Project Design Phase-I
Proposed Solution Template

Date	3 November 2023
Team ID	592988
Project Name	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)	How can we predict the diseases by knowing the symptoms and how this model can be helpful for both users(patients) and the doctors?
2.	Idea / Solution description	This is a model where the disease name can be predicted if given the symptoms as the input. We use a machine learning algorithm to identify which is the disease with the given symptoms name. After the user(patient) gives his/her symptoms and model will predict a disease according to that the patient will know their

		health problem much in advance before consulting a doctor or can avoid doctor offline consultation. The doctors can see the result and treat the patients accordingly without any time lag and accuracy. So, it is both useful for the users and the doctors.
3.	Novelty / Uniqueness	This model is unique in terms of its wide variety and ability to accept various symptoms ranging from severe to mild symptoms also, so that all the problems of the users will be covered and taken into consideration. Up to 42 different diseases can be predicted by this model.
		This model is very accurate and reliable to all the users and health professionals. The amount of time that will take for communication between both of them will also drastically decrease and be more precise.
		And also, in this model, the user's personal details are not going to asked at any point of time and their health searches will be saved and not be shared with any other user by any chance. So security is guaranteed and can be confidential.

4.	Social Impact / Customer Satisfaction	People often tend to not try about knowing their health conditions, they tend not to seek medical help after observing their symptoms and often not to go the doctors offline because of the money constraints or the time that it takes for the consultation. Hence the time taken for the medication also increases and does not take place at the right time the body needs. So, this model is going to change this problem. Using this they can know what disease are they suffering this and this can be done from their house without any cost. And it also takes very less time for this process to complete. With this every person can be self-conscious about their health and not depend completely on professionals.
5.	Business Model (Revenue Model)	We have to spend money on the advertisements mostly because the model has to reach a large number of people. We have to also give money to the health professionals so that they can recommend this model so that the users will use it from the next time. The users will have to pay very minimum amount of money to use this model and the reason behind this is we are doing this for a

		social cause and this cannot be kept for a higher money. And they have to pay for accessing the consultation of a doctor on a once in a week basis.
6.	Scalability of the Solution	We will increase the number of diseases that can be predicted from 42 to many more so that the adaptability and scalability will be increased. We can also update the algorithm we use to fasten the model results.