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**Proposal**

**Project Proposal**

**for CS355 – Database Systems**

**Fall 2017**

**Telecommunication Management System**

***Submitted to***

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**Introduction**

Telecommunication management system is a Window based system that facilitates telecommunication authorities in keeping records of frequent calls, messages and detailed data about calls and text messages. All the interactions with database are handled via windows forms. The database is held responsible to store complete information of each user, the networks being used, network companies, call logs, call and SMS packages, subscription offers, bonus offers. The application facilitates management to view status of each instance in database. It also facilitates management to view data regarding communication about its customers. The application facilitates customers to view information regarding their communication, for example, time duration of each call. Start and end times of each call. Tariffs on each call depending upon on-net, off-net or outstation users. The system reflects a real world business scenario as a similar kind of system is being used by network companies. The system generates a monthly feedback for network companies providing them with a synopsis of how frequently their network was used by customers, incentives (offers) given by each company to its users.

**Modules of the System**

* To develop a Mobile Phone billing system.
* To facilitate call duration and window based live call and record keeping, (An entity for Call Records).
* To develop a window based text messaging system, (An entity for messaging system).
* To facilitate on-net and off-net tariff, (An entity of tariffs).
* To facilitate customer details record keeping, (An entity of customers).
* To facilitate bill generation, (an entity for Bill Generation).
* To allow the users to access their bill, (Form-based credentials system).
* To facilitate payments and their records, (Entity for Payment Records).
* To allow system administrators to view data of all customers. (Form-based credentials system).

**Front-end Development**

* Window based live call simulation.
* Window bases text message simulator.
* View Customer details.
* View call records of customers.
* Bill generation after each call.
* Credential manager for application.

**Tools & Technologies**

Back-end: SQL Server

Front-end: C#