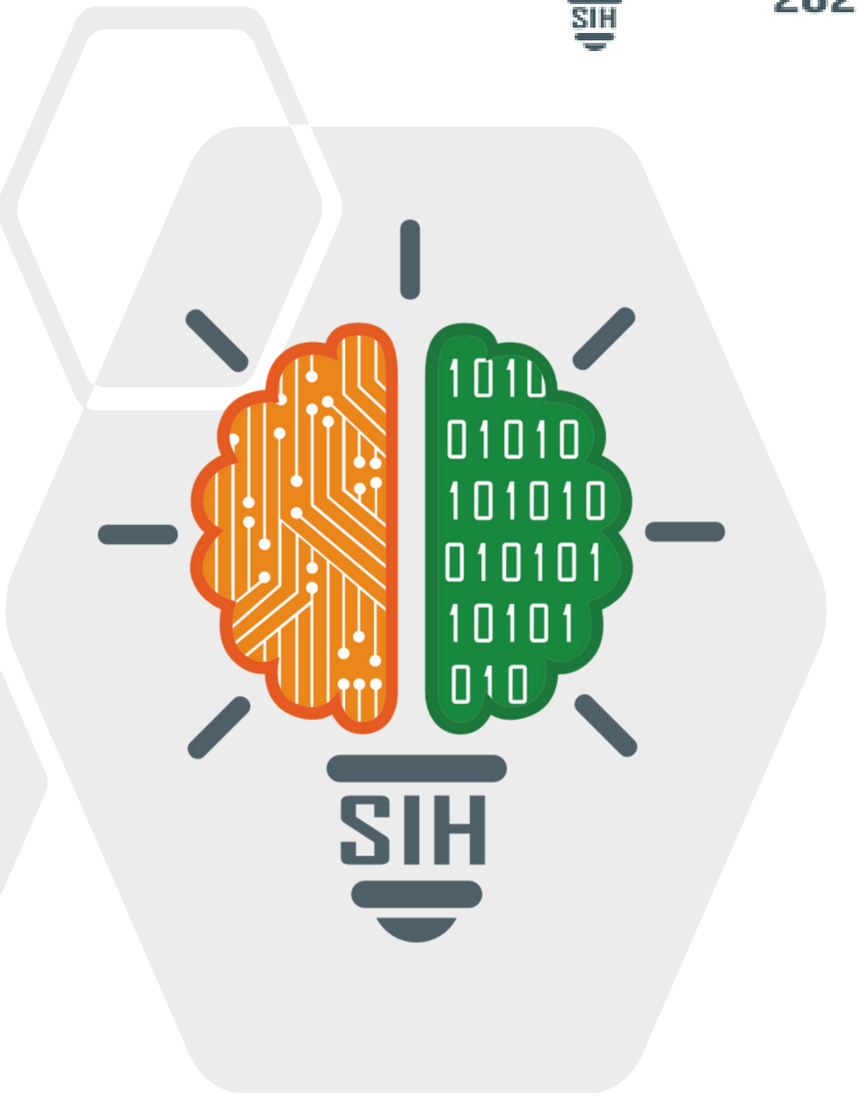
- **Problem Statement ID –** SIH25023
- **Problem Statement Title -** AyurSutra- Panchakarma Patient Management and therapy scheduling Software
- **Theme-** MedTech / BioTech / HealthTech
- **PS Category-** Software
- **Team ID-** 83159
- **Team Name-** Team_Agni_RCP_02



