Project Title: Donation and Fundraising Dashboard - Empowering Giving and Impact Tracking

Topic Selection:

Computer Science Relevance - Web Development and Data Visualization

Focus:
Designing a user-friendly dashboard that enables individuals and groups to track their charitable donations and fundraising activities, visualize progress towards fundraising goals, assess the impact of donations on specific projects, and provide tools for sharing their philanthropic achievements on social media.

Introduction:

In today's interconnected world, philanthropy and fundraising play a crucial role in addressing various social issues. However, individuals and organizations often lack efficient tools to track their charitable activities, understand the impact of their donations, and share their contributions with a broader audience. This project aims to create a Donation and Fundraising Dashboard that empowers users to manage their giving efforts effectively while fostering transparency and social sharing.

Objectives:

- Develop a user-friendly web dashboard for tracking charitable donations and fundraising activities.
- Visualize progress towards fundraising goals through intuitive charts and graphs.
- Provide insights into the impact of donations by linking them to specific projects or causes.
- Implement social sharing features to inspire others and raise awareness about charitable initiatives.

Methodology:

- Front-End Development: Utilize HTML, CSS, and JavaScript (React.js) to build an interactive and responsive user interface.
- Back-End Development: Employ Python (Django) to handle back-end logic and data management.
- Database Management: Utilize MySQL for storing user data, donation records, and project details.
- Data Visualization: Implement data visualization libraries (e.g., D3.js) to create insightful charts and graphs.
- API Integration: Connect with social media platforms to enable users to share their philanthropic achievements easily.

Expected Outcomes:

- A user-friendly Donation and Fundraising Dashboard accessible to individuals and groups.
- Visual representations of progress towards fundraising goals.
- A transparent link between donations and their impact on specific projects.
- Social sharing tools to inspire others to contribute to charitable causes.

Timeline:

- Weeks 1-2: Research and Requirements Gathering
- Weeks 3-5: Front-End Design and Prototyping
- Weeks 6-8: Back-End Development and Database Setup
- Weeks 9-10: Data Visualization Implementation
- Weeks 11-12: Social Media Integration, Testing, and Deployment

Group Work:

Group Members:
Swoyam Thapa (Front-End Development & Project Management): Swoyam will lead the project management efforts, ensuring that the project stays on track and all deliverables are met. He will also contribute to the front-end development.
Muhammad Talha Ramzan (Back-End Development & Data Visualization): Muhammad will be responsible for the back-end development and database management. Additionally, he will focus on implementing data visualization components to provide valuable insights.

Both members will collaborate on research, design, and user experience aspects of the project. Swoyam will oversee project timelines and deliverables, while Muhammad will ensure the technical stability and functionality of the dashboard. Together, they will create a powerful tool for tracking and promoting charitable giving and fundraising efforts.