Building any project



Super Excited to build End-To-End App with pretty much everything we learnt in last 16 weeks.

I already DM you the Notion Docs screenshots about Features of Projects. But Here I wanted to share something important...

There are many videos available about build XYZ.

Even you also have Code With Me type Videos.

These videos are good.

The problem starts when we try to build this kind of app by ourself.

Here are few challenges

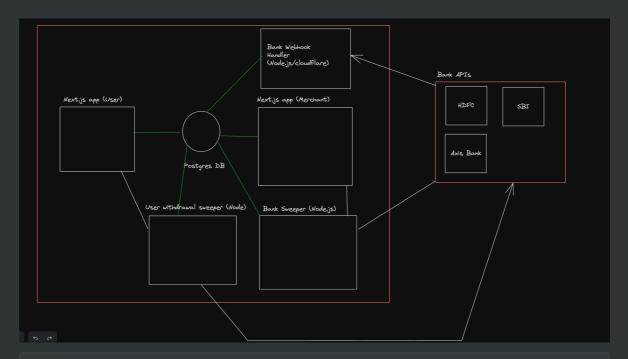
- 1. Where to Start...?
- 2. Design UI/UX
- 3. Low Level Design
- 4. High Level Design
- 5. ER Diagram
- 6. Tech Stack
- 7. How to think about new Features.
- 8. How much complexity is needed..?

Points

- 1. Where to start Feature planning
- 2. Design UI/UX
 - 1. UX First principles/Copy the biggest website out there
 - 2. UI Designer. Today there are tools but havent found any good one
- 3. High level Design
 - 1. Auth provider
 - 2. Database
 - 3. Backend Stack
 - 4. Frontend stack
 - 5. Modules you'll have (common/ui/backend)
 - 6. Cloud to deploy to
- 4. LLD
 - 1. Schema
 - 2. Route signatures
 - 3. Frontend Components debatable

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- 5. ER Diagrams -
 - 1. We can build these today, but usually not needed unless you're a very visual person
- 6. How to think about features
 - 1. Usually come from product
 - 2. If you're a founder, then just whatever u think is right
- 7. How much complexity is needed
 - 1. Depends on the size of the company. For a startup, whatever helps you move fast w/o tech debt. For a company there are a lot of layers of review to go through



.

If you want a voice speaker that says Paytm Received 100 rs from someone we need to add another ws service in here

We'll also be doing DB polling in the middle which should rather be done via a queue

Feature planning

User login

- 1. Auth (In this case, probably email/phone)
- 2. On ramp from bank, off ramp to bank
- 3. Support transfers via phone number/name

4. Support scanning a QR code for transferring to merchants

Merchant login

- 1. Login with google
- 2. Generate a QR Code for acceptance
- 3. Merchants get an alert/notification on payment
- 4. Merchant gets money offramped to bank every 2 days

UI/UX (End User)

Login

Landing page

User Home page

User Transfer page

UI/UX (Merchant)

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Architecture

Hot paths

1. Send money to someone

- 2. Withdraw balance of merchant
- 3. Withdraw balance of user back to bank
- 4. Webhooks from banks to transfer in money

This is ~1 month job for a 2 engineer team.

We can cut scope in either

- 1. UI
- 2. Number of features we support (remove merchant altogether)
- 3. Number of services we need (merge bank server, do withdrawals directly and not in a queue assuming banks are always up)

Stack

- 1. Frontend and Backend Next.js (or Backend)
- 2. Express Auxilary backends
- 3. Turborepo
- 4. Postgres Database
- 5. Prisma ORM

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6. Tailwind

Bootstrap the app

• Init turborepo

npx create-turbo@latest Copy

• Rename the two Next apps to

1. user-app

2. merchant-app

• Add tailwind to it.

```
cd apps/user-app
npm install -D tailwindcss postcss autoprefixer
npx tailwindcss init -p

cd ../merchant-app
npm install -D tailwindcss postcss autoprefixer
npx tailwindcss init -p
```

•

You can also use https://github.com/vercel/turbo/tree/main/examples/with-tailwind

Update tailwind.config.js

```
/** @type {import('tailwindcss').Config} */
module.exports = {
   content: [
        "./app/**/*.{js,ts,jsx,tsx,mdx}",
        "./pages/**/*.{js,ts,jsx,tsx,mdx}",
        "./components/**/*.{js,ts,jsx,tsx,mdx}",
        "../../packages/ui/**/*.{js,ts,jsx,tsx,mdx}"
    ],
    theme: {
      extend: {},
    },
    plugins: [],
}
```

