**User Guide: Banking System with React & Node.js**

**1. Introduction**

This document provides a step-by-step guide on using the Asset-x banking system with a React frontend and a Node.js backend. Users will learn how to sign up, manage accounts, and perform transactions securely.

**2. Setting Up the Project**

To get started, install Node.js and create a React project:   
1. Install Node.js from https://nodejs.org/   
2. Create a new React project: `npx create-react-app bank-frontend`   
3. Set up a backend: `mkdir bank-backend && cd bank-backend && npm init -y`

**3. User Signup & Account Creation**

Users must first sign up and create an account. The backend API provides an endpoint:- `POST /api/signup` - Creates a new account.

- `POST /api/login` - Authenticates users and returns a token.

**4. Performing Transactions**

Once logged in, users can perform the following transactions:- `POST /api/deposit` - Deposit money into an account.  
- `POST /api/withdraw` - Withdraw money from an account.- `GET /api/balance` - Check account balance.

**5. Testing the System**

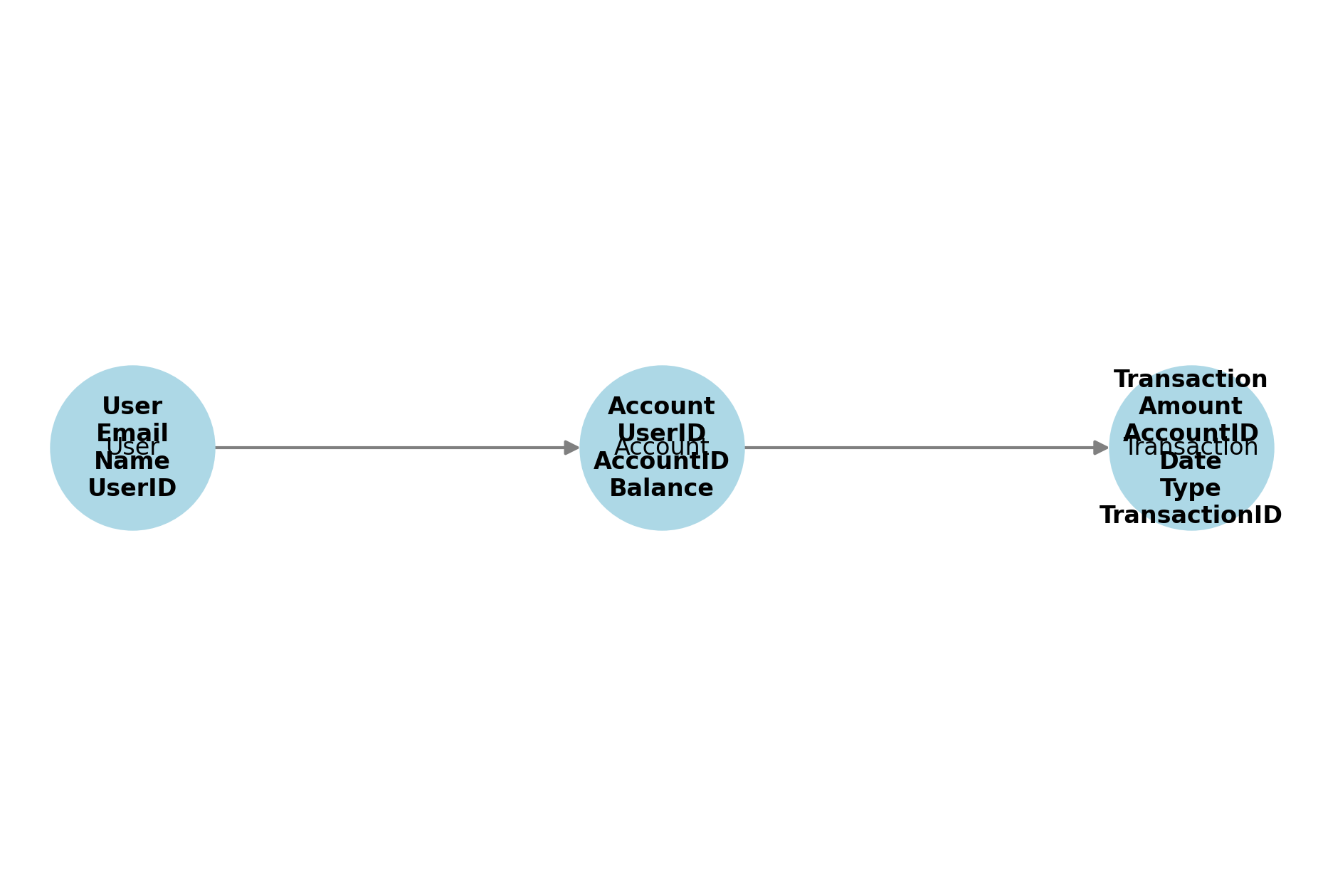
Users can test the banking system using tools like Postman to make API requests. Ensure correct authentication by including the token in requests.

**6. Security & Best Practices**

For security, users should:  
- Use strong passwords.

- Enable two-factor authentication (2FA).  
- Avoid sharing login credentials.

**7. ER-Diagram**



**8. User Flow**

1. The user signs up and creates an account.

2. Upon registration, the system assigns an account to the user.

3. The user can deposit money using the \*\*Deposit API\*\*.

4. The user can withdraw money using the \*\*Withdraw API\*\*. 5. The user can check their balance using the \*\*Balance API\*\*.

**9. Key Features**

1. \*\*User API\*\* - Allows users to sign up and authenticate. 2. \*\*Account API\*\* - Creates an account for a registered user. 3. \*\*Deposit API\*\* - Deposits money into an account.

4. \*\*Withdraw API\*\* - Withdraws money from an account. 5. \*\*Balance API\*\* - Fetches the current balance of an account.