# Samoa Finance App

A full-stack learner management system for remittance transactions with AML/KYC compliance tracking.

### **Tech Stack**

- Frontend: Next.js 15, React 19, TypeScript, Tailwind CSS
- Backend: Next.js API Routes
- Database: PostgreSQL (Supabase)
- Authentication: NextAuth.js
- ORM: Prisma

### **Prerequisites**

- Node.js 20+ and npm
- A Supabase account (free tier works)

# **Setup Instructions**

#### 1. Clone the Repository

```
git clone <repository-url>
cd samoa-finance-app
```

#### 2. Install Dependencies

npm install

### 3. Set Up Supabase Database

- 1. Go to <a href="https://supabase.com">https://supabase.com</a>) and create a new project
- 2. Wait for the database to provision (~2 minutes)
- 3. Go to Project Settings  $\rightarrow$  Database
- 4. Copy your Database Password (set during project creation)

#### 4. Configure Environment Variables

Copy the example environment file:

```
cp .env.example .env
```

### Update $\mbox{.env}$ with your Supabase credentials:

```
# Get connection strings from Supabase Dashboard - Settings - Database

DATABASE_URL="postgresql://postgres:[YOUR-PASSWORD]@db.[PROJECT-REF].supabase.co:5432/postgres?

pgbouncer=true&connection_limit=1"

DIRECT_URL="postgresql://postgres:[YOUR-PASSWORD]@db.[PROJECT-REF].supabase.co:5432/postgres"

NEXTAUTH_URL=http://localhost:3000

# Generate with: openssl rand -base64 32

NEXTAUTH SECRET=your-generated-secret-here
```

# To generate a secure NEXTAUTH\_SECRET:

```
openssl rand -base64 32
```

#### 5. Run Database Migration

```
npx prisma migrate dev
```

#### This will:

- Create all database tables
- Apply the schema to your Supabase database

#### 6. Seed the Database

```
npx prisma db seed
```

This creates default users:

- Admin: admin@samoafinance.local/Admin@123
- Staff: staff@samoafinance.local/Staff@123

#### 7. Start Development Server

```
npm run dev
```

Open http://localhost:3000 (http://localhost:3000) in your browser.

### **Available Scripts**

- npm run dev Start development server with Turbopack
- npm run build Build for production
- npm start Start production server
- npm run lint Run ESLint
- npx prisma studio Open Prisma Studio (database GUI)
- npx prisma migrate dev Create and apply new migration
- npx prisma db seed Seed database with test data

# **Project Structure**

```
samoa-finance-app/
  - prisma/
    ├── schema.prisma  # Database schema

├── seed.ts  # Database seeding script

├── migrations/  # Database migrations
  - src/
    - app/
                              # Next.js App Router pages & API routes
        app/ # API endpoints
| Lauth/ # NextAuth configuration
| Page components
      — lib/
                           # Utility functions
      - db.ts
                           # Prisma client singleton

    □ auth.ts  # NextAuth configuration
    □ ids.ts  # ID generators (CUST-YYYY-NNNNNN)

    □ validators.ts # Zod schemas

    # File uploads (git-ignored)
  - uploads/
                           # Environment variables (git-ignored)
  - .env
                           # Environment template
  - .env.example
 — package.json
```

#### **Features**

- Role-based authentication (Admin, Staff, AML, Agent)
- Customer management with E.164 phone validation
- Transaction tracking with sequential IDs
- Multi-currency support (WST, AUD, USD)
- ✓ AML/KYC compliance fields
- Document upload for customer IDs
- Daily/monthly reporting
- ■ CSV export functionality
- \( \begin{align\*} \begi

## **Database Schema**

Key models:

- User System users with role-based access
- Customer Customer profiles with KYC data
- CustomerIdFile Uploaded ID documents
- Transaction Remittance transactions with AML tracking
- ExchangeRate Daily exchange rates

ActivityLog - Audit trail

### **Default Users**

After seeding, you can log in with:

RoleEmailPasswordAdmin admin@samoafinance.localAdmin@123Staffstaff@samoafinance.localStaff@123

## **Production Deployment**

#### **Environment Variables**

For production, ensure you set:

- Strong NEXTAUTH\_SECRET (use openss1 rand -base64 32)
- Production NEXTAUTH URL (your deployed URL)
- · Secure Supabase connection strings

## **Deployment Options**

- Vercel (Recommended for Next.js)
- Railway
- AWS/Azure/GCP with Docker

### **Database Migration**

npx prisma migrate deploy

# **Security Notes**

- $\bullet$  Never commit .env file to git
- Rotate NEXTAUTH\_SECRET regularly in production
- Use Supabase Row Level Security (RLS) for additional security
- Store uploaded files in secure storage (S3/Supabase Storage)
- Enable database backups in Supabase

# **Support & Documentation**

- Next.js Documentation (https://nextjs.org/docs)
- Prisma Documentation (https://www.prisma.io/docs)
- Supabase Documentation (https://supabase.com/docs)
- NextAuth.js Documentation (https://next-auth.js.org)

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