Update global.css

```
@tailwind base;
@tailwind components;
@tailwind utilities;
```

•

Ensure tailwind is working as expected

Adding prisma

Ref - https://turbo.build/repo/docs/handbook/tools/prisma

- 1. Create a new db folder
- 2. Initialise package.json

```
npm init -y
npx tsc --init
```

1. Update package.json

```
"name": "@repo/db",
    "version": "0.0.0",
    "dependencies": {
        "@prisma/client": "^5.11.0"
    },
    "devDependencies": {
            "prisma": "5.11.0"
    },
    "exports": {
            "./client": "./index.ts"
    }
}
```

1. Update tsconfig.json

```
"extends": "@repo/typescript-config/react-library.json",
   "compilerOptions": {
      "outDir": "dist"
    },
    "include": ["src"],
    "exclude": ["node_modules", "dist"]
}
```

1. Init prisma

```
npx prisma init
```

- 1. Start DB locally/on neon.db/on aiven
- 2. Update .env with the new database URL
- 3. Add a basic schema

```
model User {

id Int @id @default(autoincrement())

email String @unique
```

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```
name String?
1. Mlgrate DB
                                                     Сору
  npx prisma migrate
1. Update index.ts
  export * from '@prisma/client';
                                                     Сору
1. Try adding api/user/route.ts
                                                      Сору
  import { NextResponse } from "next/server"
  import { PrismaClient } from "@repo/db/client";
  const client = new PrismaClient();
  export const GET = async () => {
      await client.user.create({
          data: {
              email: "asd",
              name: "adsads"
      })
      return NextResponse.json({
          message: "hi there"
      })
```

Add a recoil/store module

• Create store package

cd packages
mkdir store
npm init -y
npx tsc --init

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• Install dependencies

```
npm i recoil
```

• Update tsconfig.json

```
{
    "extends": "@repo/typescript-config/react-library.json",
    "compilerOptions": {
        "outDir": "dist"
    },
    "include": ["src"],
    "exclude": ["node_modules", "dist"]
}
```

• Update package.json

```
{
    "name": "@repo/store",
    "version": "1.0.0",
    "description": "",
    "main": "index.js",
    "scripts": {
        "test": "echo \"Error: no test specified\" && exit 1"
    },
    "keywords": [],
    "author": "",
    "license": "ISC",
    "dependencies": {
        "recoil": "^0.7.7"
    }
}
```

• Create a simple atom called balance in src/atoms/balance.ts

```
import { atom } from "recoil";

export const balanceAtom = atom<number>({
    key: "balance",
    default: 0,
})
```

• Create a simple hook called src/hooks/useBalance.ts

```
import { useRecoilValue } from "recoil"
import { balanceAtom } from "../atoms/balance"

export const useBalance = () => {
   const value = useRecoilValue(balanceAtom);
```

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```
return value;
}

• Add export to package.json

"exports": {
    "./useBalance": "./src/hooks/useBalance"
}
```

Import recoil in the next.js apps

• Install recoil in them

```
npm i recoil Copy
```

• Add a providers.tsx file

• Update layout.tsx

• Create a simple client component and try using the useBalance hook in there

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```
"use client";

import { useBalance } from "@repo/store/useBalance";

export default function() {
   const balance = useBalance();
   return <div>
     hi there {balance}
   </div>
}
```

If you see this, we'll try to debug it end of class. Should still work in dev mode

Add next-auth

Database

Update the database schema

```
generator client {
  provider = "prisma-client-js"
datasource db {
  provider = "postgresql"
          = env("DATABASE_URL")
model User {
                       @id @default(autoincrement())
  id
              Int
              String? @unique
  email
              String?
 name
  number
              String @unique
              String
  password
model Merchant {
  id
              Int
                      @id @default(autoincrement())
  email
              String @unique
             String?
  name
  auth_type
             AuthType
```

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```
enum AuthType {
   Google
   Github
}
```

