

# “SAMVED” HACKATHON 2026

- **Problem Statement ID** –PS-002
- **Problem Statement Title-** Smart Health Solutions for Solapur Municipal Corporation
- **Theme-** Smart Healthcare systems
- **Team ID-**30FE4DBF
- **Team Name-** HackHers



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# MEDIBRIDGE AI- SMART HEALTH CARE ACCESS PLATFORM



## ❖ Proposed Solution

### Detailed Explanation:

- Enables easy online doctor appointment booking.
- Integrates doctor discovery and digital health records.
- Allows report uploads, reminders, and emergency support access.

### How it Addresses the Problem:

- Minimizes treatment delays.
- Makes healthcare access faster and more organized.

### Innovation and Uniqueness:

- Combines booking, digital records, and healthcare guidance in one platform.
- Provides a socially impactful healthcare solution.

- **Frontend:** Developed using React.js to create a user-friendly interface.
- **Backend:** Built using Node.js and Express.js to handle business logic and APIs.
- **Database:** MySQL/MongoDB used to store user and appointment data.
- **Security:** JWT authentication and password encryption implemented.
- **Testing:** Unit and integration testing performed.
- **Deployment:** Application deployed on a server for user access.

## Analysis of Feasibility:

- The solution is feasible as it uses existing web and AI technologies.
- Online appointment systems and AI guidance can be implemented with current tools and databases.

## Potential Challenges and Risks:

- Accuracy of symptom-based recommendations.
- Data privacy and security concerns.
- Limited internet access in rural areas.

## Strategies to Overcome Challenges:

- Continuously improve AI recommendations using medical datasets.
- Provide lightweight and mobile-friendly platform versions.
- Partner with clinics and healthcare providers for adoption.

## Potential impact on the target audience:

- Helps patients quickly find the right doctor and receive timely treatment.
- Improves healthcare access, especially for rural and underserved communities.
- Saves time and reduces stress in medical decision-making.

## Benefits of the solution:

- Social: Improves healthcare accessibility and awareness for all users.
- Economic: Reduces unnecessary hospital visits and saves travel costs.
- Environmental: Promotes digital records, reducing paper usage in healthcare systems.

## Details / Links of the reference and research work:

### Research & Academic References:

- <https://arxiv.org/abs/2412.12538>
- <https://www.onlinescientificresearch.com/journals/jaicc/articles/aipowered-online-symptom-checkers-enhancing-accuracy-and-guiding-users-to-appropriate-medical-care.html>

### Articles & Industry Insights:

- <https://www.oxfordcorp.com/en/insights/blog/self-diagnosis-using-ai-implications-for-health-systems-and-patients>
- <https://www.doctronic.ai/blog/10-benefits-of-artificial-intelligence-in-healthcare/>