

**Course Code: CSE226**

**"Project Proposal of Group-2"**

**Project Name: Rural Healthcare Locator**

**Topic Name: Project Proposal**

**Submitted By:**

Name: Adib Hasan

ID: 221-15-5002

Section: 61\_T

**Submitted By:**

Name: Abdullah Al Mohimanul

ID: 221-15-5030

Section: 61\_T

**Submitted To:**

Name: Lameya Islam

Designation: Lecturer, Dept. of CSE

Daffodil International University

**December 15, 2023**

**Course Tittle: Software Project I**

**Department of Computer Science and Engineering**

**1.Introduction:**

**Definition of my software project:**

The Rural Healthcare Locator app aims to connect people in rural Bangladesh with essential healthcare services by providing information on hospitals, clinics, pharmacies, and other healthcare providers.

**Importance of my project in modern businesses:**

* Enhances accessibility to healthcare in remote areas.
* Utilizes technology to address critical healthcare needs.
* Improves health outcomes and quality of life in rural communities.

**Project Development Life Cycle (Procedure):**

**Conceptualization:**

* Identifying the need for a healthcare locator app in rural areas.
* Conducting initial market research to understand user requirements.

**Planning:**

* Outlining features and functionalities based on user needs.
* Establishing partnerships with healthcare providers and organizations.

**Development:**

* Creating a user-friendly interface for easy navigation.
* Integrating essential features like appointment booking, telemedicine, and health data tracking.

**Testing:**

* Conducting thorough testing for usability and accuracy.
* Incorporating user feedback for improvements.

**Deployment:**

* Launching the app on relevant platforms.
* Marketing and outreach strategies for user adoption.

**Maintenance and Updates:**

* Regularly updating information on healthcare providers.
* Addressing any issues or bugs reported by users.

**2.Business and Entrepreneurship:**

**Role in Driving Business Innovation:**

The Rural Healthcare Locator app can drive business innovation in the healthcare sector in Bangladesh by:

* Making it easier for people to find and access healthcare services
* Reducing the cost of healthcare delivery
* Improving the quality of healthcare services
* Creating new opportunities for healthcare providers

**Identifying Market Opportunities for Software Solutions:**

The Rural Healthcare Locator app has the potential to address a large and underserved market in Bangladesh. There are over 100 million people living in rural Bangladesh, and many of them do not have easy access to healthcare services. The app can help to fill this gap and provide rural residents with the healthcare they need.

**3.Exploring Business Domains and Risk in Business and Entrepreneurship:**

**Defining Domains of Business:**

The Rural Healthcare Locator app falls into the healthcare business domain. Healthcare is a large and complex domain, but it is also a growing domain with a lot of potential for innovation.

**Analyzing Domains, Specific Challenges and Opportunities:**

One of the main challenges in the healthcare domain is the lack of access to healthcare services in rural areas. The Rural Healthcare Locator app can help to address this challenge by making it easier for people in rural areas to find and access healthcare services.

Another challenge in the healthcare domain is the high cost of healthcare. The Rural Healthcare Locator app can help to reduce the cost of healthcare delivery by making it easier for healthcare providers to reach patients in rural areas.

**Identifying Potential Risks in Business and Entrepreneurship and Developing Strategies for Managing and Mitigating Risks:**

One of the main risks in the healthcare domain is the risk of medical malpractice. To mitigate this risk, the Rural Healthcare Locator app can provide healthcare providers with information about the latest medical practices and guidelines.

Another risk in the healthcare domain is the risk of data breaches. To mitigate this risk, the Rural Healthcare Locator app can use the latest security technologies to protect patient data.

**4.Case Studies:**

**Analysis of real, world-successful software products:**

* Studying successful healthcare apps in other regions.
* Learning from their features, user engagement strategies, and implementation approaches.

**Lessons learned from development and implementation:**

* Emphasizing user feedback and continuous improvement.
* Adapting strategies based on real-world challenges.

**Identifying Factors Contributing to my Project Success:**

Factors that could contribute to the success of the Rural Healthcare Locator app include:

* The app would address a large and underserved market.
* The app would have a positive social impact.
* The app would be easy to use and accessible to a wide range of users.
* The app would be supported by a team of experienced developers and healthcare professionals.

