

# CMT 209: WEB DEVELOPMENT

## TASK1: TITLE SELECTION

Group Number		5
Group Members		
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### Project Title

**VitalDrops Motive Group System:** A Blood Donation and Community Support Platform

### Project Description

#### **Problem project addresses**

VitalDrops addresses the critical problem of connecting blood donors with patients in need during emergencies. It eliminates the delays and inefficiencies in manually finding donors and ensures timely support for patients. Additionally, it promotes community-based social support activities to uplift underprivileged members of society.

#### **What will be Developed**

**Donor Registration:** A user-friendly system for individuals to register as blood donors.

**Recipient Matching:** A search functionality to match blood donors with recipients based on blood group and location.

**Donation Requests:** A module for hospitals, patients, or NGOs to request blood.

**Social Activity Tracker:** Features to document and showcase community initiatives, such as food and clothing drives, blood donation campaigns, and cultural programs.

**Reports and Analytics:** A system to generate reports on donor activity, social impact metrics, and blood donation trends.

**Database Integration:** A robust database to securely store and manage donor, recipient, and activity data.

## **Where or in which organizations and region can the project be used**

The VitalDrops Motive Group System is designed for use by:

- Hospitals and clinics in Kenya, especially those in urban and rural areas.
- NGOs and community groups hosting blood donation campaigns.
- Organizations engaged in community upliftment activities.

## **Technologies to be Used In development**

**Front-End:** HTML, CSS, JavaScript for the user interface and responsive design.

**Back-End:** PHP for server-side processing and MySQL as the relational database for data management.

### **Development Tools:**

- **Browser Automation:** Gecko Driver for testing front-end compatibility.
- **Version Control:** GitHub for code management and collaboration.

**Server Setup:** XAMPP for local testing and hosting.