**IST 659 - Project Proposal**

**Project Name:** Pharmacy Management System

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**Project Description:**

JK Pharmaceuticals is a company which supplies medicines directly to the customers. The company needs to create a database so that they can manage their customers, employees, and medicine details. There are various challenges that are faced by a pharmaceuticals company such as to check the customer’s health history and previous medical orders such that they can avoid medical abuse. Additionally, to ensure that all their customers are purchasing medicines according to their prescription. To study all these challenges, our goal is to create a comprehensive system that could address the problems encountered in a modern pharmacy's day-to-day operations.

**Database Components:**

1. The Database will consist of 14 tables. It will have 9 Entities along with 3 views and 2 lookup tables.

2. The database will have mainly three components that are Employees, Customers and Medicines.

3. Customers component will have all the details regarding the customer including their payment methods and their membership details.

4. Employee component will have all the details regarding employee and his department.

5. Medicine Component will have all the details regarding their manufacturer, date of expiry, and price.

6. Excluding these main components their will be other small entities and views that will work as added features of our database.

**Technology Stack:**

1. SQL:- To write all the queries for creating tables, updating data, adding foreign key constraints and to write down the Up Down queries.

2. Azure Cloud:- To create a database which will contain all the required tables so that everyone can access it remotely.

3. Power Apps:- To create a front-end UI for the project.