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AyurSutra

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Idea/Solution/Prototype

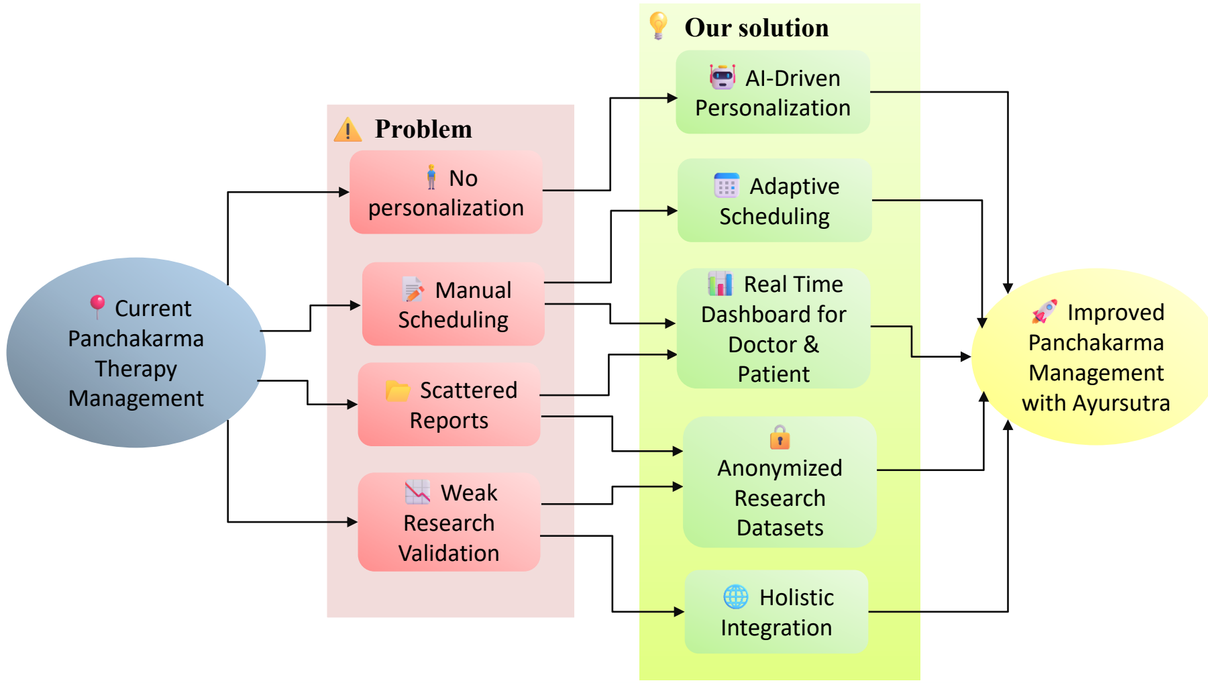
- **A smart panchakarma platform –** Single system that helps with therapy management, digitalized records, scheduling automation.
- **Ai-powered personalization –** Recommend individualized treatment plans, ai/ml will examine feedbacks and symptoms.
- **Real-time progress tracking –** Using user-friendly dashboards, patients & doctors can monitor progress.

Solution Approach

- **An Automated Scheduling –** AI plus rules will decide best session timings, practitioner allocation and resource use.
- **Multi-Channel Reminders –** The Patients will get SMS, app and email notifications for what to do before and after therapy.
- **Therapy Tracking Dashboard –** It Tracks live session data, vitals and whether the patient is following the treatment.
- **Feedback-Driven Adjustments –** If the patient reports issues or side effects then system automatically adjust the therapy plans.

Innovation & Uniqueness

1. **Personalized Care –** A Custom recovery based on dosha type , feedback and progress.
2. **Visual Progress Tools –** An Easy to read graphs & dashboards showing the health improvements.
3. **An Adaptive Scheduling –** If a patient misses steps or reports problems then system automatically reschedules.
4. **Research Support –** It will Provides anonymous data to AYUSH & AIIA for validating Panchakarma effectiveness.



