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README(ENG)

🌳 Finance Tree

Project Overview

Finance Tree is a system that allows users to create and manage **branches** based on a tree structure, recording and viewing **transactions** for each branch. Users can add, modify, or delete transactions, and upload related receipts for better transaction management.

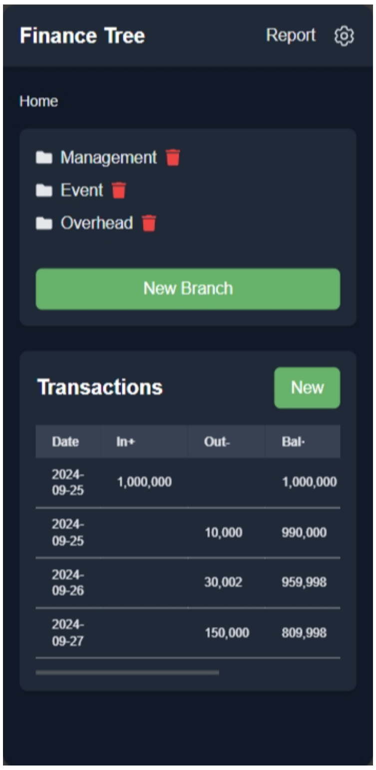
🎯 Key Goals:

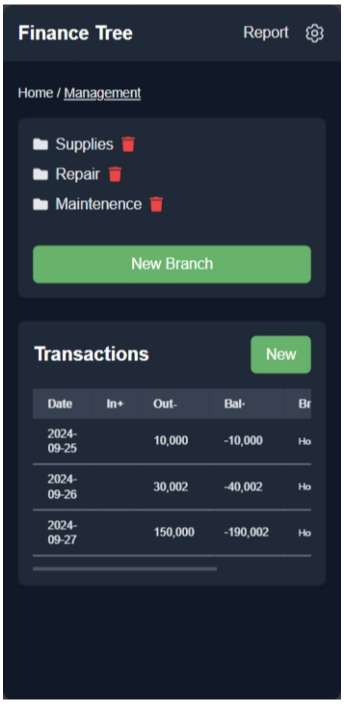
- Simplify the management of **complex organizational structures** or **personal financial tracking**.
- Easily handle **branch management** and **transaction recording** through an intuitive tree structure.

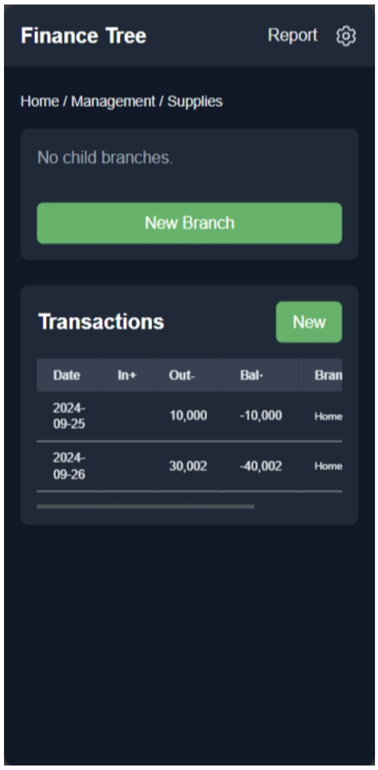
✨ Key Features

1. 🌿 Tree-structured Branch Management

- **Create/Delete Branches**: Users can add new branches or delete unnecessary branches within the tree structure.
- **Hierarchical Structure**: Manage branches with clear parent-child relationships for easy organization.







