

Q1. import React, { useState } from 'react';

```
const CaloricNeedsCalculator = () => {  
  const [weight, setWeight] = useState("");  
  const [height, setHeight] = useState("");  
  const [age, setAge] = useState("");  
  const [activityLevel, setActivityLevel] = useState("");  
  const [calories, setCalories] = useState(null);  
  const [history, setHistory] = useState([]);  
  
  const calculateCalories = () => {  
    if (weight && height && age && activityLevel) {  
      // Calculate Basal Metabolic Rate (BMR) using Mifflin-St Jeor Equation  
  
      const bmr = 10 * weight + 6.25 * height - 5 * age + 5; // For males; for females, subtract 161  
      instead of adding 5.  
  
      // Multiply BMR by activity factor  
  
      const activityFactors = {  
        sedentary: 1.2,  
        lightlyActive: 1.375,  
        moderatelyActive: 1.55,  
        veryActive: 1.725,  
        superActive: 1.9,  
      };  
  
      const caloricNeeds = (bmr * activityFactors[activityLevel]).toFixed(2);  
      setCalories(caloricNeeds);  
  
      // Add the calculation to history
```

```
setHistory([
  ...history,
  { weight, height, age, activityLevel, calories: caloricNeeds },
]);
} else {
  alert('Please enter all fields');
}
};
```

```
const clearHistory = () => {
  setHistory([]);
};
```

```
return (
  <div style={{ padding: '20px', maxWidth: '400px', margin: 'auto', textAlign: 'center' }}>
    <h2>Caloric Needs Calculator</h2>
```

```
    <div style={{ marginBottom: '10px' }}>
      <label>Weight (kg): </label>
      <input
        type="number"
        value={weight}
        onChange={(e) => setWeight(e.target.value)}
      />
    </div>
```

```
    <div style={{ marginBottom: '10px' }}>
      <label>Height (cm): </label>
      <input
```

```
    type="number"
    value={height}
    onChange={(e) => setHeight(e.target.value)}
  />
</div>
```

```
<div style={{ marginBottom: '10px' }}>
  <label>Age: </label>
  <input
    type="number"
    value={age}
    onChange={(e) => setAge(e.target.value)}
  />
</div>
```

```
<div style={{ marginBottom: '10px' }}>
  <label>Activity Level: </label>
  <select value={activityLevel} onChange={(e) => setActivityLevel(e.target.value)}>
    <option value="">Select</option>
    <option value="sedentary">Sedentary (little or no exercise)</option>
    <option value="lightlyActive">Lightly active (light exercise/sports 1-3 days/week)</option>
    <option value="moderatelyActive">Moderately active (moderate exercise/sports 3-5
days/week)</option>
    <option value="veryActive">Very active (hard exercise/sports 6-7 days a week)</option>
    <option value="superActive">Super active (very hard exercise & a physical job)</option>
  </select>
</div>
```

```
<button onClick={calculateCalories}>Calculate Caloric Needs</button>
```

```
{calories && (  
  <div style={{ marginTop: '20px' }}>  
    <h3>Daily Caloric Needs: {calories} kcal</h3>  
  </div>  
)}
```

```
<h3>Calculation History</h3>  
<button onClick={clearHistory} style={{ marginBottom: '10px' }}>Clear History</button>  
<table border="1" style={{ width: '100%', marginTop: '10px' }}>  
  <thead>  
    <tr>  
      <th>Weight (kg)</th>  
      <th>Height (cm)</th>  
      <th>Age</th>  
      <th>Activity Level</th>  
      <th>Calories Needed (kcal)</th>  
    </tr>  
  </thead>  
  <tbody>  
    {history.map((entry, index) => (  
      <tr key={index}>  
        <td>{entry.weight}</td>  
        <td>{entry.height}</td>  
        <td>{entry.age}</td>  
        <td>{entry.activityLevel}</td>  
        <td>{entry.calories}</td>  
      </tr>  
    ))}
```

```

    </tbody>

  </table>

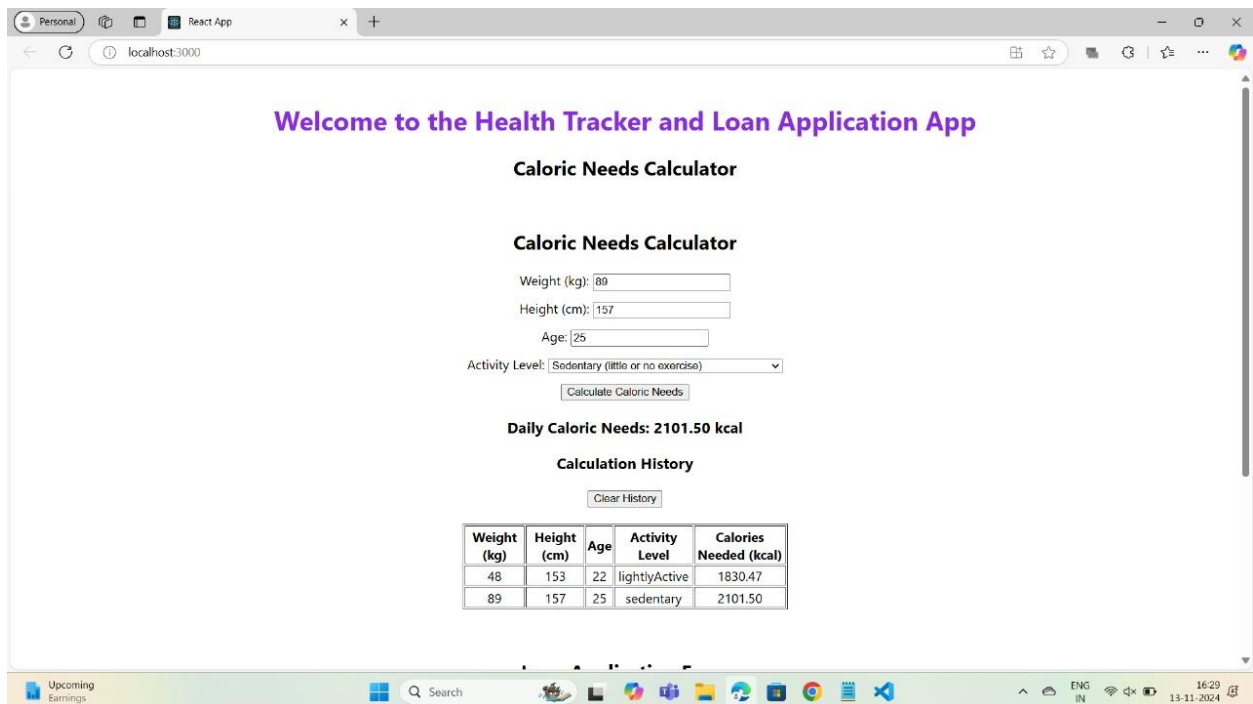
</div>

);

};

export default CaloricNeedsCalculator;

