# Project Planning & Management

## **1. Project Proposal**

### Overview

In today's digital world, non-profit organizations need a strong online presence to maximize their impact. Nabd Al-Hayat, a charitable healthcare organization, provides free medical services to underprivileged individuals but lacks a centralized digital platform to showcase its initiatives, facilitate donations, and engage with supporters. To bridge this gap, our team is developing a modern, user-friendly portfolio website that will serve as an information hub, donation portal, and engagement platform.

### **Objectives**

Our project aims to:

* **Strengthen Digital Presence:** Develop an attractive, easy-to-navigate website highlighting Nabd Al-Hayat’s humanitarian efforts.
* **Simplify Donations:** Implement a secure and transparent donation system to support specific initiatives.
* **Raise Awareness:** Provide detailed insights into the organization’s projects, encouraging public participation.
* **Enhance Communication & Engagement:** Create seamless interaction between donors, volunteers, and beneficiaries.
* **Enable Efficient Management:** Build an intuitive admin panel for easy content updates, donation tracking, and volunteer management.

### Scope

The website will include:

* **Initiative Pages:** Showcasing healthcare programs, blood donation services, dialysis treatments, and humanitarian aid projects.
* **Secure Donation System:** Allowing users to contribute directly to specific causes.
* **Volunteer Registration & Contact Forms:** Simplifying the process for individuals who want to help.
* **Admin Dashboard:** Enabling the organization to update content, track donations, and generate reports.
* **User-Friendly Design:** Ensuring accessibility, mobile responsiveness, and ease of use.

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## 2. Project Plan

### **Timeline & Milestones (Gantt Chart required)**

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| **Phase** | **Duration** | **Key Activities** |
| --- | --- | --- |
| **Requirements Gathering & Planning** |  | **Understand project requirements, define features, and plan the work.** |
| **System Design & UI Prototyping** | **1week** | **Create website wireframes and database structure. Design UI mockups.** |
| **Frontend Development** | **2 weeks** | **Design and develop the user interface, connect it with the backend.** |
| **Backend Development** | **3 weeks** | **Build the backend, set up the database, and develop main functions.** |
| **Testing & Fixing Issues** | **1 week** | **Check for bugs, test the website, and fix any problems.** |
| **Final Review & Submission** | **2 weeks** | **Make final improvements, prepare documentation, and submit the project.** |

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### **Deliverables**

By the end of the project, we will provide:

* **Project Requirements Document:** Describes what the website should do.
* **Website Prototype:** A design preview before development.
* **Functional Website:** A fully working site with all planned features.
* **Project Documentation:** Explains how the system works.
* **Testing Report:** Shows testing results and fixes.

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## **3. Task Assignment & Roles**

* **Project Manager:** Amar Yasser Farrag - Keeps track of progress and deadlines.
* **Backend Developers:** Fares Ahmed Ebrahim , Abd Elrahman Elagail , Abd Elrahman Emad  
   - Builds the backend, database, and security.
* **Frontend Developer:** Amar Yasser Farrag - Implements UI and integrates APIs.
* **Business Analysis:** Ahmed Salah - Designs and manages the database.
* **Tester & QA:** Team Member Name - Conducts testing and ensures system reliability.

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## 4. Risk Assessment & Solutions

| **Risk** | **Chance of Happening** | **Impact** | **Solution** |
| --- | --- | --- | --- |
| Security issues | High | High | Use secure coding and encryption. |
| Delayed development | Medium | High | Set deadlines and check progress weekly. |
| Server problems | Low | High | Choose a reliable hosting provider. |
| Adding too many features | Medium | Medium | Stick to the original plan and avoid extra work. |

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## **5. Key Performance Indicators (KPIs)**

To check if the website is successful, we will track:

* **Speed:** The website should load in less than 2 seconds.
* **Engagement:** Track the number of donations and volunteer sign-ups.
* **Uptime:** The website should be available 99.9% of the time.
* **Security:** No data leaks or security issues.

# Literature Review

### 1. Background Research

Non-profit organizations increasingly rely on digital platforms to enhance their visibility, attract donors, and streamline operations. A well-structured portfolio website helps charities improve outreach, facilitate donations, and provide transparency about their work.

### 2. Related Studies & Technologies

* **E-commerce & Donation Platforms:** Online payment integration is crucial for non-profits to receive contributions securely.
* **User Experience in Non-Profit Websites:** Research indicates that clear navigation, engaging content, and trust signals (e.g., testimonials, certifications) increase donor trust.
* **Security Considerations in Online Donations:** Studies emphasize the importance of secure payment gateways, SSL encryption, and data protection for donor confidence.
* **Accessibility Standards:** Following WCAG (Web Content Accessibility Guidelines) ensures that people with disabilities can navigate the website easily.

### 3. Relevance to Our Project

The research findings will guide our design decisions, ensuring that the Nabd Al-Hayat website is secure, user-friendly, and optimized for donor engagement.

### 4. Suggested Improvements

* Incorporating AI-driven chatbots for donor inquiries
* Implementing blockchain for transparent donation tracking
* Adding multilingual support to reach a wider audience

### 5. Evaluation Criteria

* **Functionality:** The website must allow smooth navigation and a secure donation process.
* **Design & Usability:** Clear UI/UX principles should be followed.
* **Security:** Data protection measures must be implemented.
* **Performance:** Fast page loading and mobile responsiveness are essential.

# Requirements Gathering

Before building any system, it’s important to understand what it needs to do and who will use it. This section outlines the key people involved, how they will interact with the system, and the features required to make it work effectively.

### 1. Stakeholder Analysis

Stakeholders are the people or groups who will use or be affected by the system. Identifying them helps us design a platform that meets their needs.

* **Nabd Al-Hayat Management:** Needs a simple way to update website content, track donations, and manage volunteers.
* **Donors:** Want a secure and easy process to donate and track where their money goes.
* **Volunteers:** Need a way to sign up for events and communicate with the organization.
* **Patients & Beneficiaries:** Should be able to find important healthcare information easily.

By understanding these needs, we can create a website that serves everyone efficiently.

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### 2. User Stories & Use Cases

User stories describe how different users will interact with the system.

**Examples:**

* **As a donor,** I want to browse different donation campaigns so I can choose where to contribute.
* **As an administrator,** I want to update the website’s content easily so that information remains accurate and up to date.
* **As a volunteer,** I want to sign up online for upcoming charity events so I can participate.

Use case diagrams will also be created to visually map out these interactions and ensure smooth functionality.

### 3. Functional Requirements

The functional requirements define the core features and operations of the system.

**Key features include:**

* User authentication (admin login, donor accounts).
* A donation system that allows users to contribute to specific causes OR Secure online donation system????? CHOOSE..
* Pages showcasing the organization’s projects and initiatives.
* A volunteer registration form for people who want to help.
* Payment gateway integration.
* An admin dashboard for managing donations, content, and reports.

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### 4. Non-Functional Requirements

These requirements ensure the system meets quality standards:

* **Performance:** The website should load in less than **2 seconds**.
* **Security:** All data, especially payment details, must be **encrypted and protected**.
* **Scalability:** The system should be able to **handle an increasing number of users and donations**.
* **Usability:** The website should be **easy to navigate**, with a clean and mobile-friendly design.
* **Reliability:** The website should have **99.9% uptime**, ensuring it’s always available.