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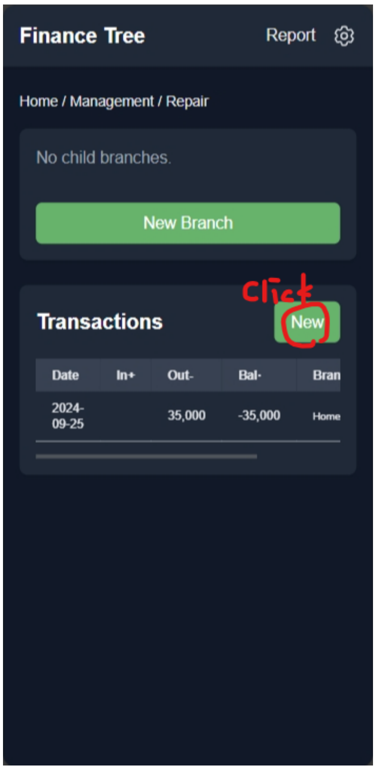
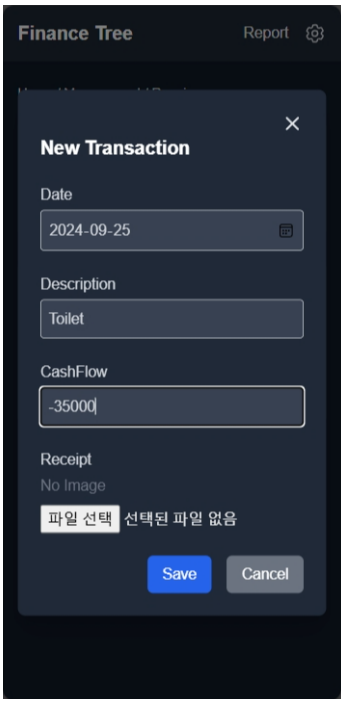
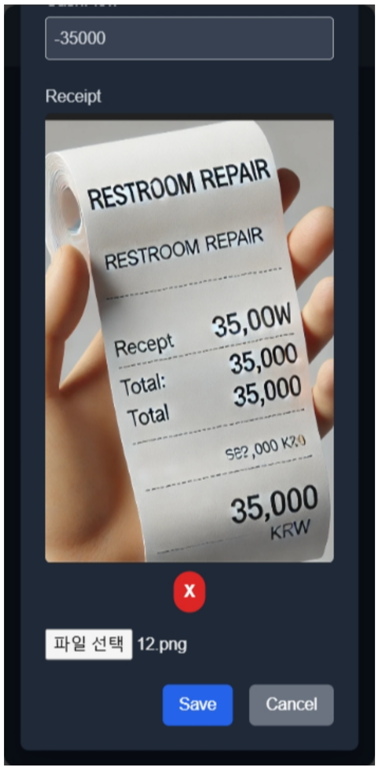
2. 💰 Transaction Recording and Viewing

- **Add Transactions**: Users can record transaction details for each branch, including descriptions and amounts (inflow/outflow).
- **Modify/Delete Transactions**: Easily update or remove existing transactions.
- **View Balance**: Check the total balance for each branch.

