**PROJECT SYNOPSIS REPORT**

**On**

**Doctor Appointment Booking Website**

Submitted to

Department of Computer Science & Engineering

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Back End Engineering(22CS026)

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**PROBLEM STATEMENT**

Patients often face difficulties in finding nearby doctors, accessing reliable information about their qualifications, and managing appointment bookings efficiently. These challenges result in delays in receiving medical care and increased frustration. There is a need for a user-friendly platform that streamlines doctor search, provides detailed profiles, and simplifies appointment scheduling to enhance healthcare accessibility and improve the overall patient experience.

**TITLE OF THE PROJECT**

Consult Us: A User-Friendly Platform for Simplifying Healthcare Access

**OBJECTIVE AND KEY LEARNING’S**

* **Objective:**
* The objective of the "Consult Us" website is to improve healthcare accessibility by helping users find nearby doctors and providing detailed information about them. It aims to simplify appointment scheduling with an efficient booking system and enhance the user experience through a user-friendly interface. By streamlining these processes, "Consult Us" seeks to make healthcare management more convenient and efficient for both patients and providers.
* **Key Learning’s:**

### 1. User-Centric Design: Focusing on creating a user-friendly interface is crucial for ensuring that users can easily navigate the platform, find doctors, and book appointments without difficulty.

### 2. Integration of Modern Web Technologies: Utilizing technologies like HTML, CSS, JavaScript, Node.js, and MongoDB helped in building a robust and scalable platform capable of handling user data securely and efficiently.

### 3.Importance of Accessibility and Convenience: Streamlining the process of finding healthcare professionals and scheduling appointments directly addresses common user pain points, significantly improving the user experience.

### 4. Data Management and Security: Effective data management, including the storage and retrieval of user and doctor information, is essential. Ensuring data security and privacy is a top priority, given the sensitive nature of healthcare information.

### 5. Scalability and Future Expansion: Building a scalable infrastructure is important for accommodating future features such as telemedicine, mobile app development, and integration with insurance providers, allowing the platform to grow with user needs.

### Options Available to Execute the Project

**1.Development Approach –**

* **In-house development:** Ensures seamless integration with the existing site.
* **Outsourcing:** Provides access to specialized design expertise.

**2.Business Model-**

* **Licensing:** License your platform to medical institutions.
* **Subscription-based:** Charge for premium features or services.
* **Hardware and software bundle:** Offer bundled solutions with hardware and software.
* **Pay-per-use:** Charge users or doctors on a per-appointment or per-feature basis.

**3.Partnerships-**

* **Healthcare Providers**: Partner with clinics and hospitals to feature their services on your platform, offering them visibility and access to new patients
* **Technology Vendors:** Collaborate with tech companies to integrate advanced features or hardware into your platform, enhancing its functionality.
* **Advertising Agencies:** Manage targeted ad campaigns.
* **Medical Associations:** Gain credibility and network access.

**5.Pilot Testing and Rollout-**

* **Phased rollout:** Start by launching the "Consult Us" website to a limited user base in one city, then progressively expand to other cities based on feedback and performance.
* **Geographic targeting:** Start in major cities, then expand to other areas.
* **Customer segmentation:** Focus on patients and healthcare providers.

**Advantages of the Consult Us**

* **Convenient Access:** Allows users to find and book appointments with doctors easily from any location.
* **Enhanced Visibility:** Helps doctors and clinics increase their visibility and attract new patients.
* **Streamlined Management**: Simplifies appointment scheduling and patient management for healthcare providers.
* **Improved Patient Experience**: Provides a user-friendly platform for patients to learn about doctors and manage their healthcare appointments.

**Disadvantages of the Consult Us**

* **Privacy Concerns**: Handling and storing sensitive medical information on the website could pose security and privacy risks.
* **Technical Issues**: Reliance on the website’s technology could lead to potential downtime or bugs affecting user access and functionality.

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