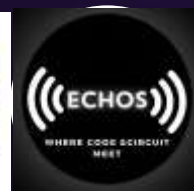# J.B.INSTITUTE OF ENGINEERING AND TECHNOLOGY

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CODE HUB
LOGIC | CONDITION() | RETURN;

ECHOS
WHERE CODE SCIRCUIT MEET

DATA WRANGLERS

MACHINE LEARNING MAVERICKS
Innovate, Learn, Achieve, Excel

COMPUTER SOCIETY OF INDIA
ESTD. 1965

TEAM DETAILS

1 **Selected Track** - **Health care and Medical**

2 **Problem Statement Title -** Delayed diagnosis of diseases like cancer, diabetes, heart ailments, and thyroid issues increases treatment costs and reduces survival rates.

3 **Team Name** - Code Cortex

4 **Team Lead** - Khateeb Arif Parvez

5 **Dept. Name** - AIML (3rd year)

IDEA TITLE

- **<u>Proposed Solution (</u>**HealNet AI – Assistance for Your Better Health**)**

- HealNet AI is an AI-based health assistant that analyzes user symptoms and provides early guidance with personalized recommendations.
- Helps detect diseases early, offers timely advice, and reduces delays in diagnosis through AI-driven health insights.

- **Innovation & Uniqueness:**

  Real-time Ai health analysis & chat assistant,
  Personalized suggestions using family and lifestyle

TECHNICAL APPROACH

Technologies Used:
Frontend: HTML, CSS, JavaScript
Backend: Node.js, Express.js
AI Integration: OpenAI / Deepseek APIs
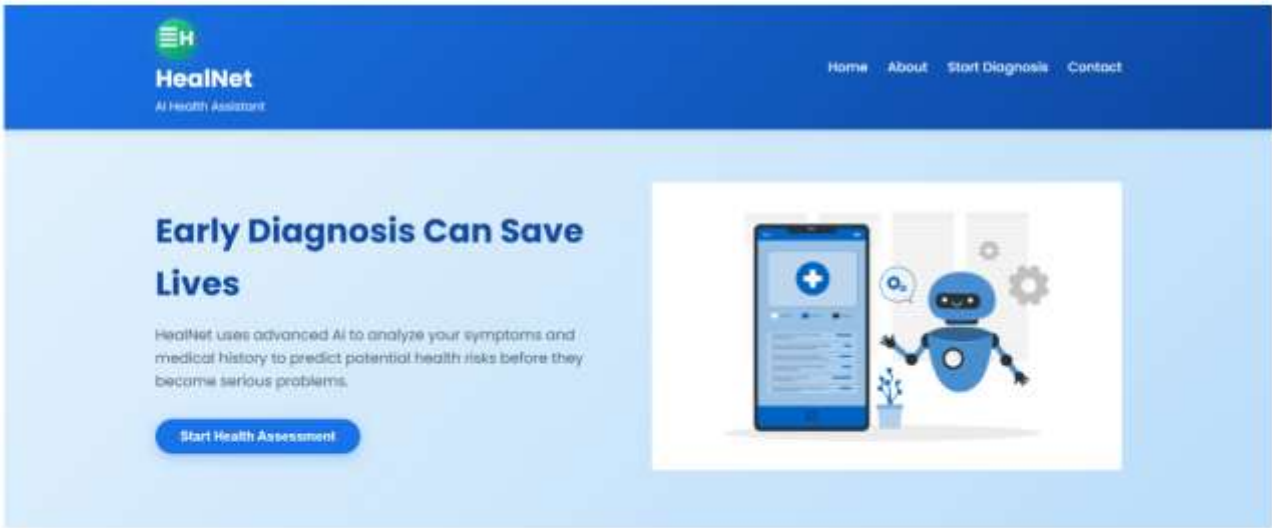**Database:** MySQL
Development Tool: Visual Studio Code

Methodology / Process:
- User enters basic details (Name, Age, City, Profession).
- User inputs health symptoms.
- AI analyzes symptoms and medical history.
- Personalized recommendations and possible health risks are shown.
- User is redirected to the AI Chat Assistant for further advice.

Expected Output :-

Your Health Assessment Results

High Health Risk

Your health profile indicates several risk factors that require attention. We recommend consulting with healthcare professionals promptly.

Potential Health Considerations

- Cardiovascular issues
- Mental health considerations

Health Recommendations

- Increase physical activity to at least 150 minutes per week of moderate exercise
- Practice stress management techniques like meditation or yoga
- Schedule a comprehensive health check-up with your primary care physician
- Stay hydrated by drinking adequate water throughout the day
- Maintain regular health check-ups and screenings appropriate for your age and gender

AI Health Assistant

I've analyzed your health assessment. Here's what I understand about your situation: - Age: 45 - Key Symptoms: fatigue, chest_pain, shortness_breath, anxiety, depression... - Lifestyle: sedentary activity level, high_meat diet - Medical History: hypertension, asthma I'm here to help answer any questions you have about your health results, provide general wellness information, and discuss healthy lifestyle choices. What would you like to know?

AI Assistant ➡

AI Health Assistant

I've analyzed your health assessment. Here's what I understand about your situation: - Age: 45 - Key Symptoms: fatigue, chest_pain, shortness_breath, anxiety, depression... - Lifestyle: sedentary activity level, high_meat diet - Medical History: hypertension, asthma I'm here to help answer any questions you have about your health results, provide general wellness information, and discuss healthy lifestyle choices. What would you like to know?

tell me tips and exercises so i can gain back into a healthy person

Certainly, John! Here's a structured and supportive plan to help you transition into a healthier lifestyle, considering your specific health context: --- **Immediate Medical Consultation:** - **Chest Pain and Shortness of Breath:** These symptoms could indicate

Ask me anything about your health results... | Send

Next Steps

Based on our analysis, we recommend:

- Schedule an appointment with your healthcare provider within the next week
- Consider consulting with relevant specialists based on your symptoms
- Keep a health journal to track any changes in your symptoms
- Follow up with recommended screenings and tests

FEASIBILITY AND VIABILITY

HealNet AI is simple, reliable, and easy to deploy. It uses basic web technologies and open-source tools, making it cost-effective and practical for real-time use.

Challenges & Risks:

- Sufficient medical data for wider prediction accuracy.
- Need for continuous improvement of AI responses.

Strategies to Overcome:

- Gradual data expansion and testing with sample inputs.
- Regular fine-tuning to improve accuracy and user experience.

IMPACT AND BENEFITS

Potential Impact:

HealNet AI empowers users with early health insights, increasing awareness and reducing treatment delays. It encourages proactive healthcare management.

Benefits:

- Early detection and preventive care.
- Reduced dependency on immediate doctor visits for minor symptoms.
- Accessibility to health guidance for all demographics.
- Social impact through awareness and preventive healthcare.

Team Member's Information

Team Leader Name: (Khateeb Arif Parvez)

Year: 3rd   Department: AIML   Roll Number: 23671A7378

Team Member 1 Name: (M Durga Prasad)

Year: 3rd   Department: AIML   Roll Number: 23671A7383

Team Member 2 Name: (D Himagnan Reddy)

Year: 3rd   Department: AIML   Roll Number: 23671A7369

Team Member 3 Name: (M Kalyan)

Year: 3rd   Department: AIML   Roll Number: 23671A7386

GUIDELINES

1	Please keep the number of slides as minimum as possible.
2	Present your ideas in bullet points, avoiding lengthy paragraphs.
3	Ensure clear and concise explanations for easy understanding.
4	Omit any form of code from the abstracts.

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