

Project Design Phase-I
Proposed Solution Template

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| Date | 23 September 2022 |
| Team ID | PNT2022TMID40524 |
| 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) | EHR data matched patient-reported data in 23.5 percent of records in a study at an ophthalmology practise. Patients' EHR data did not agree in any way when they reported having three or more eye health complaints. |
| 2. | Idea / Solution description | Predictive analytics can create patient journey dashboards and disease trajectories that can lead to effective, and result-driven healthcare. It improves treatment delivery, cuts costs, improves efficiencies, and so on. |
| 3. | Novelty / Uniqueness | Healthcare data frequently resides in several locations. from various departments, such as radiology or pharmacy, to various source systems, such as EMRs or HR software. The organisation as a whole contributes to the data. This data becomes accessible and usable when it is combined into a single, central system, such as an enterprise data warehouse (EDW). |
| 4. | Social Impact / Customer Satisfaction | Enhanced diagnosis Improved medical treatment Improved health results Improved relationships with patients More positive health indicators |
| 5. | Business Model (Revenue Model) | The two factors that have the biggest negative effects on hospital income are claim denials and patient incapacity to pay their part. 90% more uncollectible claim denials were written off by hospitals and healthcare systems in 2017 compared to the preceding six years. |
| 6. | Scalability of the Solution | A variety of institutions must store, evaluate, and take action on the massive amounts of data being produced by the health care sector as it expands quickly. India is a vast, culturally varied nation with a sizable population that is increasingly able to access centralised healthcare services. |