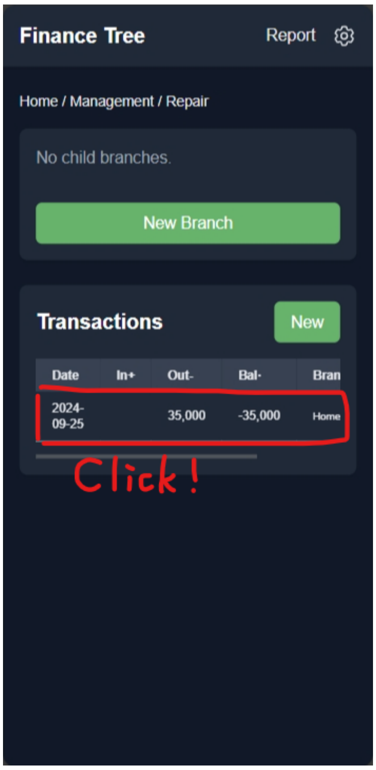


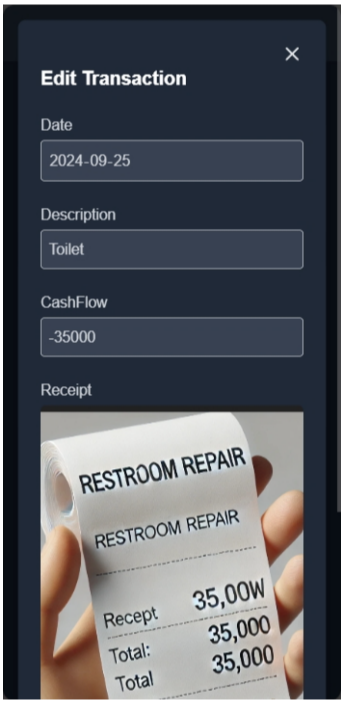


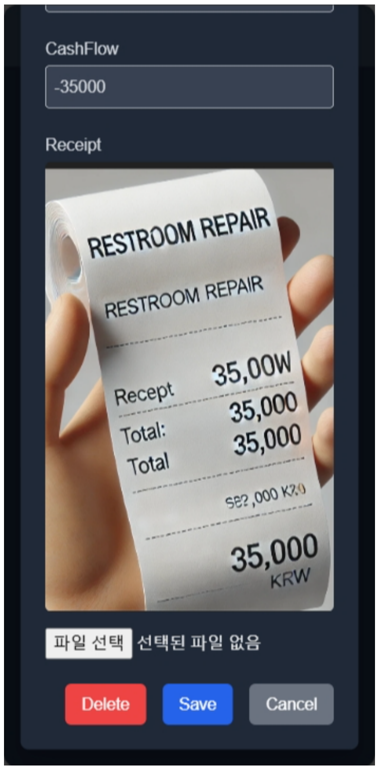


3. Receipt Image Management

- **Upload Receipts**: Users can upload receipt images linked to transactions, helping with proof of transaction.
- **View Receipts**: View uploaded receipts by clicking on the linked transaction.







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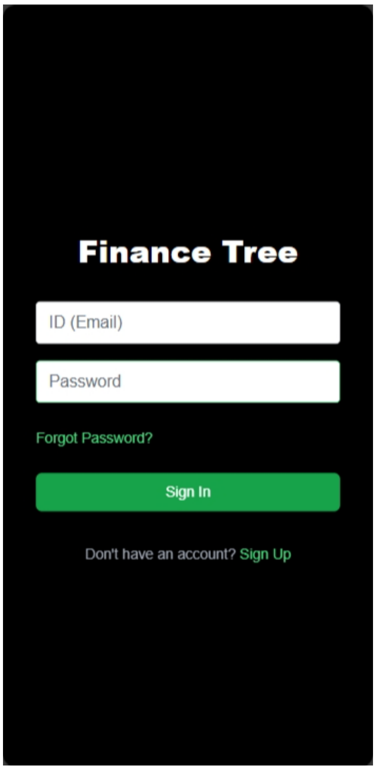
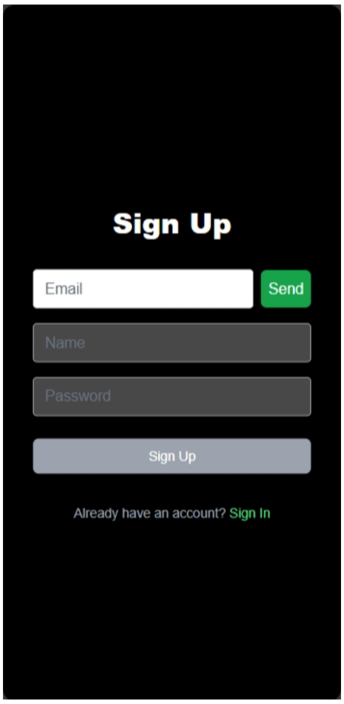
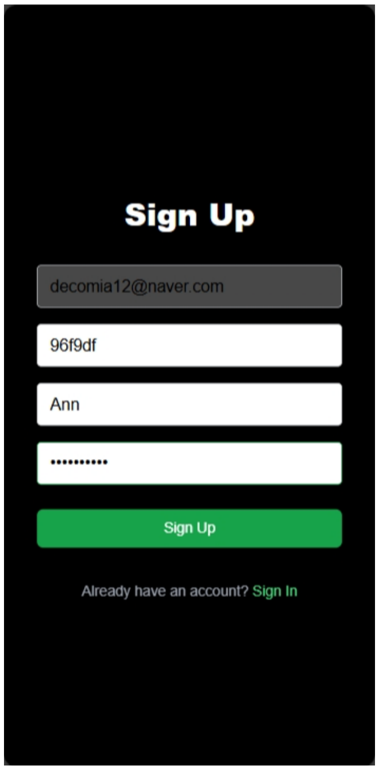
4. 🔐 User Authentication and Management

- **Sign Up/Login**: Users can create an account using an email and password, and log in securely.
- **Password Reset**: Users can reset their password via email if forgotten.