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TECHNICAL APPROACH

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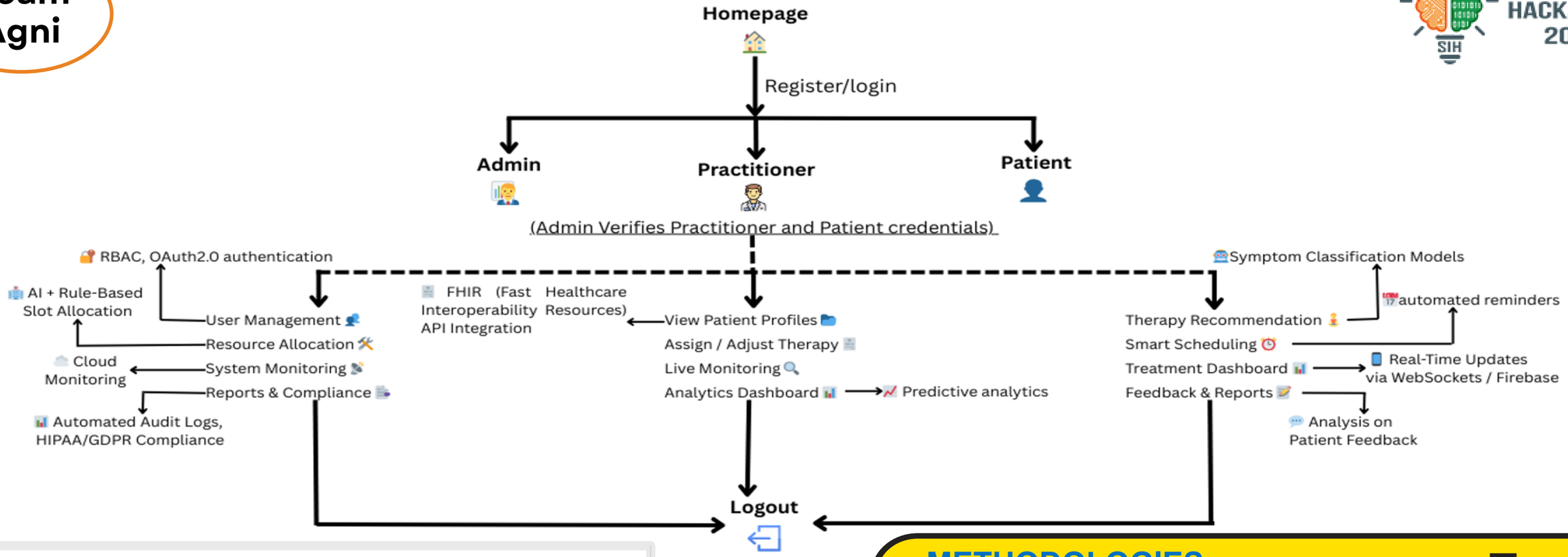

TECH STACK

React · MongoDB · Node.js · FastAPI · Twilio · Postman · Stream · Cloudinary · Gemini · Clerk

METHODOLOGIES:

- **NLP Analysis –** It Understands symptoms, improvements and side effects.
- **Symptom Classification –** It Maps symptoms or dosha imbalance & will give best therapies.
- **Recommendation Engine –** Also Schedules personalized therapies.
- **Predictive Analytics –** Forecasts the progress and adjusts milestones.
- **Anomaly Detection –** Monitors risks and the safety.

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FEASIBILITY AND VIABILITY

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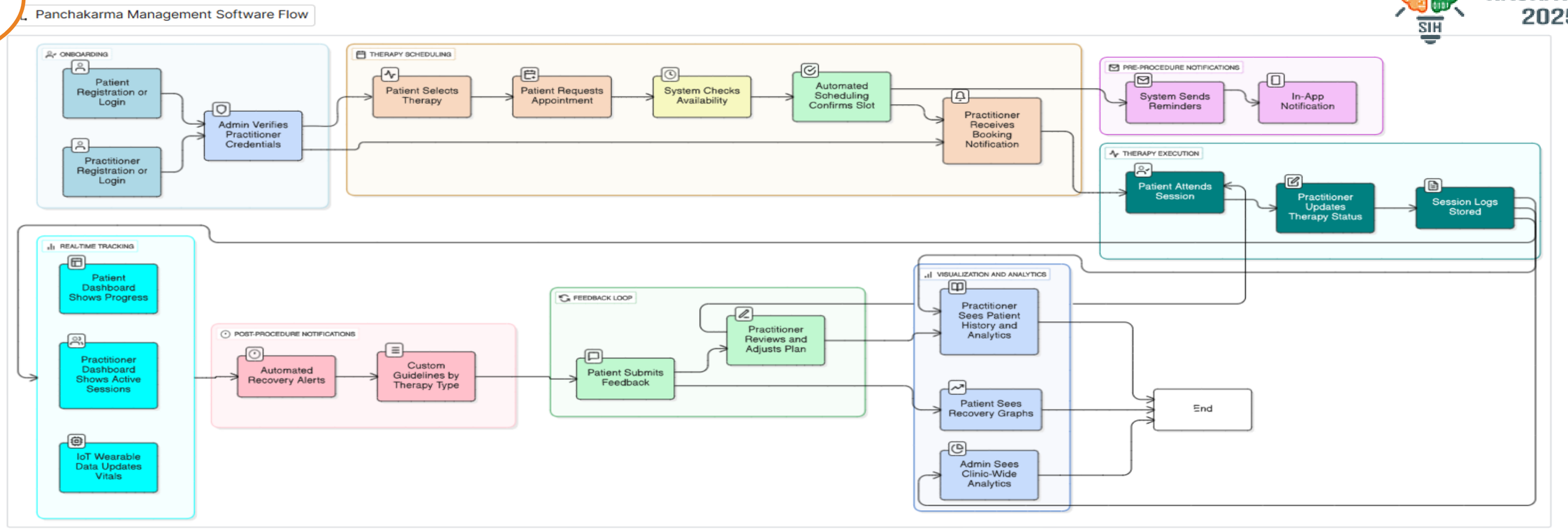

