

**Project Design Phase-I**  
**Proposed Solution Template**

Date	24 September 2022
Team ID	PNT2022TMID23311
Project Name	Analytics for Hospitals 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)	Doctors interact with multiple patients on a everyday basis so its hard to keep track of the parameters of each patient and its time-consuming so they need a way to visualize the severity of illness of each patient so that they can make quick and better decisions on the treatment that is needed to be given and also Length of Stay.
2.	Idea / Solution description	We will record Length of Stay for each case of patients.Stay by Patient ID using Column Chart. Severity of illness by Patient-Id using Tree Map Age, Department Wise Patient using Table Room Availability by Pie Char Dashboard Creation.Department wise no. of admissions by <b>Waterfall Chart</b> . This parameter helps hospitals to identify patients of high LOS-risk (patients who will stay longer) at the time of admission. Once identified, patients with high LOS risk can have their treatment plan optimized to minimize LOS and lower the chance of staff/visitor infection.
3.	Novelty / Uniqueness	Using this model we can easily predict the length of stay made by the patients data and illness.
4.	Social Impact / Customer Satisfaction	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. While giving preference to most suffering illness patient they can feel safe and secure and can satisfy for their staying.
5.	Business Model (Revenue Model)	As Covid-19 has raised alarms over one of the most overlooked areas to focus: Healthcare Management. In this type of situation Length of stay is important thing . So as we create Dashboard which helps hospital management to accommodate LOS and can get more number of stays which increase the revenue of the hospital. Getting clear picture of LOS by Dashboard can open up significant opportunities for positive growth in the fame of the Hospitals.

6.	Scalability of the Solution	We can 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. Also, prior knowledge of LOS can aid in logistics such as room and bed allocation planning.