User-app

- Go to apps/user-app
- Initialize next-auth

```
npm install next-auth Copy
```

Initialize a simple next auth config in lib/auth.ts

```
import db from "@repo/db/client";
                                                                                       Cop
import CredentialsProvider from "next-auth/providers/credentials"
import bcrypt from "bcrypt";
export const authOptions = {
   providers: [
     CredentialsProvider({
         name: 'Credentials',
          credentials: {
            phone: { label: "Phone number", type: "text", placeholder: "1231231231"
            password: { label: "Password", type: "password" }
          // TODO: User credentials type from next-aut
          async authorize(credentials: any) {
            // Do zod validation, OTP validation here
           const hashedPassword = await bcrypt.hash(credentials.password, 10);
            const existingUser = await db.user.findFirst({
               where: {
                    number: credentials.phone
            });
            if (existingUser) {
                const passwordValidation = await bcrypt.compare(credentials.password
                if (passwordValidation) {
                    return {
                        id: existingUser.id.toString(),
                        name: existingUser.name,
                        email: existingUser.number
                return null;
            try {
                const user = await db.user.create({
                    data: {
```

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```
number: credentials.phone,
                    password: hashedPassword
            });
            return {
                id: user.id.toString(),
                name: user.name,
                email: user.number
        } catch(e) {
            console.error(e);
       return null
    })
],
secret: process.env.JWT_SECRET || "secret",
callbacks: {
    // TODO: can u fix the type here? Using any is bad
    async session({ token, session }: any) {
        session.user.id = token.sub
       return session
```

• Create a /api/auth/[...nextauth]/route.ts

```
import NextAuth from "next-auth"

const handler = NextAuth(authOptions)

export { handler as GET, handler as POST }
```

• Update .env

• Ensure u see a signin page at http://localhost:3000/api/auth/signin

Merchant-app

Create lib/auth.ts

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```
import GoogleProvider from "next-auth/providers/google";

export const authOptions = {
    providers: [
        GoogleProvider({
            clientId: process.env.GOOGLE_CLIENT_ID || "",
            clientSecret: process.env.GOOGLE_CLIENT_SECRET || ""
        })
    ],
}
```

• Create a /api/auth/[...nextauth]/route.ts

```
import NextAuth from "next-auth"

const handler = NextAuth(authOptions)

export { handler as GET, handler as POST }
```

Put your google client and secret in __env_ of the merchant app.
 Ref https://next-auth.js.org/providers/google

```
GOOGLE_CLIENT_ID=
GOOGLE_CLIENT_SECRET=
NEXTAUTH_URL=http://localhost:3000
NEXTAUTH_SECRET=kiratsecr3t
```

- Ensure u see a signin page at http://localhost:3001/api/auth/signin
- Try signing in and make sure it reaches the DB

Add auth

Client side

- Wrap the apps around SessionProvider context from the next-auth package
- Go to merchant-app/providers.tsx

```
"use client"
import { RecoilRoot } from "recoil";
import { SessionProvider } from "next-auth/react";
```

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• Do the same for user-app/providers.tsx

Server side

Create apps/user-app/app/api/user.route.ts

```
import { getServerSession } from "next-auth"
import { NextResponse } from "next/server";
import { authOptions } from "../../lib/auth";

export const GET = async () => {
    const session = await getServerSession(authOptions);
    if (session.user) {
        return NextResponse.json({
            user: session.user
        })
    }
    return NextResponse.json({
            message: "You are not logged in"
    }, {
            status: 403
    })
}
```

Ensure login works as exptected

Add an Appbar component

• Update the Button component in UI

```
"use client";
```

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• Create a ui/Appbar component that is highly generic (doesnt know anything about the user/how to logout).

```
import { Button } from "./button";
interface AppbarProps {
    user?: {
        name?: string | null;
    // TODO: can u figure out what the type should be here?
    onSignin: any,
    onSignout: any
export const Appbar = ({
   user,
    onSignin,
    onSignout
}: AppbarProps) => {
    return <div className="flex justify-between border-b px-4">
        <div className="text-lg flex flex-col justify-center">
            PayTM
        </div>
        <div className="flex flex-col justify-center pt-2">
            <Button onClick={user ? onSignout : onSignin}>{user ? "Logout" : "Login"
        </div>
    </div>
```

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Checkpoint

We are here - $\underline{\text{https://github.com/100xdevs-cohort-2/paytm-project-starter-monorepo}}$

