

Project Proposal

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Presented to:

Abdullah Al Mamun, Lecturer
Daffodil International University



The Healthify Team 

TABLE OF CONTENTS

About Us	3
Abstract & Literature Review	4
Target audience	5
Aims & Objectives	
Budget Plan	6
Scope of the Project & Features	7
Principles of Design	8
Schedule of Activities	9
References	10
Legal Permission & Conclusion	11



ABOUT DIGITAL HEALTH SERVICE



Digital health service or digital healthcare, is a broad, multidisciplinary concept that includes concepts from an intersection between technology and healthcare. Digital health applies digital transformation to the healthcare field, incorporating software, hardware and services. The application of information and communications technology to provide digital health interventions to prevent disease and improve quality of life isn't a new concept.

The Healthify Team



Mahmudul Hasan Nayem
Project Manager

Responsible for overall project planning, coordination, and execution.



Sharmin Alam Mou
UI/UX Designer

Implements the UI designs and frontend functionality using HTML, CSS, and JavaScript.



Mashfiqur Rahman Nehal
Full Stack Developer

Designs the user interface and user experience for the web or mobile application.



Shovayet Hosen Riad
Database Administrator

Designs and maintains the database schema. Manages backups, restores, and data migration tasks..



Abu Hanif
Healthcare Domain Expert

Provides domain-specific knowledge and insights related to emergency medical services and healthcare workflows.



ABSTRACT

Access to high-quality healthcare is still a major barrier for many people in our increasingly digital society, especially those who live in distant places or have limited mobility. We suggest creating a thorough telemedicine application to bridge the gap between patients and healthcare professionals to address this problem. By utilizing state-of-the-art technology, this telemedicine app will enable remote consultations, diagnosis, and treatment, ultimately increasing the efficiency and accessibility of healthcare.

LITERATURE REVIEW

According to 2023 reports, the number of physicians per capita (10,000) in Bangladesh is 3. So, it is seen that there are not enough physicians/doctors to take care of public health. Most of the physicians are settled in big cities. This leads to a big problem for village people to get proper health care. So, our project aim is to provide these village people with proper health care.



TARGET AUDIENCE

- This app is designed to cater to a diverse audience, including busy professionals, families, elderly individuals, patients with chronic conditions, residents of remote areas, tech-savvy users, health enthusiasts, and business travellers.
- By offering flexible and accessible healthcare solutions, the app addresses the needs of individuals with varying lifestyles and requirements.
- Whether it's providing remote consultations for those managing chronic illnesses or offering a convenient healthcare option for families and professionals, our app aims to bridge the gap between healthcare and convenience.

AIMS & OBJECTIVES

Our Health Care and Telemedicine app aims to revolutionize healthcare accessibility by providing users with a comprehensive platform that seamlessly integrates teleconsultation, real-time health monitoring, and efficient appointment management. Our objective is to empower individuals with easy access to healthcare services, fostering proactive health management through telemedicine consultations and personalized health monitoring. The app facilitates secure storage of health records, ensuring a comprehensive medical history for both users and healthcare providers.

BUDGET PLAN

Proposed Budget

To propose a budget for a digital health service project, we first need to consider various factors like development costs, infrastructure expenses, staffing, maintenance, and marketing.

Expenses	Value	Percentage
Development Costs	\$800 - \$1200	22%
Infrastructure Expenses	\$275	12%
Staffing	\$640 per month	20%
Maintenance	\$280	12%
Marketing	\$200	10%
Cost Per Action (CPA)	Register - \$40/install, In-app purchase - \$90 / install, Purchase - \$75 / install, Subscribe - \$35 / install	6%
Contingency	\$455	18%
TOTAL	\$2890	100%

