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COLLEGE OF ENGINEERING
(AUTONOMOUS)

NURTURENEST

20INMCA509 - Mini Project 2

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**DEPARTMENT OF
COMPUTER APPLICATIONS**



ABSTRACT

NurtureNest: Ultimate Baby Health and Growth Companion

Abstract

NurtureNest: Ultimate Baby Health and Growth Companion is an innovative web-based platform designed to assist parents in managing their baby's health and developmental milestones effectively. The website focuses primarily on scheduling vaccination appointments and providing timely notifications for each vaccine necessary for the child's health. Additionally, NurtureNest offers periodic updates about the baby's growth every three months, including recommendations on nutrition and activities suitable for their age. The system ensures that parents have all the information they need to nurture their child's growth and well-being seamlessly. NurtureNest employs machine learning algorithms to analyse growth data, swiftly identifying deviations from typical patterns and enabling proactive intervention.

Mini Project - II

Main Modules

1. User Module (Parents)

- **Registration and Login:** Allows parents to create an account and log in securely.
- **Profile Management:** Parents can manage their child's profile, including personal details and medical history.
- **Vaccination Schedule:** Displays the vaccination schedule and allows parents to book appointments.
- **Notifications:** Sends reminders for upcoming vaccinations and health check-ups via email or SMS.
- **Nutritional Guidance:** Recommends age-appropriate foods and dietary plans.
- **Activity Suggestions:** Offers suggestions for activities and exercises based on the child's age and developmental stage.
- **Health Tips:** Provides general health tips and advice for parents.

2. Admin Module

- **User Management:** Allows administrators to manage user accounts, including adding, editing, or deleting profiles.
- **Vaccination Management:** Admins can update the vaccination schedule, add new vaccines, and manage appointments.
- **Content Management:** Admins can update nutritional guidelines, growth-related content, and health tips.
- **Notification Management:** Configures and sends notifications to users.
- **Report Generation:** Generates reports on vaccination status, user activity, and system usage.

3. Healthcare Provider Module

- **Provider Registration and Login:** Allows healthcare providers to create accounts and log in securely.
- **Patient Management:** Providers can view and manage patient profiles, including medical history and vaccination records.
- **Appointment Management:** Providers can view, approve, or reschedule appointments requested by parents.
- **Vaccination Records Update:** Providers can update the vaccination status after each appointment, ensuring the records are up to date.
- **Health Reports:** Providers can generate and upload health reports, growth charts, and developmental assessments for individual patients.
- **Telemedicine Services:** Enables providers to conduct virtual consultations and follow-ups with parents.
- **Communication:** Facilitates secure messaging between healthcare providers and parents for any queries or follow-ups.

Main Project

- **Machine Learning Algorithms:** Utilizes machine learning to analyze growth data and detect deviations from typical growth patterns.
- **Predictive Analytics:** Offers predictions and early warnings about potential growth issues based on historical data and trends.
- **Virtual Consultations:** Facilitates virtual doctor consultations for parents to discuss health concerns without visiting a clinic.
- **Personalized Health Recommendations**
- **Chatbot Support**