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On Ramping

Creating a dummy bank server

• Allows PayTM to generate a token for a payment for a user for some amount

```
POST /api/transaction
{
    "user_identifier": "1",
    "amount": "59900", // Rs 599
    "webhookUrl": "http://localhost:3003/hdfcWebhook"
}
```

• PayTM should redirect the user to

```
https://bank-api-frontend.com/pay?token={token_from_step_1}
Copy
```

• If user made a successful payment, Bank should hit the webbookUrl for the company

Creating a bank_webhook_handler Node.js project

• Init node.js project + esbuild

```
cd apps
mkdir bank_webhook_handler
cd bank_webhook_handler
npm init -y
npx tsc --init
npm i esbuild express @types/express
```

Update tsconfig

```
{
    "extends": "@repo/typescript-config/base.json",
    "compilerOptions": {
        "outDir": "dist"
    },
        "include": ["src"],
        "exclude": ["node_modules", "dist"]
}
```

• Create src/index.ts

```
import express from "express";
Copy
```

```
const app = express();

app.post("/hdfcWebhook", (req, res) => {
    //TODO: Add zod validation here?
    const paymentInformation = {
        token: req.body.token,
        userId: req.body.user_identifier,
        amount: req.body.amount
    };
    // Update balance in db, add txn
})
```

• Update DB Schema

```
Сору
generator client {
  provider = "prisma-client-js"
datasource db {
  provider = "postgresql"
         = env("DATABASE_URL")
  url
model User {
                                        @id @default(autoincrement())
  id
                    Int
  email
                    String?
                                        @unique
                    String?
  name
                    String
  number
                                        @unique
  password
                    String
 OnRampTransaction OnRampTransaction[]
  Balance
                    Balance[]
model Merchant {
  id
            Int
                     @id @default(autoincrement())
                     @unique
  email
            String
            String?
  name
  auth_type AuthType
model OnRampTransaction {
  id
            Int
                         @id @default(autoincrement())
  status
            OnRampStatus
 token
            String
                         @unique
  provider String
  amount
            Int
  startTime DateTime
  userId
            Int
                         @relation(fields: [userId], references: [id])
  user
            User
model Balance {
  id
         Int @id @default(autoincrement())
```

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```
userId Int @unique
amount Int
locked Int
user User @relation(fields: [userId], references: [id])
}
enum AuthType {
   Google
   Github
}
enum OnRampStatus {
   Success
   Failure
   Processing
}
```

Migrate the DB

```
Go to the right folder (packages/db)

npx prisma migrate dev --name add_balance
```

• Add repo/db as a dependency to packate.json

```
"@repo/db": "*" Copy
```

Add transaction to update the balance and transactions DB
 Ref - https://www.prisma.io/docs/orm/prisma-client/queries/transactions

```
Сор
import express from "express";
import db from "@repo/db/client";
const app = express();
app.use(express.json())
app.post("/hdfcWebhook", async (req, res) => {
    //TODO: Add zod validation here?
    //TODO: HDFC bank should ideally send us a secret so we know this is sent by them
    const paymentInformation: {
        token: string;
        userId: string;
        amount: string
       token: req.body.token,
        userId: req.body.user_identifier,
        amount: req.body.amount
    };
    try {
        await db.$transaction([
            db.balance.updateMany({
```

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```
where: {
                    userId: Number(paymentInformation.userId)
                data: {
                    amount: {
                        // You can also get this from your DB
                        increment: Number(paymentInformation.amount)
            }),
            db.onRampTransaction.updateMany({
                where: {
                    token: paymentInformation.token
                data: {
                    status: "Success",
            })
        ]);
        res.json({
            message: "Captured"
        })
   } catch(e) {
        console.error(e);
        res.status(411).json({
            message: "Error while processing webhook"
        })
})
app.listen(3003);
```

Create generic appbar

• Create a new AppbarClient component in apps/user-app/AppbarClient.tsx

```
"use client"
import { signIn, signOut, useSession } from "next-auth/react";
import { Appbar } from "@repo/ui/appbar";
import { useRouter } from "next/navigation";
```

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Add AppbarClient to layout.tsx

```
Сору
import "./globals.css";
import type { Metadata } from "next";
import { Inter } from "next/font/google";
import { Providers } from "../provider";
import { AppbarClient } from "../components/AppbarClient";
const inter = Inter({ subsets: ["latin"] });
export const metadata: Metadata = {
 title: "Wallet",
  description: "Simple wallet app",
};
export default function RootLayout({
 children,
}: {
  children: React.ReactNode;
}): JSX.Element {
  return (
   <html lang="en">
      <Providers>
        <AppbarClient />
        <body className={inter.className}>{children}</body>
      </Providers>
    </html>
```

