

System Request

Project Name: MediConnection

Business Need:

XYZ Hospital wants to improve the efficiency of healthcare delivery and enhance the patient experience by providing a virtual health assistant that connects patients with licensed healthcare providers in real-time. The software should allow patients to access medical advice, recommendations, and prescriptions without the need for in-person visits. The software should also allow healthcare providers to access and share patient information seamlessly.

1. Automated and ease in medical procedures mainly through facilitated medication intake, improved scheduling services, simple messaging, etc.
2. Easy communication/accessibility between doctors and their patients without limiting in-person walk-ins and consultations if possible.
3. Tracking medication to see if the patient is properly using the medication by the doctor, which can inform the doctor's choices for re-prescriptions or advanced treatment.

Functionality:

1. Ability to make and use user profiles in order save and keep track of important data
2. Appointment/Consulting bookings.
3. Reminder system to alert patients about appointments and dosage timings
4. Analytics and data visualization (Visualizations of patient dosage data in the form of graphs and charts).
5. Practitioner referral system
6. Patient registration and medical history tracking
7. Symptom tracking and biometric data monitoring
1. Communication with healthcare providers via video or text chat
2. Access to a comprehensive database of health information
3. Availability of feature for patients to write their symptoms and receive advice from healthcare advisors within a specific condition
4. Access to electronic health records (EHRs) and other healthcare technologies
5. Integration with XYZ Hospital's existing healthcare systems
6. Secure data transmission and storage

Expected Value:

Tangible:

1. 60% increase in patient treatment and medicine and proper dosage intake.
2. 40% increased the ease and efficiency of doctor-patient communication
3. 30% Improved efficiency of healthcare delivery
1. 50% Reduced cost of in-person visits
2. 30% Increased revenue through telemedicine consultations
3. 73% Increased patient satisfaction and loyalty

Intangible:

1. Improve user comfort in the hospital
2. Flexibility of registration and access
3. Reduce waiting times at hospitals
4. Easy payment of medical fees
5. Improved reputation and brand image for XYZ Hospital
6. Increased trust in healthcare providers
7. Increased patient engagement with healthcare

Special Issues or Constraints:

1. Access restricted to registered members only
2. Scheduled maintenance of system every 2 months from midnight to 2 am
3. Availability of system 24/7 except for maintenance hours
4. Compliance with healthcare regulations and data privacy laws
1. Integration with existing healthcare systems may require additional customization and development
2. Ensuring adequate training and support for healthcare providers using the software
3. Ensuring accessibility and usability for patients with disabilities or limited technology access.