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- **Problem Statement ID: SIH1626**
- **Problem Statement Title: Health Data Information & Management System Mobile Application (HDIMS)**
- **Theme: Healthcare and Biomedical Devices**
- **PS Category: Software**
- **Team Name: Power Nappers**

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Health Data Information & Management System (HDIMS)

❖Proposed Solution

A mobile application aimed at providing a comprehensive health data management system for patients and healthcare providers. It facilitates 24x7 access to primary care, medical records, and personalized health recommendations.

❖ How it addresses the problem

- Streamlines health data collection and management.
- Provides real-time access to health information for patients and doctors.
- Enables remote monitoring and AI-driven medical advice.

Innovation and Uniqueness:

- AI-powered health insights and diagnostics.
- User-friendly interface with seamless integration of various health data sources.

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TECHNICAL APPROACH

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❖ Technologies to be used

- Programming Languages: Python, JavaScript
  - Frameworks: TensorFlow for AI, React Native for mobile app development
  - Hardware: Smartphones, wearable health devices (optional)

❖ Methodology and Process for Implementation

- Integration of AI-based diagnostic tools with real-time health data monitoring.

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FEASIBILITY AND VIABILITY

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Feasibility Analysis:

- High feasibility due to existing technologies and platforms.
- Scalable and adaptable for future healthcare innovations.

Potential Challenges and Risks:

- Data privacy and security concerns.
- Integration with various healthcare systems.

Strategies for Overcoming Challenges:

- Robust encryption for data security.
- Collaboration with healthcare providers for seamless integration.

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IMPACT AND BENEFITS

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Potential Impact:

- Empowering patients with direct access to health data.
- Reducing the burden on healthcare systems with AI-driven diagnostics.

Benefits:

- Social: Improved healthcare accessibility.
- Economic: Cost reduction in healthcare delivery.
- Environmental: Paperless health records management.

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RESEARCH AND REFERENCES

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- Details / Links of the reference and research work