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Create sidebar

- Create user-app/(dashboard) folder
- Add 3 pages inside it
 - dashboard/page.tsx
 - transactions/page.tsx
 - transfer/page.tsx

```
copy
export default function() {
   return <div>
        Dashboard Page (or transfer/txn page)
        </div>
}
```

• Create user-app/(dashboard)/layout.tsx



Icons come from https://heroicons.com/ SidebarItem will be created in the next step

```
import { SidebarItem } from "../../components/SidebarItem";
                                                                                        Cop
export default function Layout({
  children,
}: {
  children: React.ReactNode;
}): JSX.Element {
  return (
    <div className="flex">
        <div className="w-72 border-r border-slate-300 min-h-screen mr-4 pt-28">
            <div>
                <SidebarItem href={"/dashboard"} icon={<HomeIcon />} title="Home" />
                <SidebarItem href={"/transfer"} icon={<TransferIcon />} title="Trans-
                <SidebarItem href={"/transactions"} icon={<TransactionsIcon />} title
            </div>
        </div>
            {children}
    </div>
  );
// Icons Fetched from https://heroicons.com/
function HomeIcon() {
    return <svg xmlns="http://www.w3.org/2000/svg" fill="none" viewBox="0 0 24 24" s
    <path stroke-linecap="round" stroke-linejoin="round" d="m2.25 12 8.954-8.955c.44</pre>
  </svg>
function TransferIcon() {
```

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• Create SidebarItem component

```
"use client"
import { usePathname, useRouter } from "next/navigation";
import React from "react";
export const SidebarItem = ({ href, title, icon }: { href: string; title: string; icon
   const router = useRouter();
   const pathname = usePathname()
   const selected = pathname === href
   return <div className={`flex ${selected ? "text-[#6a51a6]" : "text-slate-500"} c</pre>
        router.push(href);
   }}>
        <div className="pr-2">
            {icon}
        </div>
        <div className={`font-bold ${selected ? "text-[#6a51a6]" : "text-slate-500"}</pre>
            {title}
        </div>
   </div>
```

You should have 3 pages that look like this

Create transfer page

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• Add a better card component to packages/ui

```
import React from "react";
export function Card({
 title,
 children,
}: {
 title: string;
 children?: React.ReactNode;
}): JSX.Element {
 return (
   <div
     className="border p-4"
      <h1 className="text-xl border-b pb-2">
       {title}
     </h1>
     {children}
   </div>
```

• Add a Center component that centralizes (both vertically and horizontally) the children given to it (in packages/ui)

```
Make sure to export it in package.json
```

• Add a Select component to packages/ui (Make sure to export it)

```
"use client"
export const Select = ({ options, onSelect }: {
    onSelect: (value: string) => void;
    options: {
        key: string;
        value: string;
    }[];
}) => {
    return <select onChange={(e) => {
        onSelect(e.target.value)
```

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Add TextInput component to packages/ui

```
"use client"

export const TextInput = ({
    placeholder,
    onChange,
    label
}: {
    placeholder: string;
    onChange: (value: string) => void;
    label: string;
}) => {
    return <div className="pt-2">
        <label className="pt-2">
        <label className="block mb-2 text-sm font-medium text-gray-900">{label}</label <input onChange={(e) => onChange(e.target.value)} type="text" id="first_name </div>}
```

Create user-app/components/AddMoneyCard.tsx

```
"use client"
import { Button } from "@repo/ui/button";
import { Card } from "@repo/ui/card";
import { Center } from "@repo/ui/center";
import { Select } from "@repo/ui/select";
import { useState } from "react";
import { TextInput } from "@repo/ui/textinput";
const SUPPORTED BANKS = [{
    name: "HDFC Bank",
    redirectUrl: "https://netbanking.hdfcbank.com"
}, {
    name: "Axis Bank",
    redirectUrl: "https://www.axisbank.com/"
}];
export const AddMoney = () => {
    const [redirectUrl, setRedirectUrl] = useState(SUPPORTED_BANKS[0]?.redirectUrl);
    return <Card title="Add Money">
    <div className="w-full">
        <TextInput label={"Amount"} placeholder={"Amount"} onChange={() => {
        }} />
        <div className="py-4 text-left">
```

```
</div>
        <Select onSelect={(value) => {
            setRedirectUrl(SUPPORTED_BANKS.find(x => x.name === value)?.redirectUrl
        }} options={SUPPORTED_BANKS.map(x => ({
            key: x.name,
            value: x.name
        }))} />
        <div className="flex justify-center pt-4">
            <Button onClick={() => {
                window.location.href = redirectUrl || "";
            }}>
            Add Money
            </Button>
        </div>
    </div>
</Card>
```

