SEMESTER Name: BSIT -7A	Term Name: Spring 2025	BS (IT)	Lab Engineer: Engr. Gul Saba

TITLE OF PROJECT			
Elder Care Home Management			

Group Members		
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EXECUTIVE SUMMARY OF PROJECT PROPOSAL

This project proposes a comprehensive SQL Plus–based database system for managing various aspects of an elder care home. The system will focus on storing and managing residents' medical histories, medication schedules, food preferences, room assignments, and family visit records. This centralized solution will improve staff efficiency, reduce errors, and enhance the quality of care provided to residents.

Project scope:
The system will handle the following functionalities:
- Medical history tracking
- Medication schedule management
- Dietary and food preference records
- Room allocation and occupancy management
- Family visitation tracking

PROJECT PURPOSE, SCOPE AND OBJECTIVES

Purpose:
To develop a robust, secure, and efficient database management system using SQL Plus for managing daily operations of an elder care home.

Scope:
The system will handle the following functionalities:
- Medical history tracking
- Medication schedule management
- Dietary and food preference records
- Room allocation and occupancy management
- Family visitation tracking

Objectives:
- Streamline elder care recordkeeping.
- Provide timely and accurate information to caregivers.
- Enable staff to track medication and health records.
- Improve communication with family members through visit logs.
- Reduce manual paperwork and associated human errors.

PROJECT DESCRIPTION (most important part)

This system will include the following modules:

1. **Resident Profile Management**
   - o Add, update, and retrieve resident personal and medical details.
   - o SQL CRUD operations will be used for data management.
2. **Medical History & Medication Schedules**
   - o Records past illnesses, treatments, allergies.
   - o Schedule and alert for medication timing.
   - o SQL triggers and procedures will be used to automate reminders.
3. **Food Preferences**
   - o Log food types allowed/restricted per resident.
   - o Weekly meal planning based on dietary needs.
   - o Relational tables with constraints will enforce valid inputs.
4. **Room Assignments**
   - o Assign rooms to residents and manage availability.
   - o Room occupancy logic implemented via SQL queries.
5. **Family Visit Tracking**
   - o Track family visits for residents.
   - o Record date, time, and visitor information.
   - o SQL joins and history tables will manage this module.

Data Processing:

- Use SQL queries for search/filter functionalities.
- Use normalization to ensure data integrity.
- Automate reports using views and stored procedures.

Course Concepts to be used:

- SQL (DDL, DML, DCL)
- Relational database design
- Triggers and stored procedures
- Joins, constraints, indexing
- Data normalization
- Transaction control

TEAM PROFILE

Name	Strengths
Madeeha	SQL scripting, database design
Arjan kumar	Interface design, documentation
Hussnain	Project management, testing

ASSUMPTIONS AND CONSTRAINTS

Assumptions:

- The care facility uses basic IT infrastructure.
- Staff has basic computer skills.

Constraints:

- Only SQL Plus will be used (no frontend GUI).
- Limited budget and time (lab schedule based).
- Manual data entry by staff.

PROJECT DELIVERABLES NOT CHANGEABLE

Deliverables include

- Software Project Proposal.
- Project progress
- Project report
- Team member's work, as per their contribution, you should have to be honest with your future.

For Teacher Use Only

REMARKS

		Signature		Date	
Course Teacher Name		Signature		Date	
Lab Engineer Name		Signature		Date	