Project Design Phase-I

Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID12612
Project Name	Signs with Smart Connectivity for Better
	RoadSafety
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is used to describe specific systems. It may be a system composed of systems, or it may describe a single system in detail how it works. For example, it may show an element in a design that's identified as a "computing cluster", which is by definition a system of systems. The cluster may be a part of a wider solution architecture. Alternatively, the design could expand on the components of a single server, a single system, that's a member unit of the cluster to show details of its hardware, network, physical location, its operating system, software, and so on. Solution architecture is distinct from reference architecture which would seek to describe a wider viewpoint and commonly more closely coupled to higher level business motivations, goals, and strategies. Consider a reference architecture to be a sweeping description connecting the business goals to technology, and the solution architecture to be narrowly and specifically describing how to implement technologies to achieve said business goals. You should care about solution architecture because its value proposition is showing, in detail, how systems interact to deliver practical and measurable value to your business. It will provide a sufficient level of implementation detail to serve as a playbook for technical roles (such as scientists, developers, and engineers) responsible for instrumenting and delivering a system. It will facilitate regular course correction during the implementation to mitigate scope creep. It will serve as a record of reference for partners and stakeholders. Developing a vetted, solid solution architecture before starting a project will ensure that your business does not spend valuable, and likely expensive, cycles going in less than optimal directions with your deployment. Having defined solution architecture, let's now look at our example by walking through the strategy, business, data and application, and technology layers of the design. The main scope of the solution architecture is to built a system that avoids the road accident possibilities.

Example - Solution Architecture Diagram:

