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**Student Name: Grishma Karki**

**London Met ID: 23049351**

**College ID: np01cp4a230150**

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**Internal Supervisor: Dipesh Raj Adhikari**

**External Supervisor: Shristi Shakya**

*I confirm that I understand my coursework needs to be submitted online via MST Classroom under the relevant module page before the deadline for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

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## PROJECT TITLE: MANOBAL NEPAL

### 1. INTRODUCTION

An NGO is a mission-driven organization that exists independently from government control and exists to address mainly social, humanitarian, or environmental problems. Where most NGOs exist without profits, it also receives its funds from any other sources such as government grants, private donors, and international institutions. (investopedia, 2025). Non-governmental organizations (NGOs) in Nepal play a major role in improving community welfare by conducting awareness programs, providing support to students, managing donations, and engaging young volunteers. One such organization is Manobal Nepal, which works actively in the fields of mental well-being, youth awareness, and community empowerment. Although the organization conducts multiple events and donation drives every year, it faces challenges due to the absence of a digital system. This problem is common across most NGOs in Nepal.



*Figure 1: Manobal Nepal*

## A. PROBLEM SCENARIO

In Nepal, majority of the NGOs continue working manually and use paper files, Excel sheets, phone calls and informal communication to handle their work. This poses some grave management issues as crucial information is usually lost or captured wrongly. The Social Welfare Council (SWC) estimates over 54,000 registered NGOs in Nepal, yet with a negligible percentage operating on sound digital systems (to organize events, donors, volunteers and school programs). The Digital Governance Assessment of Nepal (2023) also states that non-profit organizations do not use digital tools to manage their data and instead use traditional approaches extensively.

Due to such limitations, numerous NGOs are affected with problems such as:

- No donor, volunteer, and partner school database.
- Challenges in monitoring the donations like books, clothes, stationery, or funds.
- Lack of a clear reporting on activities done.
- Poor communication between the NGO team, volunteers and school.
- Few community participations due to people having no access to information online.

## B. PROJECT AS SOLUTION

Manobal System is a solution to all these management and communication issues that is built as a fully digital platform. Under the system, the donors, volunteers, schools, and the NGO administration are all placed on a single site and thus the entire operation becomes simple, ordered and transparent. Donors can donate books or clothes with ease, volunteers may sign up and attend events, and the administration may approve, monitor, and report all activities with the help of a one-dash board.

Digitizing such processes helps Manobal to become more efficient, minimize errors, and plan them more effectively. Any recorded information about donations, event programs, school demands and assignment of volunteers are safely archived in the database and can be retrieved in real time. This enhances trust, communication as well as overall impact of the NGO. The platform also helps Manobal to target more communities as information and opportunities would be accessible online. To put it in simple terms, the given project will assist Manobal in making work smarter, faster, and more transparent, striving towards the mission of this organization to spread emotional well-being, awareness, and community support throughout Nepal.

## 2. AIMS AND OBJECTIVES

### A. AIM

To build a user-friendly and efficient web platform that supports Manobal in managing events, donations, volunteers, and school collaborations in a structured and transparent way.

### B. OBJECTIVES

- To develop a safe system of login and registration to the admin, donors, volunteers, and schools.
- To create an event management module, which will be used to create, schedule, and ratify events.
- To offer an online book, clothes, stationery, and fund donation platform.
- To handle volunteer assignments, applications and attendance.
- To develop dashboards with the total number of donations, events, and partner schools.
- To enhance the level of transparency and communication between the NGO and the populace.

### **3. EXPECTED OUTCOMES AND DELIVERABLES**

#### **A. EXPECTED OUTCOMES**

- A complete web-based system that handles NGO operations digitally.
- Better communication with schools, donors, and volunteers.
- Accurate and transparent donation records.
- More organized event planning and reporting.
- Stronger engagement with the community.

#### **B. DELIVERABLES**

- Complete working website (frontend + backend + database).
- UI/UX wireframes and design documentation.
- Testing reports and error fixes.
- Deployment of the system online.

## 4. PROJECT RISKS, THREATS AND CONTINGENCY PLANS

RISKS	PROBABILITY	IMPACT	SOLUTION
Late schedule in the project	Medium	High	Follow gantt chart strictly and do proper time management
Laptop problems	High	Medium	Take good care of device and do backups or get a new one soon.
Low motivation	Medium	High	Do tasks in small chunks and take breaks.
Difficulty understanding some parts	High	Medium	Ask help from friends and supervisors or use online tutorials
Change in some features or language	Medium	Medium	Do whatever you know and makes your work easy.
Unexpected errors before final submission or during viva	High	High	Set extra time for the end and make a video too of it working.

## 5. METHODOLOGY

### CONSIDERED METHODOLOGY:

## 1. SPIRAL METHODOLOGY:

The Spiral Model is a software development model which has the characteristics of the Waterfall and Prototyping Models. It is a series of development cycles, where each spiral is followed by a working software version which can be tested by the users, a baseline spiral is followed by the development of the next spiral with the addition of new features. This model has elements of risk analysis and risk management. (sciencedirect, 2020)

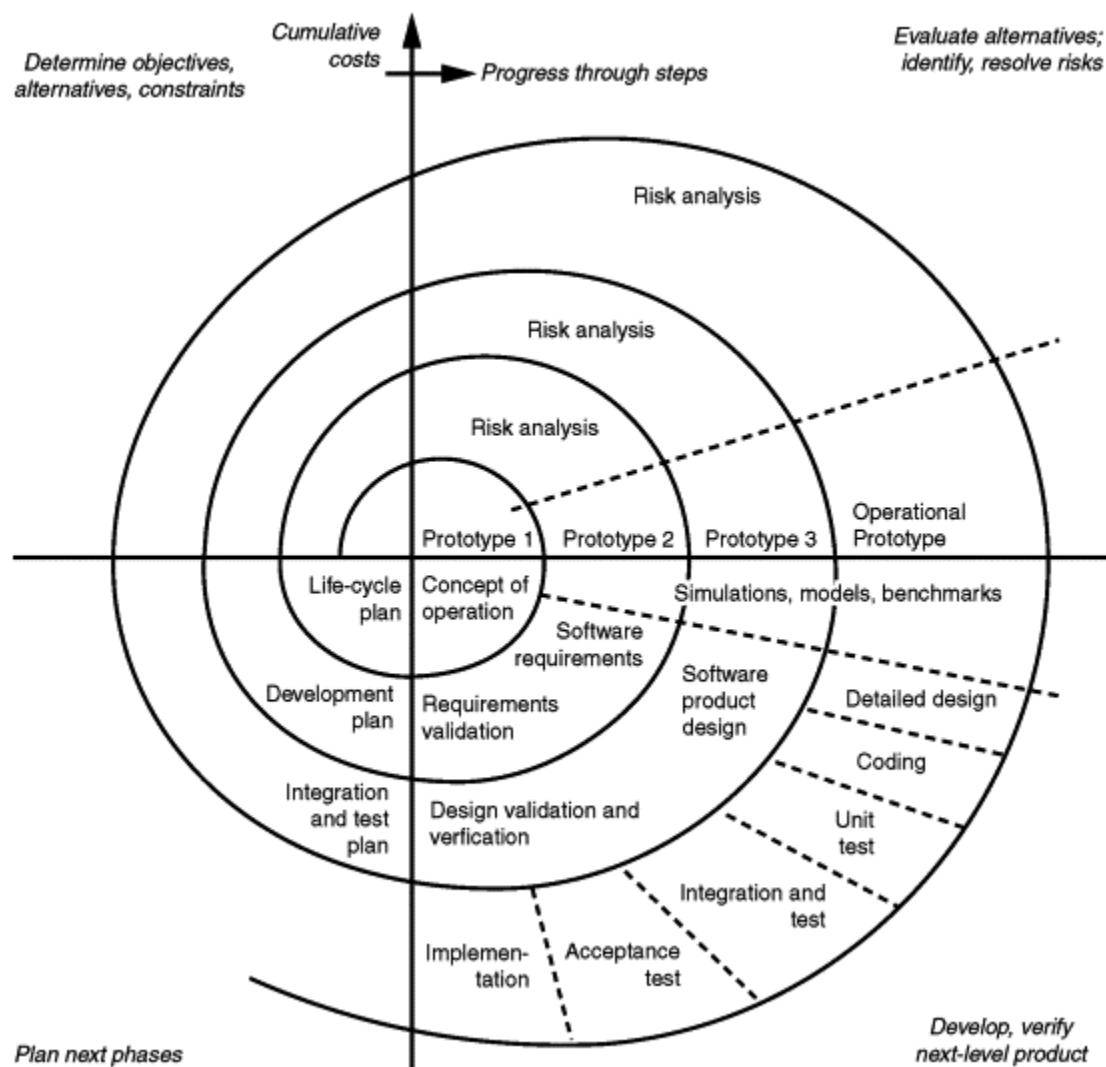


Figure 2: Spiral methodology

2. WATERFALL METHODOLOGY: The Waterfall methodology follows a chronological process and works based on fixed dates, requirements, and outcomes. Individual execution teams aren't required to be in constant communication and are usually self-contained, unless specific integrations are needed.

Team members also tend to work independently and aren't expected to provide status reports as often as with the Agile approach. Usually, one phase doesn't begin until the previous one is finished. (businessadobe, 2023)

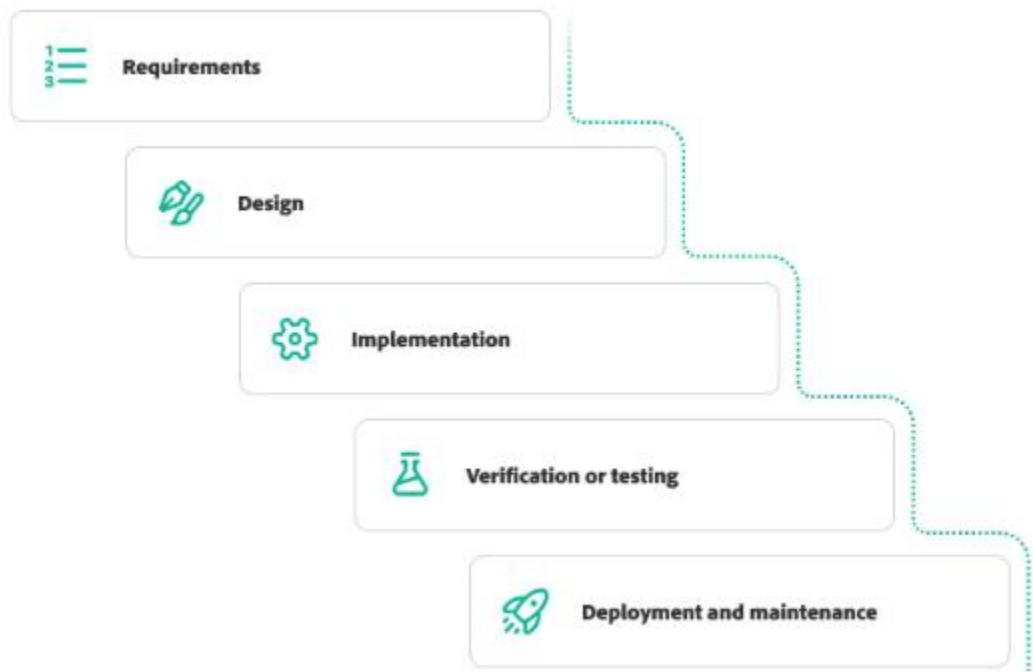


Figure 3: Waterfall methodology

## CHOOSEN METHODOLOGY

### AGILE METHODOLOGY:

Agile Methodology is a way to manage projects by breaking them into smaller parts. It focuses on working together and making constant improvements. Teams plan, work on the project, and then review how things are going in a repeating cycle.

Scrum is great for small teams and works in sprints--short, focused work periods. A Scrum Master removes obstacles for the team. Scrum includes two key events:

Sprint Planning: Decides what the team will work on in the next sprint.

Sprint Retrospective: Reflects on the last sprint to improve the process for the next one.  
(geeksforgeeks, 2024)

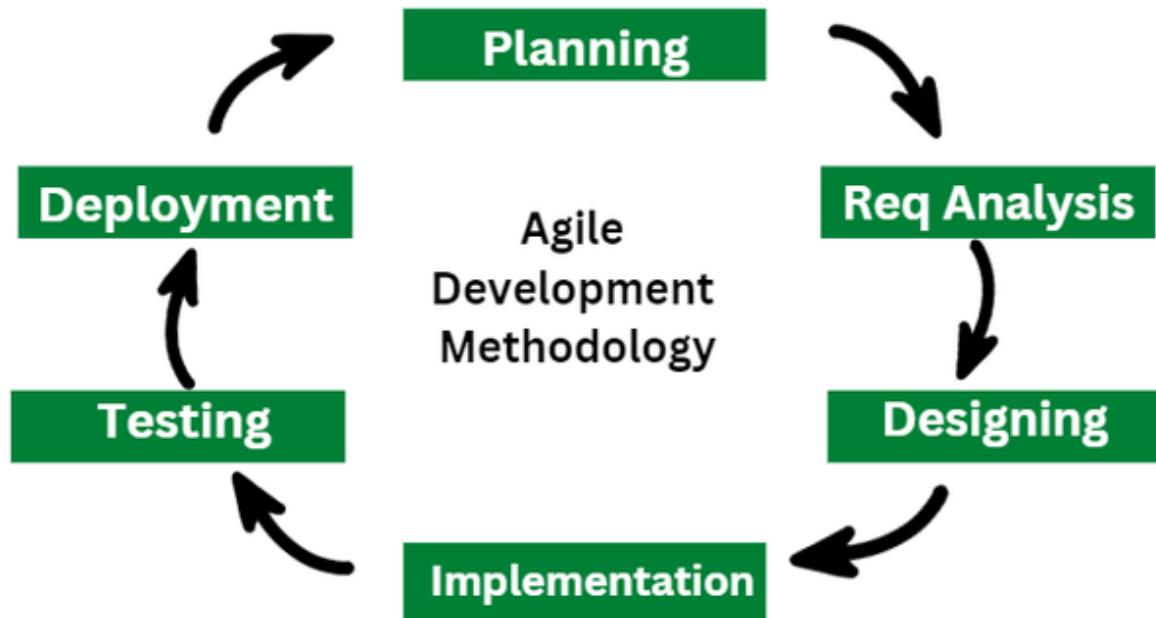


Figure 4: Agile methodology

## 6. RESOURCE REQUIREMENTS

### SOFTWARE RESOURCES

- MS-Word
- Frontend: HTML, CSS, JavaScript, React
- Backend: Node.js & Express (or Java JSP/Servlet)
- Database: MongoDB (or MySQL)
- Tools: VS Code, GitHub, Figma

### HUMAN RESOURCES

- Project Supervisor for technical and academic guidance
- NGO Team Members for system validation.

### OTHER RESOURCES

- Research papers, case studies, government reports.
- Internet and online videos

## 7. WORK BREAKDOWN STRUCTURE

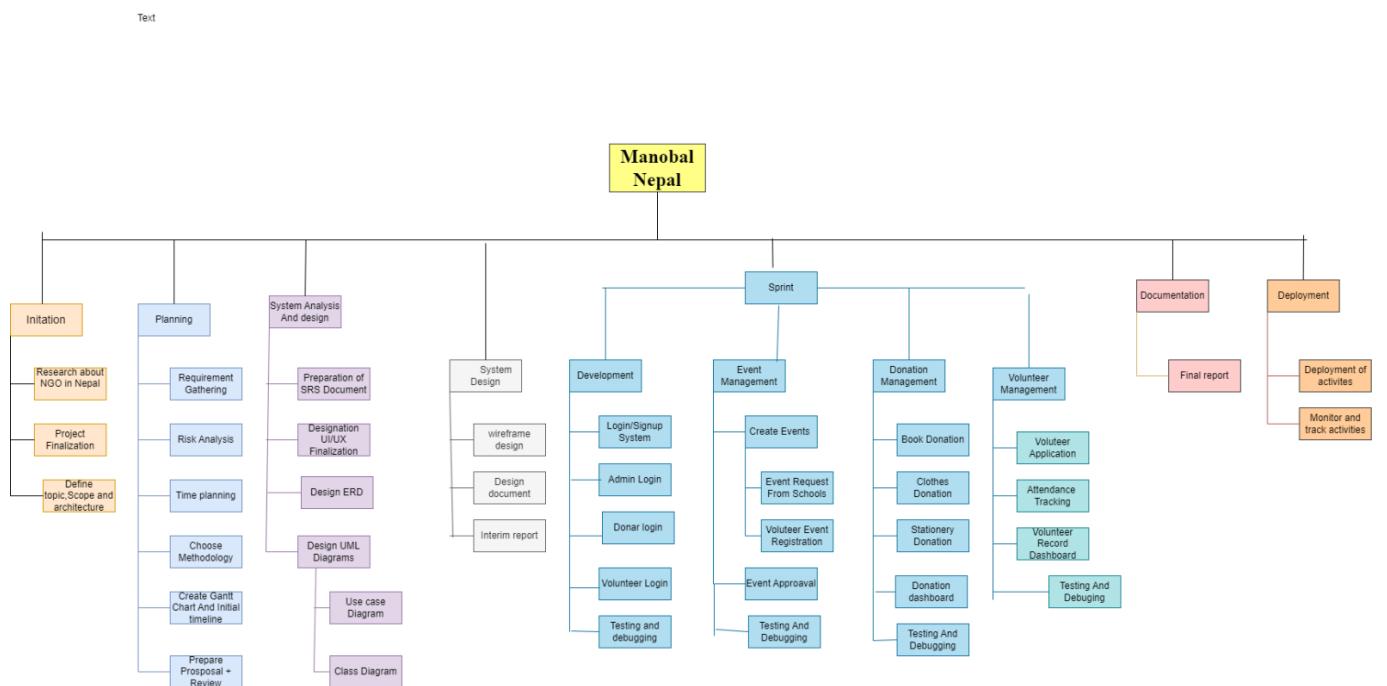


Figure 5: Wbs

## 8. MILESTONES

### Milestone 1: Finalize Project Topic

After reviewing multiple problems related to NGOs and discussing them with my supervisor, the topic of the project was finalized as "Manobal Nepal".

### Milestone 2: Submission of the Proposal

A complete project proposal was prepared and submitted. It contained the background of NGOs in Nepal, main problems faced by Manobal, project aim, objectives, expected outcomes, and an initial timeline. This document served as the foundation for all future development work.

### Milestone 3: System Analysis

Detailed system analysis was carried out during this milestone. Documents like SRS, Use Case Diagram were prepared. These documents clearly outlined how donors, volunteers, schools, and admins would interact with the system.

### Milestone 4: Designing

This milestone covered the development of all UI/UX wireframes and design prototypes. These wireframes served as the blueprint for the layout of the system, and interactive patterns that a user would follow. Designing ensured that the platform would be simple, user-friendly, and accessible to all.

### Milestone 5: Preparation of Interim Report

An interim report is developed to document the system's progress in detail. It includes requirement analysis, design diagrams, modules breakdown, and initial implementation insights.

### Milestone 6: Login & Registration System

The secure login and registration system were the first functional module developed. Accounts had to be created separately for Admin, Donors, Volunteers, and Schools.

### Milestone 7: Event Management Module

In this milestone, a complete event management system was developed. Admins could create workshops, awareness programs, and school events; schools could request events, and volunteers could register for them. This formed the core functional part of the project.

### Milestone 8: Donation Management System

This phase involved developing an online donation platform. Donors could donate books, clothes, stationery, and other funds through the system. Admins could track all the donation activities and approve or record donations to keep the process transparent and organized.

### Milestone 9: Volunteer Management & Attendance

A separate module was created to allow volunteers to apply for the programs, accept assignments, and mark attendance. On the admin dashboard, volunteer count, participation records, event involvement-these were all there for easy monitoring.

### Milestone 10: Dashboard & Reporting System

A central admin dashboard was implemented that showcased the total donations, number of volunteers, upcoming events, completed programs, and school requests. Reporting features helped the NGO to maintain clear documentation of activities.

### Milestone 11: Final Documentation

Findings, designs, diagrams, testing results, screenshots, and other implementation details were compiled into the final project report.

### Milestone 12: Testing & Deployment

All the testings were done and fixing of errors were done after completing all modules. Once the system started working smoothly, it was deployed online for real-time use by Manobal and all.

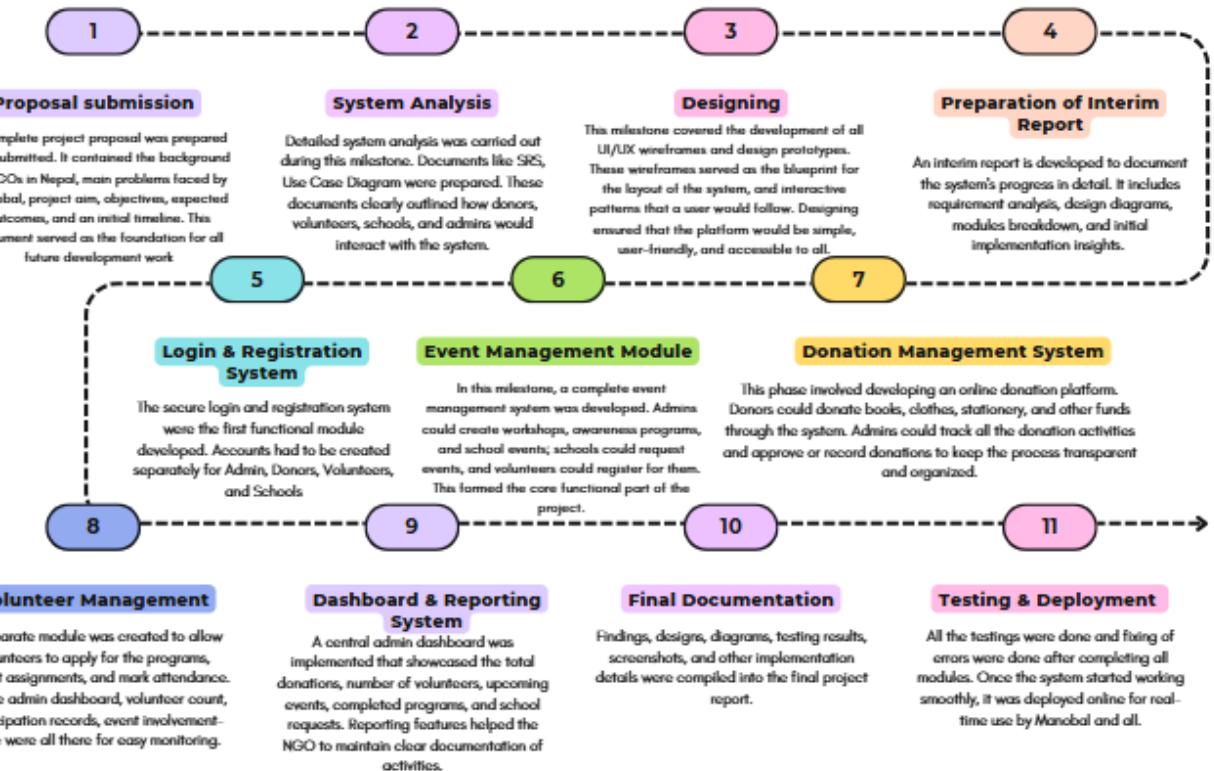


Figure 6: Milestones

## 9. GANTT CHART

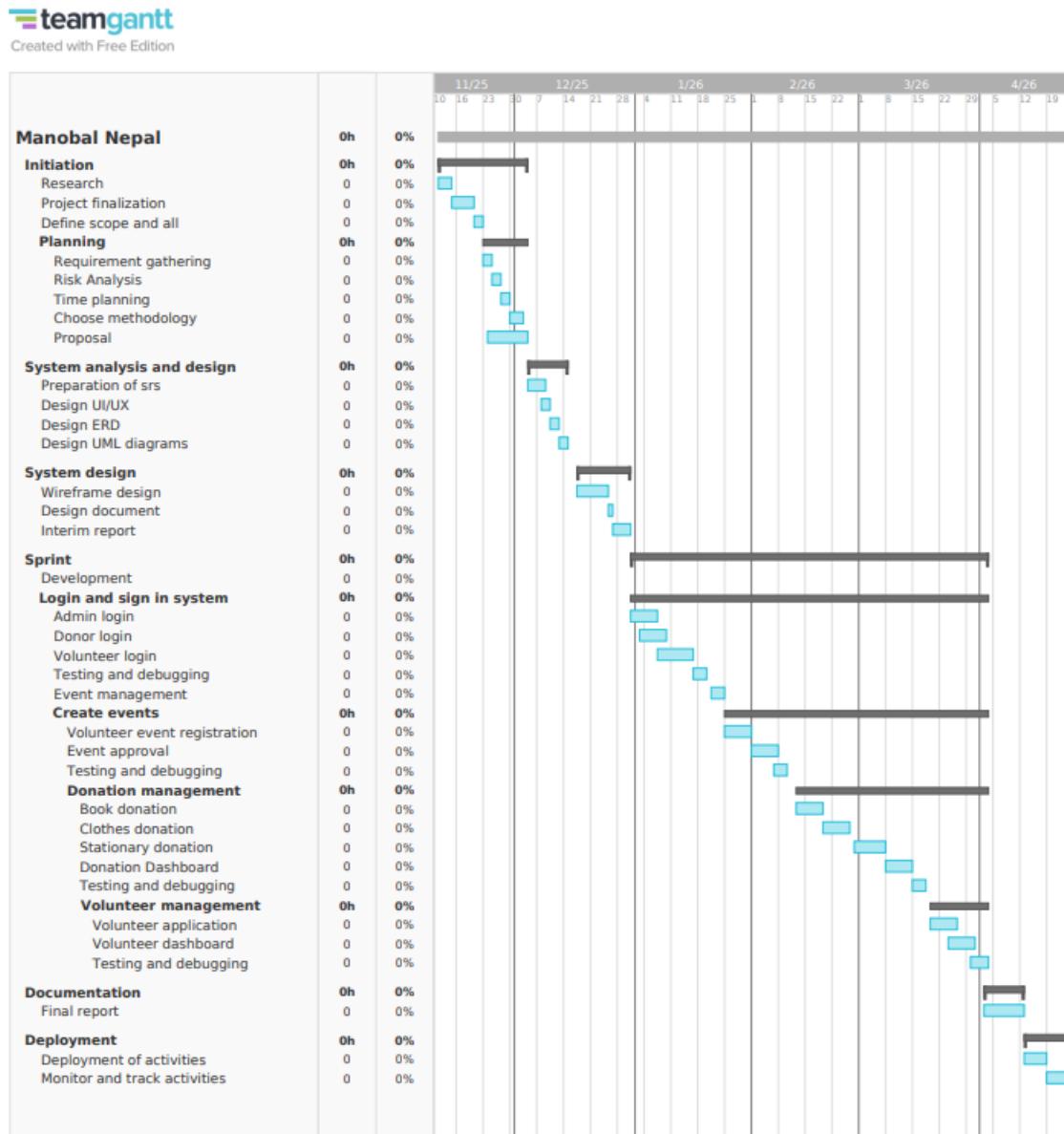


Figure 7: Gantt chart

## 10. CONCLUSION

Manobal NGO Event, Donation and Volunteer Management System aims at addressing real and ordinary issues that NGOs experience in Nepal. In fact, that most organizations are still using manual paperwork and informal communication, the system provides a digital, effective and transparent solution. The project also enhances better planning, proper record keeping, and easy communication by integrating donors, volunteers, schools, and administrators on a single platform.

The system will significantly improve the influence of the NGO in society since it will have such features as donations tracking, event organization, volunteer's placement, and informative dashboard features. The suggested methodology, well-defined goals, and organization of the working process, along with the appropriate risk handling, make it possible to implement the project successfully. This system does not only assist Manobal to work more efficiently in the present but also makes the organization prepared to expand to the future so as to serve more communities and continue its mission with strength.

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