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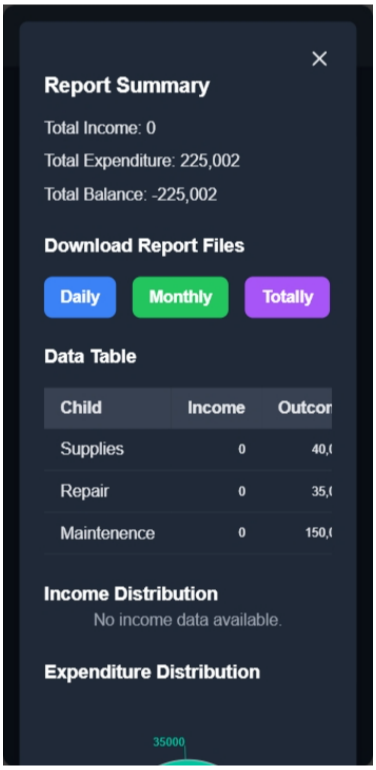
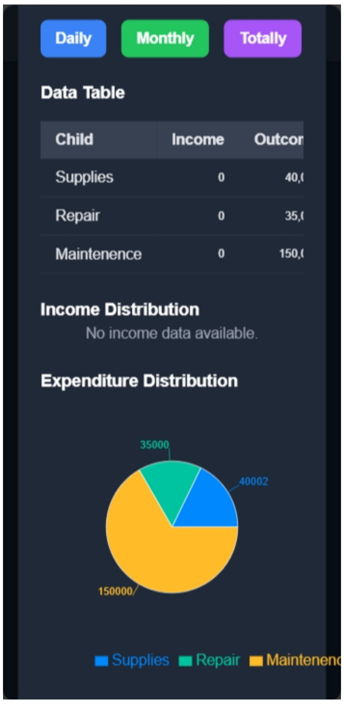
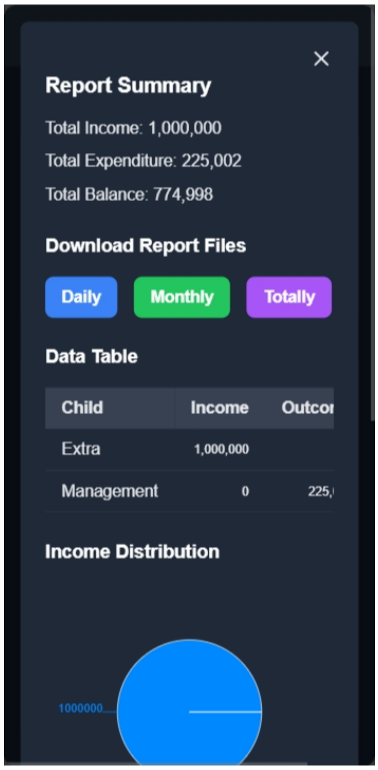
5. 📊 Report Generation

- **Generate Reports**: Users can generate financial reports based on transactions from specific branches or time periods.
- **Report Customization**: Customize the report by selecting branches or time ranges.
- **Download or View Reports**: Reports can be viewed directly or downloaded for external use (e.g., CSV or PDF).







🛠️ Tech Stack

- **Frontend**: Next.js (React-based)
- **Backend**: REST API (FastAPI or similar)
- **Database**: PostgreSQL (or other relational databases)
- **Authentication**: JWT token-based authentication
- **File Upload**: FormData is used to handle receipt image uploads

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🚀 Installation and Setup

1. Clone the repository and set it up

```
git clone <https://github.com/username/repository-name.git>
cd repository-name
```

2. Set environment variables

Create a `.env.local` file in the root directory and add the following environment variable:

```
NEXT_PUBLIC_BASIC_URL=https://your-backend-api-url.com
```

3. Install dependencies

```
npm install
```

4. Run the development server

```
npm run dev
```

The app will be running at http://localhost:3000.

5. Run the backend server

Make sure you have a backend server implemented using FastAPI, Express, or another framework to handle API requests.

🎮 How to Use

1. Sign Up

- Create an account using your email and password.

2. Login

- After logging in, you can manage branches and transactions.

3. Add Branch

- Add or delete branches within the tree structure.

4. Manage Transactions

- Add transactions to a branch and upload related receipts for tracking.

5. Reset Password

- Use the password reset feature to receive a reset link via email.

📂 Project Structure

```
/src
├── /app
│   ├── /components         # Common components
│   ├── /libs               # API call-related modules
│   ├── /pages              # Page components
├── /public                 # Static files (images, etc.)
├── /styles                 # Global styles
```

🤝 Contributing

1. Fork this repository.
2. Create a new branch (`git checkout -b feature-branch-name`).
3. Commit your changes (`git commit -m 'Add some feature'`).
4. Push to the branch (`git push origin feature-branch-name`).
5. Open a pull request.