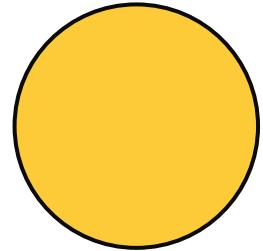


SCOPE OF THE PROJECT & FEATURES



- 1. Objective:** The primary objective of the project is to create a comprehensive system that enhances emergency medical services by integrating ambulance dispatch, medicine management, ICU monitoring, and nurse services coordination.
- 2. Key Goals:** Improve response times for emergency medical services. Enhance communication and coordination between ambulances, medical facilities, and healthcare professionals.
- 3. Ambulance Dispatch:** Real-time tracking of ambulance locations. Automated dispatching based on proximity and availability.
- 4. Medicine Management:** Inventory tracking with low-stock alerts. Prescription management with electronic prescribing capabilities. Integration with pharmacies for automatic refills. Patient medication history tracking for better healthcare decision-making.
- 5. ICU Monitoring:** Real-time monitoring of vital signs and medical equipment. Alarms and notifications for critical events. Data visualization for easy interpretation by medical staff. Remote access for healthcare professionals to monitor patients from anywhere.

PRINCIPLES OF DESIGN



Balance: Achieve balance in the user interface layout to distribute visual weight evenly.

Proportion: Maintain proper proportions in the design elements to create a visually pleasing and harmonious interface.

Colour Combination: A consistent colour scheme throughout the application establishes visual cohesion and reinforces brand identity.

Emphasis: Highlight critical information such as emergency alerts and patient status updates to ensure they are easily noticeable.

Contrast: Utilize contrast to make important elements stand out from the background and improve readability.

Reputation: Uphold the reputation of the healthcare institution by ensuring the system is reliable, secure, and user-friendly.

Unity: Create a cohesive user experience by maintaining consistency in design elements, typography, and imagery. Ensure seamless integration between different modules and functionalities to provide a unified workflow for healthcare professionals.

Schedule of Activities



Timeline

Activities	Schedule
1. Research and planning phase spanning	1-2 weeks
2. The design phase	2-3 weeks
3. For Development	8-12 weeks
4. For Testing	2-4 weeks
5. Deployment	1-2 weeks



References

Developing a successful healthcare and telemedicine app requires a comprehensive approach that encompasses research, planning, design, development, testing, deployment, and post-launch optimization. By thoroughly understanding the needs of target users and analyzing existing market offerings, developers can define clear objectives and features for their apps. Through iterative design and development processes, wireframes and prototypes can be created to visualize the user experience and interface. Robust back-end infrastructure and secure data handling are essential for telemedicine functionalities such as video conferencing and patient record management. Rigorous testing and feedback collection ensure a polished and bug-free app before deployment, while ongoing monitoring and updates based on user insights and technological advancements ensure its long-term success in the evolving landscape of healthcare technology.

Legal Permission



To establish a healthcare business it is essential to register with the concerned government authority. Under the Ministry of Health and Public Welfare, DGHS runs the licensing and renewal process for private hospitals, clinics, blood banks, nursing homes and diagnostic centres all over Bangladesh through an online portal.

To protect trademarks and other IP-related matters, after the registration of the entity, it can apply to the Department of Patents, Designs and Trademarks (DPDT), operated under the Ministry of Industries, for registering its trademarks and/or any other Intellectual Property. An applicant in the prescribed manner has to file with necessary documents for the registration of a trademark to the Trademark Registry Wing of the DPDT.

Conclusion

"To summarize, the proposed project represents a key opportunity to transform our healthcare services and improve the lives of our community members. By addressing the urgent requirement for [insert specific healthcare concern or opportunity], this project attempts to improve patient care, quality of life, and healthcare delivery procedures. We are convinced that via new techniques and strategic collaboration, we will be able to overcome existing barriers and effectively achieve our goals.

The benefits of carrying out this undertaking are enormous and widespread. Not only will it result in real gains in healthcare quality and accessibility, but it will also encourage an innovative and excellence-driven culture within our healthcare system. Furthermore, by improving the distribution of resources and utilizing technology, we expect significant cost reductions and operational efficiencies.

In conclusion, we are excited about this project's novel potential and eager to begin the road toward a healthier, happier, and stronger future for all."