

7. ADOPTION OF MODULES

7.1 Admin Module

The Admin Module acts as the central control hub for managing hospitals, doctors, labs, and system settings. It oversees the entire Connected Care network, ensuring that only authorized users and hospitals participate in the system.

- 1. Admin Login:** Provides a secure login for the central administrator to access the system.
- 2. Hospital Registration and Management:** The admin can Manage hospitals and manage their profiles, including Approval/Reject and monitoring of hospital activities.
- 3. Doctor Management:** The admin can Manage Doctors and manage their profiles, including Approval/Reject and monitoring of Doctors activities
- 4. Lab Management:** Enables the management of laboratory services within specific hospitals.
- 5. Insurance Management:** The admin can insurance and manage their profiles, including Insurance Approval Details and monitoring of insurance activities.
- 6. System Monitoring and Reporting:** Provides comprehensive monitoring of hospital activities, usage statistics, and audit trails for transparency and security.

7.2 Hospital Module

The Hospital Module manages all hospital-level operations, including patient management, doctor scheduling and insurance processing. It ensures smooth day-to-day operations while remaining integrated with the centralized system.

- 1. Hospital Login:** Enables hospital administrators and staff to securely access the hospital system.
- 2. Patient Management:** Handles patient registration, admission and the management of patient medical records the hospital.
- 3. Doctor Management:** Schedules doctor appointments, assigns doctors to departments, and manages their daily activities.
- 4. Blood/Organ Donor Matching:**
- 5. Insurance Claim Processing:** Submits and tracks insurance claims for patient treatments, ensuring claims are processed in a timely manner
- 6. Dashboard Analytics:** Displays real-time analytics regarding hospital resources, patient flow, appointments, and insurance claims.

7.3. Doctor Module

The Doctor Module allows doctors to manage patient consultations, view and update medical records, prescribe treatments, and check laboratory reports. It is designed to support doctors in delivering high-quality care efficiently.

- 1. Doctor Login:** Secure login for doctors to access their personalized homepage.
- 2. View Patient Records:** Provides access to comprehensive patient histories, previous diagnoses, prescriptions, and medical files.
- 3. Prescription Management:** Enables doctors to create, edit, and send electronic prescriptions directly to patients
- 4. Lab Report Review:** Allows doctors to review laboratory reports and incorporate findings into the patient's treatment plan.
- 5. Insurance Status Verification:** Displays a patient's insurance coverage and claim status to inform treatment decisions and ensure compliance with policy terms.

7.4. Patient Module

The Patient Module empowers patients by giving them access to their medical records, appointments, prescriptions, lab reports, and insurance claims. It fosters patient engagement and simplifies their interaction with the healthcare system.

- 1. Patient Registration and Login:** Patients can create an account and securely log in to access system features.
- 2. Appointment Booking:** Patients can search for doctors, select time slots, and book appointments across different hospitals in the network.
- 3. Doctor Selection:** Allows patients to choose doctors based on specialization, availability, and hospital location.
- 4. View Prescriptions:** Enables patients to view, download, and prescriptions details.
- 5. Lab Report Access:** Provides access to lab test results shared by labs or doctors.
- 6. Insurance Enrollment:** Patients can enroll in or link existing health insurance policies with their profiles.
- 7. Insurance Claim Tracking:** Tracks the status of insurance claims submitted by the hospital or directly by the patient.
- 8. Chatbot Support:** Offers a chatbot feature to answer patient queries related to appointments, reports, and insurance claims.

7.5. Lab Module

The Lab Module manages laboratory-related processes such as receiving test requests from doctors, conducting tests, generating reports, and sharing them with patients and doctors.

- 1. Lab Login:** Allows authorized lab technicians and staff to securely access lab operations.
- 2. Lab Registration and Approval:** Labs are registered and approved by the admin to operate within the Connected Care network.
- 3. Receive Test Requests:** Lab staff receive requests for diagnostic tests directly from doctors through the system.
- 4. Conduct Lab Tests:** Labs perform various tests, such as blood tests, imaging, and biopsies, as requested.
- 5. Generate Reports:** After tests are complete, labs generate detailed reports.
- 6. Share Reports:** Lab reports are uploaded to the system and shared with doctors and patients for review and further treatment.

7.6. Insurance Module

The Insurance Module manages patient insurance policies, claim processing, verification, and status updates. It helps reduce the time and effort required for insurance-related tasks by automating them.

- 1. Insurance Login** Allows authorized Insurance technicians and staff to securely access Insurance operations.
- 2. Policy Registration:** Patients can register for new insurance policies or link their existing ones through the system.
- 3. Claim Submission:** Hospitals and patients can submit claims for medical treatments, surgeries, and hospitalizations.
- 4. Coverage Verification:** The system verifies whether patients' treatments are covered by their insurance policies and notifies stakeholders.
- 5. Payment Disbursement:** Once claims are approved, payments are processed and transferred directly to hospitals, reducing out-of-pocket expenses for patients.