

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

Date	19 September 2022
Team ID	PNT2022TMID30183
Project Name	Project – Analytics For Hospitals’ Health-Care Data
Maximum Marks	2 Marks

**Proposed Solution:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To predict the length of stay of patients .
2.	Idea / Solution description	<ul style="list-style-type: none"> <li>• The length of stay can be predicted using either Fuzzy logic or Tree bagger algorithms.</li> <li>• Along with the algorithm certain parameters like age, stage of disease, progression, etc., are used for prediction.</li> <li>• IBM Cognos is used for analytics purpose.</li> </ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>• It predicts the result with more accuracy using which overstay can be reduced.</li> <li>• Proper resources and therapy can be provided.</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> <li>• Patients can get better treatment and care than before.</li> <li>• Length of stay prediction minimize the overflow of patients therefore hospital resource utilization will be maximized.</li> <li>• Reduces expense for treatment.</li> </ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> <li>• This system can be used in all government hospitals, private hospitals and even in small clinics.</li> <li>• Activities – Length of stay prediction.</li> <li>• Key Resource – Medical records .</li> <li>• Bed consumption is low.</li> </ul>
6.	Scalability of the Solution	This model will predict the length of stay of all kind of patients.