

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID35656
Project Name	Analytics for Hospital Healthcare Data
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>Analysis of the data can be very helpful. Medical organisations must make sure that the data they collect is put to good use. It is essential to pick the appropriate analytical technique for the healthcare industry due to the uniqueness of data.</p> <p>On the contrary, depending on the scale of the medical facility, it may be costly to accommodate certain technologies to manage the data effectively. Giving the right employees the tools and access to information to work on, helps them make decisions and also making sure that the information they obtain is authentic.</p>
2.	Idea / Solution description	<p>To support customer initiatives and provide a complete understanding of patients, health organisations need an advanced strategy to manage the data that combines all information sources and provides real-time analytics of health metrics and trends across the world.</p> <p>Developing the database is the first step toward building the healthcare system, but implementing new business models, fulfilling customer expectations, and embracing new rules are the real challenges.</p> <p>Our system can be used to assess physician performance, monitor public health, understand systemic resource waste, and identify patients at risk for chronic disease.</p> <p>With this insight, the system can more effectively distribute resources to maximise the output.</p>
3.	Novelty / Uniqueness	<p>Data analysis can be used in the healthcare sector to prevent potential epidemics, treat diseases, and reduce healthcare expenses. This can have a life-saving impact.</p>
4.	Social Impact / Customer Satisfaction	<p>Health care professionals can now identify which treatments work best when they analyse patient data. This help them provide patients with best possible treatments especially for</p>

		<p>those with serious illness. In this way, data analysis provide a key role in their assessment.</p> <p>Health outcomes increase when medical experience does. One advantage of data analytics is that it enables medical professionals to forecast results, which enables them to create the most effective treatments. Data analytics is beneficial for non-communicative diseases and mental health problems</p>
5.	Business Model (Revenue Model)	Over the recent years, the demand for data analytics in the healthcare industry has only grown. A proper knowledge base was required to lower costs at both the commercial and professional levels in light of the escalating prices of medical treatments internationally.
6.	Scalability of the Solution	<p>Both the quantity and complexity of healthcare data are rising. Traditional computers are incapable of storing and analysing this data in order to carry out projects in personalized medicine and information studies.</p> <p>Newer big data platforms must be expanded upon and scaled to meet the unique requirements of the healthcare industry.</p> <p>Large data sets can be stored in integrated data that are built using open-source platforms like Hadoop.</p>