Directories

```
loan-approval-frontend/
├─ public/
 - src/
    — components/
        AddUser.jsx
         AddAmount.jsx
         WithdrawAmount.jsx
        ApplyLoan.jsx

    ScoreValidation.jsx

        — HistoryAnalysis.jsx
      pages/
        — HomePage.jsx
        Dashboard.jsx
     - App.js
     - index.js
     - services/api.js
  package.json
_____
Run this in the terminal:
npx create-react-app loan-approval-frontend
cd loan-approval-frontend
npm install react-router-dom axios
index.js
import React from 'react';
import ReactDOM from 'react-dom/client';
import App from './App';
import { BrowserRouter } from 'react-router-dom';
import './index.css';
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
 <BrowserRouter>
   <App />
 </BrowserRouter>
);
```

```
App.js
import React from 'react';
import { Routes, Route } from 'react-router-dom';
import AddUser from './components/AddUser';
import AddAmount from './components/AddAmount';
import WithdrawAmount from './components/WithdrawAmount';
import ApplyLoan from './components/ApplyLoan';
import ScoreValidation from './components/ScoreValidation';
import HistoryAnalysis from './components/HistoryAnalysis';
import HomePage from './pages/HomePage';
function App() {
  return (
    <Routes>
      <Route path="/" element={<HomePage />} />
      <Route path="/register" element={<AddUser />} />
      <Route path="/add-amount" element={<AddAmount />} />
      <Route path="/withdraw" element={<WithdrawAmount />} />
      <Route path="/apply-loan" element={<ApplyLoan />} />
      <Route path="/validate-score" element={<ScoreValidation />} />
      <Route path="/history" element={<HistoryAnalysis />} />
    </Routes>
 );
}
export default App;
components/AddUser.jsx
import React, { useState } from 'react';
import axios from 'axios';
export default function AddUser() {
  const [form, setForm] = useState({ name: '', email: '', password: '' });
  const handleChange = e => {
    setForm({ ...form, [e.target.name]: e.target.value });
  };
```

```
const handleSubmit = async e => {
    e.preventDefault();
    try {
      await axios.post('http://localhost:8080/api/users', form);
      alert('User registered!');
    } catch (err) {
      console.error(err);
      alert('Registration failed');
  };
  return (
    <form onSubmit={handleSubmit}>
      <h2>Register</h2>
      <input name="name" placeholder="Name" onChange={handleChange} required />
      <input name="email" placeholder="Email" type="email" onChange={handleChange}</pre>
required />
      <input name="password" placeholder="Password" type="password"</pre>
onChange={handleChange} required />
      <button type="submit">Register</button>
    </form>
 );
components/AddAmount.jsx
import React, { useState } from 'react';
import axios from 'axios';
export default function AddAmount() {
  const [amount, setAmount] = useState('');
  const handleSubmit = async e => {
    e.preventDefault();
    try {
      await axios.post('http://localhost:8080/api/transactions/add', { amount });
      alert('Amount added successfully!');
    } catch (err) {
      console.error(err);
      alert('Error adding amount');
  };
  return (
```

```
<form onSubmit={handleSubmit}>
      <h2>Add Amount</h2>
      <input</pre>
        type="number"
        placeholder="Enter amount"
        value={amount}
        onChange={e => setAmount(e.target.value)}
        required
      />
      <button type="submit">Add</button>
    </form>
 );
}
components/WithdrawAmount.jsx
import React, { useState } from 'react';
import axios from 'axios';
export default function WithdrawAmount() {
  const [amount, setAmount] = useState('');
  const handleSubmit = async e => {
    e.preventDefault();
    try {
      await axios.post('http://localhost:8080/api/transactions/withdraw', { amount
});
      alert('Amount withdrawn!');
    } catch (err) {
      console.error(err);
      alert('Withdrawal failed');
  };
  return (
    <form onSubmit={handleSubmit}>
      <h2>Withdraw Amount</h2>
      <input
        type="number"
        placeholder="Enter amount"
        value={amount}
        onChange={e => setAmount(e.target.value)}
        required
      />
```

```
<button type="submit">Withdraw</button>
    </form>
 );
components/ApplyLoan.jsx
import React, { useState } from 'react';
import axios from 'axios';
export default function ApplyLoan() {
  const [loanData, setLoanData] = useState({
    amount: '',
    duration: ''
    purpose: ''
  });
  const handleChange = e => {
    setLoanData({ ...loanData, [e.target.name]: e.target.value });
  };
  const handleSubmit = async e => {
    e.preventDefault();
    try {
      await axios.post('http://localhost:8080/api/loans/apply', loanData);
      alert('Loan application submitted!');
    } catch (err) {
      console.error(err);
      alert('Loan application failed');
  };
  return (
    <form onSubmit={handleSubmit}>
      <h2>Apply for Loan</h2>
      <input name="amount" placeholder="Amount" onChange={handleChange} required />
      <input name="duration" placeholder="Duration (months)" onChange={handleChange}</pre>
required />
      <input name="purpose" placeholder="Purpose" onChange={handleChange} required</pre>
/>
      <button type="submit">Apply</button>
    </form>
 );
}
```

```
components/ScoreValidation.jsx
import React, { useState } from 'react';
import axios from 'axios';
export default function ScoreValidation() {
  const [userId, setUserId] = useState('');
  const handleCheck = async () => {
    try {
      const res = await axios.get(`http://localhost:8080/api/score/${userId}`);
      alert(`Credit Score: ${res.data.score}`);
    } catch (err) {
      console.error(err);
      alert('Failed to fetch score');
  };
  return (
    <div>
      <h2>Validate Credit Score</h2>
      <input placeholder="Enter User ID" value={userId} onChange={e =>
setUserId(e.target.value)} />
      <button onClick={handleCheck}>Check Score</button>
    </div>
 );
components/HistoryAnalysis.jsx
import React, { useEffect, useState } from 'react';
import axios from 'axios';
export default function HistoryAnalysis() {
  const [transactions, setTransactions] = useState([]);
  useEffect(() => {
    const fetchHistory = async () => {
      try {
        const res = await axios.get('http://localhost:8080/api/history');
        setTransactions(res.data);
```

```
} catch (err) {
       console.error(err);
     }
   };
   fetchHistory();
 }, []);
 return (
   <div>
     <h2>Transaction History</h2>
     <l
      {transactions.map((txn, index) => (
        {txn.date} - {txn.type} - ${txn.amount}
        ))}
     </div>
 );
----
pages/HomePage.jsx
import React from 'react';
import { Link } from 'react-router-dom';
export default function HomePage() {
 return (
   <div>
     <h1>Loan Approval System</h1>
     <nav>
       <l
        <Link to="/register">Add User</Link>
        <Link to="/add-amount">Add Amount</Link>
        <Link to="/withdraw">Withdraw Amount</Link>
        <Link to="/apply-loan">Apply for Loan</Link>
        <Link to="/validate-score">Validate Score</Link>
        <Link to="/history">Transaction History</Link>
      </nav>
   </div>
 );
```