

Telecommunication Management System

Background

Telecommunication systems are the foundation for modern communication which enables the long-distance transfer of voice, data, and multimedia. The industry is faced with a number of difficulties, such as fast advancing technology, the need to handle ever expanding data traffic, assuring network stability, and addressing security issues due to cyber threats.

Purpose

A centralised database designed to handle these situations will facilitate effortless access to diverse data provided to customers by various carriers and sources. This will streamline the management of customer information, including personal details and billing, leading to significant time savings compared to handling these tasks without such a database.

Mission Declaration / Objectives

- A stable and consistent system that consists of all the services offered by the telecommunications sector, including internet, calls, messages, and other things, via numerous carriers.
- We aim to integrate the management of bills from both the customer's and the service provider's perspectives.
- Allow consumers to change service providers with ease and make network access easier.
- Enable the storage of customer records from multiple carriers, each having distinct network identification numbers.
- Provide various plans and pricing based on the service provider.

Future Scope

The highest priority will be ensuring the security and privacy of client data. The database will need to facilitate the confidentiality, integrity and availability of data in order to support the upcoming AI/Machine Learning based applications.