IDEATION PHASE PROBLEM STATEMENT

|  |  |
| --- | --- |
| DATE | 16 OCTOBER 2022 |
| TEAM ID | **PNT2022TMID40633** |
| TEAM LEADER | MANIMARAN.M |
| TEAM MATES | SATHISH KUMAR.M  PAZHANISAMI.R  SAKTHIVEL.T |
| DOMAIN NAME | Data Analytics |
| PROJECT NAME | Analytics For Hospital Health Care Data |
| MAXIMUM MARKS | 2 MARKS |

PROBLEM STATEMENT

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. 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. Also, prior knowledge of LOS can aid in logistics such as room and bed allocation planning. Patient length of stay is one critical parameter to observe and

predict Improper bed management and poor scheduling in contagious diseases leads to the mortality. Patients are continually denied health care due to the shortages of hospital beds, doctors.

|  |  |
| --- | --- |
| Who does the problem affect? | The patients of the hospital. |
| What is the boundaries of the problem? | Patients satisfaction about the various service and management of hospital |
| Why is this issue occur? | Ineffective bed management operations, Improper data analysis  Precaution less system. |
| When does the issue occur? | Improper bed allocation plan |
| Why is it important that we fix the problem? | * If it is not fixed then it is leading to treatment limitations for critically ill patients. * Improper bed management in contagious diseases leads to the mortality |
| What is the solution to solve the problem? | * Hospital needs the system that announces the bed availability and identify patients of high LOS-risk. * Prior knowledge of Length of stay and to prepare accordingly * Enhanced data quality ,consistency and improve the reliability of reporting the data |
| What is the methodology used to solve the issue? | Using IBM Cognos Analytics for dashboard and data analysis. |





