**PROJECT SYNOPSIS**

**REPORT ON**

**HEALTHHUB**

**SUBMITTED**

**TO**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING FOR**

**FULL STACK ENGINEERING**

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**Index**

|  |  |  |
| --- | --- | --- |
| **Sr.no** | **Topic** |  |
| 1 | Problem Statement |  |
| 2 | Title of project |  |
| 3 | Objective & Key Learning’s |  |
| 4 | Options available to execute the project | |
| 5 | Advantages/Disadvantages |  |
| 6 | References |  |

1. **Problem Statement**

* Lack of accessible and reliable health information for individuals to understand diseases and symptoms.
* Limited availability of affordable and convenient healthcare consultations, especially in remote or underserved areas.
* Over-reliance on physical visits to clinics or hospitals for minor health concerns, leading to inefficiencies in healthcare delivery.

1. **Title of Project**

HealthHub: AI-Powered Disease Information and Teleconsultation Platform

1. **Objective & Key Learnings**

**Objective:**

* To create a user-friendly platform that provides AI-driven health information and enables seamless video consultations with certified doctors.
* To bridge the gap between patients and healthcare providers by offering affordable, on-demand medical advice.

**Key Learnings:**

* Understanding AI algorithms for symptom analysis and disease prediction.
* Developing a secure and scalable teleconsultation system.
* Ensuring compliance with healthcare regulations and data privacy laws (e.g., HIPAA, GDPR).
* Gaining insights into user experience design for healthcare applications.

1. **Options Available to Execute the Project**

* Option 1: Develop a mobile app for both Android and iOS platforms.
* Option 2: Create a web-based platform accessible via browsers.
* Option 3: Integrate the platform with existing healthcare systems or electronic health records (EHRs).
* Option 4: Partner with healthcare providers and insurance companies to expand reach and credibility.

1. **Advantages/Disadvantages**  
   **Advantages:**

* Provides instant access to AI-driven health information, reducing unnecessary visits to clinics.
* Offers convenience and flexibility through video consultations with doctors.
* Cost-effective solution for users compared to traditional in-person consultations.
* Scalable and accessible to users in remote or underserved areas.

**Disadvantages:**

* Dependence on internet connectivity for video consultations.
* Potential challenges in ensuring data security and user privacy.
* Limited ability to conduct physical examinations, which may affect diagnosis accuracy.
* Requires continuous updates to AI algorithms to maintain accuracy and relevance.

1. **References**

* Research papers on AI in healthcare and disease prediction.
* Case studies on telemedicine platforms like Teladoc, Practo, and Amwell.
* Guidelines from healthcare regulatory bodies (e.g., WHO, HIPAA, GDPR).
* User feedback and surveys on existing teleconsultation platforms.
* Articles on UX/UI design for healthcare applications.