Feasibility Analysis

- **Technological Feasibility:** SMS or Email via Twilio, AWS SNS, FCM.
- **Operational Feasibility:** Simple adoption , reduces manual scheduling.
- **Economic Feasibility:** less errors, lowers operational costs.
- **Market Size:** Ayurveda market USD 16B (2026), thousand of clinics , 1 % share big business.

Potential Challenges & Risks

- **Adoption Resistance:** Preference for manual methods.
- **Data Privacy & Security:** Compliance with HIPAA / Indian Data Protection.
- **Integration Challenges:** Existing hospital systems.
- **Connectivity Issues:** Limited internet in rural area.
- **Scalability:** Performance bottlenecks with big data.

Overcoming challenges

- **Liability & Disclaimer :** Mitigated with disclaimers, audit logs, and practitioner validation.
- **Connectivity Issues :** Offline-first approach Data stored locally and synced when online.
- **Seamless Integration:** Our system uses standardized APIs that means we can plug and play with any existing clinic software .

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IMPACT AND BENEFITS

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Effective Impact

What Target Achieves??

✅ Less work for people to do

- Patients will never miss therapy even if they forget or busy, due to auto-rescheduling feature.
- Step by step instructions and remainders for pre & post care helps to get better health outcomes.

✅ Growth of market

- Panchkarma software can gain a sizeable market share due to digitalized therapy management.
- Promote transparency and data driven progress tracking which foster trust among patients.

✅ Citizens/Healthcare Beneficiary.

- Personalised treatment plans, digital reports and remainders decrease rate of missed appointments.

Benefits

SOCIAL

- Reduces the treatment errors by standardized the digital workflows.
- Enhances health outcomes through the personalized treatment tracking.

ECONOMICAL

- Reduces an operational costs automated administrative processes
- Increases a clinic revenue by 20-30% through optimized patient capacity

ENVIRONMENTAL

- Eliminate the paper usage across all clinical documentation processes.

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RESEARCH AND REFERENCES

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- DoctorsApp. (n.d.). Comprehensive EMR solutions for Panchakarma patient management. Retrieved September 10, 2025, from (https://www.doctorsapp.in/emr/panchakarma-patient-management-system)

- AyurGrid. (2024, December 31). Empowering healing of Panchakarma therapy with AyurGrid. Retrieved September 10, 2025, from (https://ayurgrid.com/empowering-healing-of-panchakarma-therapy-with-ayurgrid)

- Panchkaram. (2023, August 27). Enhancing Panchakarma centers with digital technology: A path to holistic healing. Retrieved September 10, 2025, from (https://www.panchkaram.com/blog/enhancing-panchakarma-centers-with-digital-technology-a-path-to-holistic-healing)

- Neonatal Surgery Journal. (2025). Exploring integrative models of Panchakarma therapy in public health care delivery [PDF]. Retrieved September 10, 2025, from https://www.jneonatalsurg.com/index.php/jns/article/download/8774/7803/28165