Week [ **1]** submission

**Project Title:** ” **Healthcare Data Management**”

**Domain:** ”C++”

**Prepared by**

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# Summary of week- [1] progress

**Problem Statement Understood:** YES

**Completed Code Implementation (in percentage)**: 100%

**[Healthcare Data Management]**

The provided code is a simulation of a Healthcare Data Management using a linked list data structure in C++. Here’s a summary of what the code is doing:

1. struct patient: The patient struct stores data for individual patients (ID, name, age, blood group, gender, and a pointer to the next patient).

2. class linkedqueue: The linkedqueue class contains two pointers (head and last) pointing to the first and last patient in the linked list. It also contains the member functions required to perform operations on this linked list:

search(): Searches for a patient with a given ID in the linked list.

input(): Allows user to input patient information and checks if the entered blood group and ID are valid. The ID is considered invalid if a patient with the same ID already exists.

insertatbeg() and insertatend(): Adds a new patient to the beginning or end of the linked list, respectively.

getpatientout(): Deletes the first patient from the linked list.

listofpatients(): Prints out the data of all patients in the linked list.

3. departmentmenu(): This function is called for each department and allows the user to perform the following operations:

Add a normal patient (insert at end)

Add a critically ill patient (insert at beginning)

Take patient to the doctor (remove the first patient in the list)

Display list of patients

4. main(): In the main() function, four departments (general clinic, heart clinic, lung clinic, and plastic surgery) are created as linked queues. Then, in a loop, the user can select a department and call the departmentmenu() function to perform operations on the selected department. The loop continues until the user chooses to exit.

**Your Learning Highlights:**

1. Learn new techniques to do Health care project.
2. Time management.
3. **Advanced C++ Knowledge.**

**Problems Faced:**

Some Problem faced in during development code.