Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID13684
Project Name	Analytics for Hospital's Health-care data
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)	Recent Covid-19 Pandemic has raised alarms over one of the most overlooked areas to focus: Healthcare Management. While healthcare management has various use cases for using data science, patient length of stay is one critical parameter to observe and predict if one wants to improve the efficiency of the healthcare management in a hospital.
2.	Idea / Solution description	The goal is to accurately predict the Length of Stay for each patient on case by case basis so that the Hospitals can use this information for optimal resource allocation and better functioning. The length of stay is divided into 11 different classes ranging from 0-10 days to more than 100 days.
3.	Novelty / Uniqueness	By using the IBM cognos analytics we can able to allocate the beds and also analyze the datas for giving the treatment in the instant time it can be helpful for doctors as well as hospital management
4.	Social Impact / Customer Satisfaction	A shorter LOS reduces the risk of acquiring staph infections and other healthcare-related conditions, frees up vital bed spaces, and cuts overall medical expenses. Hospitals can use this information for optimal resource allocation and better functioning.
5.	Business Model (Revenue Model)	That choice between going to the hospital or an urgent care center is exactly why hospital business models need to change the current health care. It is used to produce the availability of the beds in hospital prior to that date so patient be aware of booking the room in advance to take treatment
6.	Scalability of the Solution	A hospital management system helps you to message the enormous complexities of efficiently managing the hospital in a sustainable manner.