

Project Phase 1

Solution Architecture

Date	01 October 2022
Team ID	PNT2022TMID08776
Project name	Analytics for Hospitals' Health-Care Data
Maximum marks	4 Marks

SOLUTION ARCHITECTURE:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- 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.
- The goal is to 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.
- The length of stay is divided into 11 different classes ranging from 0-10 days to more than 100 days.