```



Q2. import React, { useState } from 'react';

```

const LoanApplicationForm = () => {
  const [step, setStep] = useState(1); // Keeps track of the current step
  const [personalInfo, setPersonalInfo] = useState({ name: "", email: "", phone: "" });
  const [loanDetails, setLoanDetails] = useState({ amount: "", term: "", purpose: "" });
  const [incomeVerification, setIncomeVerification] = useState({ income: "", document: "" });
  const [errors, setErrors] = useState({});

```

```
// Validate Personal Information
```

```
const validatePersonalInfo = () => {  
  const errors = {};  
  if (!personalInfo.name) errors.name = 'Name is required';  
  if (!personalInfo.email) errors.email = 'Email is required';  
  if (!personalInfo.phone) errors.phone = 'Phone number is required';  
  setErrors(errors);  
  return Object.keys(errors).length === 0;  
};
```

```
// Validate Loan Details
```

```
const validateLoanDetails = () => {  
  const errors = {};  
  if (!loanDetails.amount) errors.amount = 'Loan amount is required';  
  if (!loanDetails.term) errors.term = 'Loan term is required';  
  if (!loanDetails.purpose) errors.purpose = 'Purpose of loan is required';  
  setErrors(errors);  
  return Object.keys(errors).length === 0;  
};
```

```
// Validate Income Verification
```

```
const validateIncomeVerification = () => {  
  const errors = {};  
  if (!incomeVerification.income) errors.income = 'Income is required';  
  if (!incomeVerification.document) errors.document = 'Income verification document is required';  
  setErrors(errors);  
  return Object.keys(errors).length === 0;  
};
```

```

// Handle Next Step

const handleNext = () => {
  if (step === 1 && validatePersonalInfo()) {
    setStep(step + 1);
  } else if (step === 2 && validateLoanDetails()) {
    setStep(step + 1);
  } else if (step === 3 && validateIncomeVerification()) {
    alert('Loan application submitted successfully!');
  }
};

// Handle Input Change

const handleChange = (e, step) => {
  const { name, value } = e.target;

  if (step === 1) {
    setPersonalInfo({ ...personalInfo, [name]: value });
  } else if (step === 2) {
    setLoanDetails({ ...loanDetails, [name]: value });
  } else if (step === 3) {
    setIncomeVerification({ ...incomeVerification, [name]: value });
  }
};

return (
  <div style={{ maxWidth: '600px', margin: 'auto', padding: '20px' }}>
    <h2>Loan Application Form</h2>
    <form>
      {step === 1 && (

