

Project Design Phase-I
Proposed Solution Template

Date	23 September 2022
Team ID	PNT2022TMID15567
Project Name	Project – Analytics for Hospital Health Care Data

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Create a model predicting the length of stay for every beneficiary at the time of admission.
2.	Idea / Solution description	The solution is to collect data such as the beneficiary's history and ailments, beneficiary's drug, and allergy history, family history, and beneficiary's demographics and predict the length of the stay by analyzing the data and build a prediction model
3.	Novelty / Uniqueness	Beneficiaries can utilize the application to make better financial decisions, thereby increasing the community's standard of living. This application intangibly encourages citizens to enroll in the healthcare programs.
4.	Social Impact / Customer Satisfaction	The application has a Drug Information System which accounts for the drug history of the beneficiaries. The system provides up-to-date, accurate medication profiles for improved health planning, evaluation, and research. It also includes a comprehensive Drug Utilization Review (DUR) and flags potential interactions with a patient's medication profile.
5.	Business Model (Revenue Model)	Providers (hospitals) can access the model/application through a subscription service. The minimum subscription period will be an year.
6.	Scalability of the Solution	At the start, the model is designed to ingest and process 100 providers and 100000 patients, which can be expanded exponentially increasing processing power and database upgrades biannually.