**5.Target Audience and Stakeholder Identification:**

**Target Audience:**

* People living in Bangladesh specially rural people who need to find and access healthcare services
* Healthcare providers in rural Bangladesh
* Government health organizations and NGOs

**Stakeholders:**

* The government of Bangladesh
* Healthcare organizations in Bangladesh
* Non-profit organizations working in the healthcare sector in Bangladesh
* Investors
* The public
* App users

**6.Developing a Business Case/Requirements:**

**Business Case:**

The Rural Healthcare Locator app has the potential to generate revenue by charging healthcare providers a subscription fee to use the app. The app could also generate revenue by selling advertising.

**Requirements for my software project:**

User-friendly interface, GPS navigation, appointment booking, telemedicine, feedback, offline functionality.

**7.Problem Identification and Solution Strategies:**

**Identifying business problems that can be addressed through my software:**

The Rural Healthcare Locator app can address the following business problems:

* Lack of access to healthcare services in rural Bangladesh
* High cost of healthcare delivery
* Inefficiency of healthcare providers
* Lack of awareness about available healthcare options.

**Strategies for problem-Solving using software Solutions, innovation, and creativity in problem-solving:**

The Rural Healthcare Locator app uses the following strategies to solve business problems:

* **Making it easier for people to find and access healthcare services:** The app provides users with information on the location and contact information of healthcare providers in rural Bangladesh. This makes it easier for people to find and access healthcare services, even if they are unfamiliar with the area.
* **Reducing the cost of healthcare delivery:** The app helps healthcare providers to reach patients in rural areas more easily. This can lead to reduced costs for healthcare providers, which can be passed on to patients in the form of lower prices.
* **Improving the efficiency of healthcare providers:** The app helps healthcare providers to manage their time more efficiently. For example, the app can help healthcare providers to schedule appointments and track patient records. This can lead to improved patient care and reduced wait times.

**Innovation and Creativity in problem-Solving:**

One of the ways in which the Rural Healthcare Locator app is innovative is that it uses crowdsourcing to collect data on healthcare providers. This allows the app to provide users with up-to-date information on healthcare providers, even in remote areas.

Another way in which the Rural Healthcare Locator app is innovative is that it uses machine learning to recommend healthcare providers to users. This allows the app to provide users with personalized recommendations based on their individual needs.

**8.Selecting Successful Software Domains:**

**Evaluating Potential Domains for Software Development:**

When evaluating potential domains for software development, it is important to consider the following factors:

* **Market size:** The domain should have a large enough market to support the development and marketing of the software product.
* **Market growth:** The domain should be a growing market with the potential for future growth.
* **Level of competition:** The domain should not be too competitive, as this can make it difficult to differentiate the software product from the competition.
* **Technical feasibility:** The software product should be technically feasible to develop.

**Factors Influencing the Choice of a Software Domain:**

The following factors can influence the choice of a software domain:

* **Expertise:** The software development team should have expertise in the chosen domain.
* **Interest:** The software development team should be interested in the chosen domain.
* **Social impact:** The software development team may want to choose a domain that has the potential to make a positive social impact.

**Matching Domain Strengths with Market Demands:**

When choosing a software domain, it is important to match the domain strengths with market demands. This means choosing a domain that has a large and growing market, and that is not too competitive. It is also important to choose a domain that the software development team has expertise in and is interested in.

**9.Project Proposal / Innovation Challenge:**

**Software Domain:** Healthcare

**Business Problem:** Lack of access to healthcare services in rural Bangladesh

**Preliminary Business Case:**

The Rural Healthcare Locator app can address the lack of access to healthcare services in rural Bangladesh by making it easier for people to find and access healthcare providers. The app can be monetized by charging healthcare providers a subscription fee to use the app.

**Software Solution Concept:**

The Rural Healthcare Locator app will provide users with the following features:

* A map of healthcare providers in rural Bangladesh
* Contact information for healthcare providers
* Information on the services offered by healthcare providers
* Ability to book appointments with healthcare providers
* Ability to track patient records
* Ability to get health information
* User can get emergency support
* Patient can get telemedicine services
* This software can be used in offline

**Innovation Challenge:**

The innovation challenge is to develop a new and innovative way to make the Rural Healthcare Locator app even more useful for people in rural Bangladesh. For example, the app could be developed to support telemedicine or to provide users with personalized recommendations for healthcare providers.

**Conclusion:**

The Rural Healthcare Locator app is a software project that has the potential to make a positive impact on the lives of people in rural Bangladesh. The app can address the lack of access to healthcare services in rural Bangladesh by making it easier for people to find and access healthcare providers. The app can be monetized by charging healthcare providers a subscription fee to use the app.