```

```
<div>

<h3>Step 1: Personal Information</h3>

<div>

  <label>Name:</label>

  <input

    type="text"

    name="name"

    value={personallInfo.name}

    onChange={(e) => handleChange(e, 1)}

  />

  {errors.name && <p style={{ color: 'red' }}>{errors.name}</p>}

</div>

<div>

  <label>Email:</label>

  <input

    type="email"

    name="email"

    value={personallInfo.email}

    onChange={(e) => handleChange(e, 1)}

  />

  {errors.email && <p style={{ color: 'red' }}>{errors.email}</p>}

</div>

<div>

  <label>Phone Number:</label>

  <input

    type="tel"

    name="phone"

    value={personallInfo.phone}

    onChange={(e) => handleChange(e, 1)}

  />

  {errors.phone && <p style={{ color: 'red' }}>{errors.phone}</p>}

</div>

</div>
```



```
    />
    {errors.phone && <p style={{ color: 'red' }}>{errors.phone}</p>}
  </div>
</div>
}}
```

```
{step === 2 && (
  <div>
    <h3>Step 2: Loan Details</h3>
    <div>
      <label>Loan Amount:</label>
      <input
        type="number"
        name="amount"
        value={loanDetails.amount}
        onChange={(e) => handleChange(e, 2)}
      />
      {errors.amount && <p style={{ color: 'red' }}>{errors.amount}</p>}
    </div>
    <div>
      <label>Loan Term (Years):</label>
      <input
        type="number"
        name="term"
        value={loanDetails.term}
        onChange={(e) => handleChange(e, 2)}
      />
      {errors.term && <p style={{ color: 'red' }}>{errors.term}</p>}
    </div>
  </div>
}
```

```
<div>

  <label>Purpose of Loan:</label>

  <input
    type="text"
    name="purpose"
    value={loanDetails.purpose}
    onChange={(e) => handleChange(e, 2)}
  />

  {errors.purpose && <p style={{ color: 'red' }}>{errors.purpose}</p>}

</div>

</div>

)}
```

```
{step === 3 && (
  <div>

    <h3>Step 3: Income Verification</h3>

    <div>

      <label>Monthly Income:</label>

      <input
        type="number"
        name="income"
        value={incomeVerification.income}
        onChange={(e) => handleChange(e, 3)}
      />

      {errors.income && <p style={{ color: 'red' }}>{errors.income}</p>}

    </div>

    <div>

      <label>Income Verification Document:</label>

      <input
```

```

        type="file"
        name="document"
        onChange={(e) => handleChange(e, 3)}
      />
      {errors.document && <p style={{ color: 'red' }}>{errors.document}</p>}
    </div>
  </div>
)}

<div style={{ marginTop: '20px' }}>
  <button type="button" onClick={handleNext}>
    {step === 3 ? 'Submit Application' : 'Next Step'}
  </button>
</div>
</form>
</div>
);
};

export default LoanApplicationForm;

```

Loan Application Form

Step 1: Personal Information

Name:

Email:

Phone Number:

Loan Application Form

Step 2: Loan Details

Loan Amount:

Loan Term (Years):

Purpose of Loan:

[Next Step](#)

Loan Application Form

Step 3: Income Verification

Monthly Income:

Income Verification Document: foolproof.webp

[Submit Application](#)