



DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

PROJECT PROPOSAL

1. Project Title: - Developing a Comprehensive Patient Care System in the Health Sector

2. Project Scope: -

The aim of this project is to design, develop, and implement a Comprehensive Patient Care System in the Health Sector using advanced technologies to enhance patient care, healthcare processes, and improve overall operational efficiency. This system will contain various modules and functionalities to address the diverse needs of healthcare providers, administrators, and patients.

According to a report by the Office of the National Coordinator for Health Information Technology (ONC) in the United States, as of 2020, over 90% of hospitals had adopted electronic health record (EHR) systems and even the use of mobile health applications is on the rise. As of 2019, there were over 318,000 health apps available on major app stores, with the number of mHealth app downloads expected to reach 3.7 billion globally by 2022.

But still, there are many gaps that exist in the existing systems. There is a growing need for healthcare systems that prioritize a patient-centric approach, enhancing patient engagement, empowerment, and personalized care. Platforms that empower patients to actively participate in their healthcare journey and provide tools for remote monitoring and self-management could fill this gap. Many healthcare systems still face challenges in achieving seamless interoperability and efficient data sharing between different healthcare providers and systems. Solutions that facilitate secure and standardized data exchange across diverse platforms and institutions are in demand. While telemedicine has gained popularity, there is a need for comprehensive telemedicine infrastructure that includes standardized protocols, secure communication channels, and interoperability with other healthcare systems.

This project aims at eliminating all of the above-mentioned gaps in the existing systems and create a system which is close to patients and the healthcare providers at the same time. A platform which can standardise the data exchange between various healthcare providers and make the whole system transparent and efficient. Through this project we seek to contribute to the ongoing evolution of the healthcare landscape and make this world a better place to live in.

3. Requirements: -

➤ Hardware Requirements

1. Servers and Storage
2. Workstations
3. Strong Networking

➤ Software Requirements

1. Various Management systems such as Patient Management, Record Management, Billing, workflow etc.
2. Mobile Application
3. Tools for Analysis and Predictions.

STUDENTS DETAILS

Name	UID	Signature
Giftson Johnson	22BDO10054	
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APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

Name	Title	Signature (With Date)