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<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <title>Health Monitoring System</title>
  <style>
    body {
      padding: 25px;
      font-family: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;
      background: linear-gradient(135deg, #0f2027, #203a43, #2c5364);
      color: #b2ebf2;
    }
    .title {
      color: #5C6AC4;
      text-align: center;
      font-size: 2rem;
      margin-bottom: 20px;
      position: relative;
      letter-spacing: 0.5px;
      text-shadow: 0 0 4px rgba(92,106,196,0.8), 0 0 12px rgba(92,106,196,0.6);
    }
    .container {
      background: rgba(0, 77, 96, 0.9);
      padding: 30px;
      border-radius: 15px;
      max-width: 750px;
      margin: auto;
    }
    label { display: block; margin-top: 10px; margin-bottom: 5px; }
    input {
      width: 100%; padding: 10px; border-radius: 8px; border: none; margin-
bottom: 10px;
    }
    button {
      margin-top: 10px; padding: 10px; border-radius: 10px;
      border: none; cursor: pointer; background: #00e5ff; font-weight: bold;
    }
    button#resetBtn { background: #f44336; color: white; }
    table { width: 100%; border-collapse: collapse; margin-top: 15px; }
    th, td { padding: 8px; border-bottom: 1px solid #00bcd4; text-align: left; }
    .normal { color: #4caf50; font-weight: bold; }
    .abnormal { color: #f44336; font-weight: bold; }
    .summary { margin-top: 15px; text-align: center; font-size: 1.2rem; font-
weight: bold; }
    .summary.abnormal { color: #f44336; }
    .summary.normal { color: #4caf50; }
    .location { margin-top: 10px; font-size: 1rem; font-weight: bold; color:
#ffeb3b; }
    #currentTime { margin-top: 15px; font-size: 1.1rem; text-align: center;
color: #ffcc80; font-weight: bold; }
  </style>
</head>
<body>
  <div class="container" role="main">
    <h1 class="title">Wireless Health Monitoring System</h1>
    <form id="healthForm">
      <label for="name">Patient Name:</label>
      <input type="text" id="name" name="name" placeholder="Enter patient name"
required />
      <label for="age">Age:</label>
      <input type="number" id="age" name="age" placeholder="Enter patient age"
min="0" max="120" step="1" required />
      <button type="submit" id="submitBtn">Submit</button>

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    <button type="button" id="resetBtn">Reset</button>
</form>

<div id="results" class="results" style="display:none;">
  <div class="patient-info" id="patientInfo"></div>
  <div class="location" id="locationInfo">📍 Detecting location...</div>
  <table>
    <thead><tr><th>Parameter</th><th>Value</th></tr></thead>
    <tbody id="parametersTable"></tbody>
  </table>
</div>

<div id="summary" class="summary"></div>
<p id="currentTime"></p>
</div>

<script>
  const form = document.getElementById('healthForm');
  const resultsDiv = document.getElementById('results');
  const summaryDiv = document.getElementById('summary');
  const patientInfoDiv = document.getElementById('patientInfo');
  const parametersTableBody = document.getElementById('parametersTable');
  const locationInfo = document.getElementById('locationInfo');

  const indianNames =
["Aarav", "Vivaan", "Aditya", "Vihaan", "Arjun", "Sai", "Krishna", "Ishaan", "Rohan", "Ar
yan",

"Karthik", "Pranav", "Rudra", "Siddharth", "Rishi", "Kabir", "Anirudh", "Manoj", "Puneet
", "Harsha",

"Lakshmi", "Ananya", "Kavya", "Divya", "Sneha", "Aishwarya", "Priya", "Sahana", "Shreya"
, "Radhika",

"Meera", "Pooja", "Keerthi", "Nandini", "Swathi", "Bhavana", "Chaitra", "Navya", "Sindhu
", "Bindu",

"Rajesh", "Suresh", "Mahesh", "Ramesh", "Gopal", "Venkatesh", "Sanjay", "Anand", "Sunil"
, "Vinay",

"Abhishek", "Ashok", "Deepak", "Kiran", "Naveen", "Ravi", "Shiva", "Mohan", "Ajay", "Uday
",

"Tejas", "Darshan", "Varun", "Rahul", "Omkar", "Harish", "Yash", "Nikhil", "Chetan", "Sha
rath",

"Smitha", "Geetha", "Jyothi", "Rekha", "Radha", "Madhuri", "Seema", "Vidya", "Rupa", "Sun
itha",

"Padma", "Gayathri", "Archana", "Latha", "Malini", "Pushpa", "Sowmya", "Uma", "Anitha", "
Sandhya"
  ];

  function randomFloat(min, max, decimals = 1) {
    return parseFloat((Math.random() * (max - min) + min).toFixed(decimals));
  }
  function randomInt(min, max) {
    return Math.floor(Math.random() * (max - min + 1)) + min;
  }

  function generateParameters() {
    const temperature = randomFloat(35, 39);
    const spo2 = randomInt(90, 100);
    const heartRate = randomInt(50, 110);

