

Team#4

Minutes of Meeting

Date: 17/12/2024

Purpose: Discussion on the integration of IoT and blockchain for the volunteer-NGO management system

Key Points Discussed:

1. Technology Selection:

- **QR Code chosen:**

Team was asked to Finalize the choice between RFID, QR Code, and NFC for the system. After comparative analysis, QR codes were selected as the best option for volunteer identification and participation tracking due to their cost-effectiveness, ease of generation, and compatibility with existing devices.

- **IoT Communication:**

The team was tasked with studying **MQTT** (Mosquitto protocol) for its potential use in lightweight and efficient communication between IoT devices.

2. IoT Dashboard:

- Development of a real-time **IoT dashboard** to monitor and display data related to NGO campaigns, volunteer activities, and SHG performance was suggested

3. Geotagging Features:

- Integration of geotagged pictures to document campaign locations.

4. Mapping NGO Campaign Localities:

- Use of OpenStreetMap for visualizing NGO campaign locations was recommended