



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

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SECP 1513 Technology & Information System

Section **04**

PROJECT: Design Thinking (Proposal)

Title: Artificial Intelligence

Group 1 : Tech Titans

Team Members:

1. SAMIN SARWAT A22EC4040
2. MARIAM HANIF A22EC4034
3. MOHAMMAD AREEB A22EC4035
4. AHMAD RAZAN ALKHAWARIZMI A22EC4024
5. AINNUR ASHIKIN A23CS0208
6. CHOONG CHEE WAH A23CS5004
7. MUHAMMAD NABIL KINDANGEN A22EC4038

Proposal: AI-Assisted Healthcare Solutions for Basic Disease Management and First Aid

1. Client Background:

Client name:Lazz Pharma Bangladesh

Our customer is a top healthcare company. They aim to provide easy and effective medical services to many different patients. Because people need fast and trusted healthcare solutions, our client wants to use new ideas. They want to integrate artificial intelligence (AI) into their current systems.

2. Existing Technology/Tool/Method/Solution/System Summary:

The client relies on a traditional system of medical diagnosis methods and manual processes for addressing basic diseases and providing first aid. The system lacks real-time data analysis capabilities, which can delay responses and limit the precision of suggested treatments.

3. Problem with Existing Technology/Tool/Method/Solution/System:

The primary challenges with the current system include:

- Time Delays: Providing timely medical aid may be delayed by manual diagnosis and decision-making processes.
- Limited Data Utilization: In order to provide more precise and customized recommendations, the system is unable to fully utilize the patient data that is currently accessible.
- Scalability Issues: The present system may not be able to handle a high number of patient inquiries at once when the demand for healthcare services increases.

4. Proposed Idea/Solutions:

Our proposed solution involves the integration of AI technologies into the existing healthcare framework. This includes:

- AI-Powered Diagnosis: Implementing machine learning algorithms to analyze patient data for quicker and more accurate basic disease identification.
- Personalized Medicine Recommendations: Utilizing AI to suggest personalized basic medication plans based on individual patient history, genetic information, and current health conditions.
- First Aid Chatbot: Introducing a conversational AI chatbot capable of providing immediate first aid guidance for common injuries, cuts, and wounds.

5. Benefits/Advantages from the Proposed Idea/Solutions

- Faster Response Times: AI-driven diagnosis ensures quicker response times, which is crucial for time-sensitive medical conditions.
- Improved Accuracy: The precision of disease diagnosis and medication recommendations is improved by machine learning algorithms.
- Enhanced Patient Experience: Personalized basic medicine plans and immediate first aid guidance contribute to a more positive and empowering patient experience.

- Scalability: Without sacrificing effectiveness, the suggested AI solutions can readily develop to accommodate the rising demand for healthcare services.
- Cost Efficiency: Long-term cost savings from the automation of some activities with AI can enable more efficient use of available resources.