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# **DATABASE PROJECT PHASE 1:**

# **GROUP MEMBERS:**

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**SUBITTED TO:**

M’S KAINAT NAZIR

**TITLE:**

ONLINE BLOOD BANK AND EMERGENCY DONOR FINDER

# **Task 1**

Purpose of the Project:

The purpose of this project is to design and implement a centralized databasesystemthat manages and facilitates the process ofblood donation, request handling, andinventory tracking. The project aims to solve real-world problems related to the delay in finding blood donors or available blood units during medical emergencies.

By building a reliable backend database, this project provides a foundation for a future web or mobile application that can serve hospitals, patients, blood donors, and blood banks. The ultimate goal is to save lives by enabling faster access to blood**,** improving coordination between blood banks and donors, and maintaining a transparent, digital history of donations and requests**.**

Target Audience:

### Medical Emergency Patients & Families

People in urgent need of blood who can use the system to quickly find donors or nearby blood banks with the required blood group.

1. **Voluntary Blood Donors**

Donors who wish to help others can register, update their availability, and receive requests when a match is found.

1. **Blood Banks & Hospitals**

Blood banks can update their inventory and respond to requests. Hospitals can use the system to check availability and reduce emergency response time.

1. **Healthcare Administrators & NGOs**

The system helps monitor donation trends, manage donor drives, and ensure a steady supply of blood across regions.

# **Task 2:**

ERD :