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const bedNumber = randomInt(1, 100);
return {
  bedNumber,
  parameters: [
    { name: 'Body Temperature', value: `${temperature} °C`, normal:
temperature >= 36.1 && temperature <= 37.2 },
    { name: 'SpO2 Level', value: `${spo2} %`, normal: spo2 >= 95 && spo2
<= 100 },
    { name: 'Heart Rate', value: `${heartRate} bpm`, normal: heartRate >=
60 && heartRate <= 100 }
  ]
};
}

function renderResults(name, age, bedNumber, parameters) {
  patientInfoDiv.textContent = `Patient: ${name}, Age: ${age}, Bed No: $
{bedNumber}`;
  parametersTableBody.innerHTML = '';
  parameters.forEach(p => {
    const tr = document.createElement('tr');
    tr.innerHTML = `<td>${p.name}</td><td class="${p.normal ? 'normal' :
'abnormal'}">${p.value}</td>`;
    parametersTableBody.appendChild(tr);
  });
}

function fetchLocation() {
  if (navigator.geolocation) {
    navigator.geolocation.getCurrentPosition(success, error);
  } else {
    locationInfo.textContent = "❌ Geolocation not supported by browser.";
  }
  function success(position) {
    const lat = position.coords.latitude;
    const lon = position.coords.longitude;
    fetch(`https://nominatim.openstreetmap.org/reverse?format=jsonv2&lat=$
{lat}&lon=${lon}`)
      .then(res => res.json())
      .then(data => {
        if (data.address) {
          locationInfo.textContent =
`📍 Location: ${data.address.village || data.address.town ||
data.address.city || ''}, `
          + `${data.address.county || ''}, ${data.address.state || ''}, $
{data.address.country}`;
        } else {
          locationInfo.textContent = "⚠️ Location details not found.";
        }
      })
      .catch(() => { locationInfo.textContent = "⚠️ Unable to fetch location
details."; });
  }
  function error() {
    locationInfo.textContent = "⚠️ Location not available.";
  }
}

function updateRandomPatient() {
  const name = indianNames[randomInt(0, indianNames.length - 1)];
  const age = randomInt(1, 90);
  const { bedNumber, parameters } = generateParameters();
  renderResults(name, age, bedNumber, parameters);
  const allNormal = parameters.every(p => p.normal);
  summaryDiv.textContent = allNormal ? "✅ All parameters are normal. Stay

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healthy!" : "⚠ Warning: Some parameters are abnormal. Alert sent to doctor!";
summaryDiv.className = allNormal ? "summary normal" : "summary abnormal";
resultsDiv.style.display = 'block';
fetchLocation();
}

// ✅ Form submit → show entered details first
form.addEventListener('submit', (e) => {
  e.preventDefault();
  const name = document.getElementById('name').value;
  const age = document.getElementById('age').value;

  // Only show name & age initially
  patientInfoDiv.textContent = `Patient: ${name}, Age: ${age}`;
  parametersTableBody.innerHTML = '';
  summaryDiv.textContent = "⌚ Waiting for monitoring data...";
  summaryDiv.className = "summary";
  resultsDiv.style.display = 'block';

  // After 10 seconds → start random updates
  setTimeout(() => {
    updateRandomPatient();
    setInterval(updateRandomPatient, 10000);
  }, 10000);
});

document.getElementById('resetBtn').addEventListener('click', () => {
  form.reset();
  resultsDiv.style.display = 'none';
  summaryDiv.textContent = '';
  summaryDiv.className = "summary";
});

async function fetchGoogleTime() {
  try {
    const response = await
fetch("https://worldtimeapi.org/api/timezone/Asia/Kolkata");
    const data = await response.json();
    const dateTime = new Date(data.datetime);
    const dayName = dateTime.toLocaleDateString('en-US', { weekday:
'long' });
    const dateStr = dateTime.toLocaleDateString('en-US', { year: 'numeric',
month: 'long', day: 'numeric' });
    const timeStr = dateTime.toLocaleString('en-US', {
      hour: 'numeric', minute: 'numeric', second: 'numeric', hour12: true
    });
    document.getElementById('currentTime').innerHTML =
`🕒 Internet Time: ${timeStr} | 🇮🇳 ${dayName}, ${dateStr}`;
  } catch (error) {
    document.getElementById('currentTime').innerHTML = "⚠ Using local
time.";
  }
}

setInterval(fetchGoogleTime, 1000);
fetchGoogleTime();
</script>
</body>
</html>

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