

# Proposal for Final Year Project: Health Expense Assistance Application

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## **Project Title:**

Health Expense Assistance Application

## **Team Members:**

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## **1. Introduction**

The rising cost of healthcare has made it increasingly difficult for many individuals to afford necessary medical treatments. This project aims to develop a Health Expense Assistance Application that connects patients who are unable to meet their health expenses with NGOs and pharmaceutical companies. The goal is to facilitate interest-free loans and affordable medication options to ease the financial burden on patients.

## **2. Objectives**

- To develop an application that enables patients to request financial assistance for medical expenses.
- To collaborate with reputable NGOs, such as AL-KHIDMAT, to provide interest-free loans to patients.
- To partner with pharmaceutical companies to procure medications at the lowest possible rates.
- To ensure a transparent and efficient process for evaluating and approving financial assistance requests.
- To implement a repayment system for patients to return the loan amount once they have recovered.

## **3. Methodology**

### **3.1 Application Development**

- Platform: The application will be developed as a web-based/app-based platform to ensure accessibility for a wide range of users.

- **Technology Stack:** The project will utilize cloud computing services, such as AWS or Google Cloud, for hosting and data management. The frontend will be developed using HTML, CSS, and JavaScript, while the backend will be implemented using Node.js and MongoDB.

### **3.2 NGO Collaboration**

- **Partnerships:** Establish partnerships with NGOs like AL-KHIDMAT to provide interest-free loans to patients.
- **Case Evaluation:** Implement a system for NGOs to review and evaluate patient cases before approving loans.

### **3.3 Pharmaceutical Collaboration**

- **Partnerships:** Collaborate with multiple pharmaceutical companies to offer competitive prices for medications.
- **Medication Procurement:** Implement a system to highlight the required medications and procure them from the company offering the lowest rate.
- **Service Charge:** A 2% service charge will be applied to the cost of medications to cover operational expenses.

### **3.4 Financial Assistance Workflow**

- **Patient Registration:** Patients register on the application and submit their medical expense details.
- **Case Review:** The application forwards the case to partnered NGOs for review and approval.
- **Loan Disbursement:** Upon approval, the NGO provides an interest-free loan to the patient.
- **Medication Procurement:** The application coordinates with pharmaceutical companies to procure medications at the lowest cost.
- **Repayment System:** Patients repay the loan amount once they have recovered, ensuring the sustainability of the assistance program.

## **4. Expected Outcomes**

- An accessible and user-friendly application that helps patients manage their medical expenses.
- A streamlined process for evaluating and approving financial assistance requests.
- Reduced financial burden on patients through interest-free loans and affordable medications.
- Strengthened partnerships between healthcare providers, NGOs, and pharmaceutical companies.

## 5. Timeline

Phase	Task	Duration
Phase 1	Requirement Analysis & Planning	1 Month
Phase 2	Application Development	3 Months
Phase 3	NGO & Pharmaceutical Partnerships	2 Months
Phase 4	Testing & Deployment	2 Months
Phase 5	Launch & Monitoring	2 Months

## 6. Conclusion

This project aims to provide a comprehensive solution to alleviate the financial burden of healthcare expenses on patients. By leveraging technology and fostering collaborations with NGOs and pharmaceutical companies, the Health Expense Assistance Application will make healthcare more accessible and affordable for those in need.