AMAL JYOTHI
COLLEGE OF ENGINEERING
(AUTONOMOUS)

E-CARE SOLUTION

23MCA245 - Mini Project

Scrum Master

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ABSTRACT

Topic : eCare Solution

About

The eCare Solution is an healthcare platform designed to enhance the management and monitoring of patient health through a centralized, digital system. This mini-project aims to develop a web application using React-js for an Health care platform. This platform facilitate stroing the patients data are effiently and monitoring these data and provide alert by email or phone call.

The project emphasizes user-friendliness with an interface, scalability for future growth, and robust security measures. **Chronic diseases** require consistent monitoring and management to maintain optimal health. eCare will empower patients and improve care coordination.

Modules

1. **Admin**
2. **Care Co-ordinator**
3. **User Patients**
4. **Doctor**

1) **Admin**:

- Manages acces of Care co-ordinator, Patients, Doctor
- System configuration and
- Data security.

2) **Care Co-ordinator**:

- Care coordinators securely enter and manage patient health data (blood sugar, blood pressure, thyroid, cholesterol, dialysis, etc.) , providing a centralized platform for vital signs and health metrics.
- The platform facilitates communication to the patients, enabling timely interventions and personalized care plans
- Can generate alerts for abnormal readings or upcoming appointments, and care coordinators can send targeted messages to patients.

3) **User(Patients)**

- Logs in to the view personal health data, receive alerts and messages from care co-ordinators, and potentially track health trends or manage medications
- Patients can access their health information, fostering patient engagement and self-care.
- Appointment scheduling: Integrates appointment scheduling with reminders and notifications.
- Displays relevant health metrics, alerts, and messages.
- Facilitate online payment for Consultation.

4) Doctor:

- Remote consultation with patients
- Utilize video conferenceing or messeging features
- Can prescribe medicine, to the patients dashboard

Benefits:

- Improved patient engagement and self-care through data access.
- Enhanced care coordination and communication between patients and care providers.
- Timely interventions and personalized care plans based on monitored health data.
- Potential cost savings through proactive health management and reduced complications.

Future Enhancement

1. **Personal Health Coach**:
    - Introduce a virtual health coach feature that provides personalized health insights and recommendations based on individual health data.
    - This coach could offer motivational messages, tips for managing chronic conditions, and reminders for medication adherence tailored to each patient's needs.
2. **Family Care Integration**
    - Enable family members or caregivers to securely access patient information and participate in care coordination.
    - Provide features for family members to receive alerts and updates, facilitating better support and involvement in the patient's healthcare journey.

3. **Integration with Electronic Health Records (EHR)**:

    - Establish external EHR systems to streamline data exchange and continuity of care across different healthcare settings

4. **Including Health Insurance**

    - Including Health Insurance company for Paying Hospital Fees

Technologies used:

- **Front End**
  - React JS

- **Back End**
  - Node JS
  - Mongo DB