Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	Team-593101
Project Name	Project - Disease Prediction Using Machine Learning
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In today's fast-paced world, the constraints on time have led to delayed healthcare visits, even in the presence of severe symptoms. Traditional online symptom searches often provide generic and unreliable results, contributing to a lack of trust in self-diagnosis. Patients need a more accurate and efficient way to assess their health concerns without compromising their busy schedules.
2.	Idea / Solution description	A machine learning model capable of predicting up to 42 diseases based on input symptoms.

		Users can input their symptoms into a web application to receive probable disease predictions. The model can be used by both doctors for online consultations and patients for preventive diagnosis and self-care.
3.	Novelty / Uniqueness	The model offers a comprehensive solution by predicting a wide range of 42 diseases. It doesn't ask for personalized data, ensuring privacy. The focus on preventive diagnosis and self-care distinguishes it from generic symptom search engines.
4.	Social Impact / Customer Satisfaction	Enables timely and convenient healthcare access, especially for those who might delay or avoid traditional doctor visits. Promotes early detection and encourages self-care.Users can access the service anytime without revealing personal details, making it user-friendly. It empowers individuals to make informed decisions about their health
5.	Business Model (Revenue Model)	Potential revenue streams could include subscription-based services for premium features, partnerships with healthcare providers for online consultations, or sponsored content from pharmaceutical companies. Monetization without compromising user privacy is crucial.

6.	Scalability of the Solution	The model's scalability relies on the efficiency of the machine learning algorithms and the web application infrastructure. As user numbers grow, the system should handle increased demand seamlessly. Regular updates to the model based on evolving medical data ensure its relevance over time. Maybe eventually increase the number of diseases and symptoms the model in predict and take as input respectively.