

Project Proposal Form, 2025
Institute of Information Technology (IIT)
University of Dhaka

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Project Title: Local Donation Exchange Platform (LDEP)

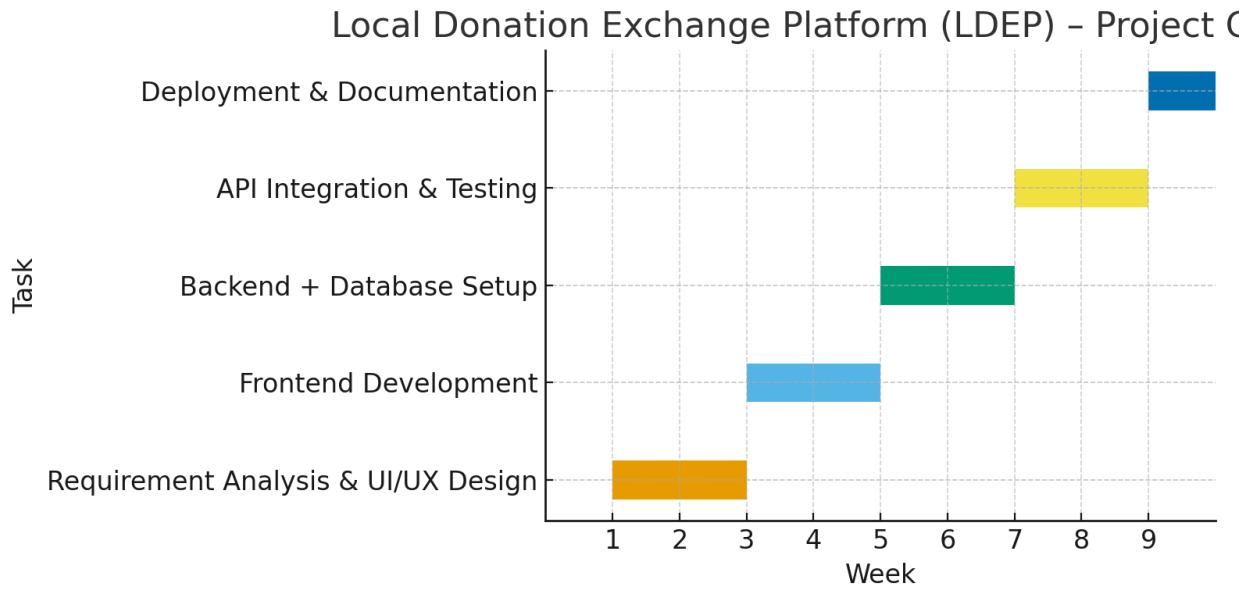
Motivation: In today's society, many people are eager to donate, but the existing systems for donation management are often unorganized and inefficient. Traditional donation methods lack proper coordination among donors, volunteers, and administrators, leading to confusion, delays, and mistrust. There is no real-time tracking, no proper record of how donations are used, and no reliable way for donors to verify that their contributions reach the intended recipients. The Local Donation Exchange Platform (LDEP) aims to solve these challenges by providing a centralized, web-based donation management system. It ensures transparency, coordination, and accountability across all stakeholders—Donors, Volunteers, and Admins—thereby bridging the gap between goodwill and impact.

Project Description: The Local Donation Exchange Platform (LDEP) is a full-stack web-based system that connects donors, volunteers, and admins within a unified platform. Users can donate money or physical items, track their progress, and receive real-time updates through email or SMS notifications. Admins can approve donations, assign volunteers, and monitor system activities using a powerful dashboard. The platform integrates secure authentication, role-based access, automated reporting, and real-time tracking mechanisms. Key functional features include:

- User Authentication and Role Management
- Online and Physical Donation Submission
- Volunteer Assignment System
- Tracking and Notification System
- Reward and Reporting Dashboard
- Secure Data Encryption and Backup

Strategy & Timeline: Development Timeline:
1. Week 1–2: Requirement Analysis and UI/UX Design
2. Week 3–4: Backend (Node.js, Express.js) and Database (MongoDB) Setup
3. Week 5–6: Frontend Development (React.js, Tailwind CSS)
4. Week 7–8: API Integration and Testing

5. Week 9: Deployment and Documentation



Languages or Tools to be used:

Frontend: React.js, Tailwind CSS, Axios

Backend: Node.js, Express.js, JWT, Bcrypt

Database: MySQL

Tools: GitHub, Postman, Cloudinary, Vercel/Heroku

Supervisor's Name: Dr. Zerina Begum

Signature of the supervisor: _____

Date: _____

Before the Midterm Presentation 1:

I confirm that the progress is satisfactory and I am forwarding it for midterm presentation.

Signature of the supervisor: _____

Date: _____

Proposal Presentation Feedback (if any) :

Midterm 1 Presentation Feedback (if any) :

Midterm 2 Presentation Feedback (if any) :