• Create user-app/components/BalanceCard.tsx

We're diving my 100 because we store in paise denomination in the db

```
Copy
import { Card } from "@repo/ui/card";
export const BalanceCard = ({amount, locked}: {
    amount: number;
    locked: number;
}) => {
    return <Card title={"Balance"}>
        <div className="flex justify-between border-b border-slate-300 pb-2">
            <div>
                Unlocked balance
            </div>
            <div>
                {amount / 100} INR
            </div>
        </div>
        <div className="flex justify-between border-b border-slate-300 py-2">
                Total Locked Balance
            </div>
            <div>
                {locked / 100} INR
            </div>
        </div>
        <div className="flex justify-between border-b border-slate-300 py-2">
                Total Balance
            </div>
            <div>
                {(locked + amount) / 100} INR
            </div>
```

```
</div>
</Card>
}
```

• Create user-app/components/OnRampTransaction.tsx

```
Copy
import { Card } from "@repo/ui/card"
export const OnRampTransactions = ({
    transactions
    transactions: {
       time: Date,
        amount: number,
        // TODO: Can the type of `status` be more specific?
        status: string,
        provider: string
    }[]
}) => {
    if (!transactions.length) {
        return <Card title="Recent Transactions">
            <div className="text-center pb-8 pt-8">
                No Recent transactions
            </div>
        </Card>
    return <Card title="Recent Transactions">
        <div className="pt-2">
            {transactions.map(t => <div className="flex justify-between">
                <div>
                    <div className="text-sm">
                        Received INR
                    </div>
                    <div className="text-slate-600 text-xs">
                        {t.time.toDateString()}
                    </div>
                </div>
                <div className="flex flex-col justify-center">
                    + Rs {t.amount / 100}
                </div>
            </div>)}
        </div>
    </Card>
```

• Create user-app/app/(dashboard)/transfer/page.tsx

```
import prisma from "@repo/db/client";
import { AddMoney } from "../../.components/AddMoneyCard";
import { BalanceCard } from "../../.components/BalanceCard";
import { OnRampTransactions } from "../../.components/OnRampTransactions";
```

```
import { getServerSession } from "next-auth";
import { authOptions } from "../../lib/auth";
async function getBalance() {
    const session = await getServerSession(authOptions);
    const balance = await prisma.balance.findFirst({
        where: {
            userId: Number(session?.user?.id)
    });
    return {
        amount: balance?.amount || 0,
        locked: balance?.locked || 0
async function getOnRampTransactions() {
    const session = await getServerSession(authOptions);
    const txns = await prisma.onRampTransaction.findMany({
            userId: Number(session?.user?.id)
    });
    return txns.map(t => ({
        time: t.startTime,
        amount: t.amount,
        status: t.status,
        provider: t.provider
    }))
export default async function() {
    const balance = await getBalance();
    const transactions = await getOnRampTransactions();
    return <div className="w-screen">
        <div className="text-4xl text-[#6a51a6] pt-8 mb-8 font-bold">
            Transfer
        </div>
        <div className="grid grid-cols-1 gap-4 md:grid-cols-2 p-4">
                <AddMoney />
            </div>
            <div>
                <BalanceCard amount={balance.amount} locked={balance.locked} />
                <div className="pt-4">
                    <OnRampTransactions transactions={transactions} />
                </div>
            </div>
        </div>
    </div>
```

Add some seed data

- Go to packages/db
- Add prisma/seed.ts

```
Copy
import { PrismaClient } from '@prisma/client'
const prisma = new PrismaClient()
async function main() {
  const alice = await prisma.user.upsert({
    where: { number: '9999999999' },
    update: {},
    create: {
      number: '999999999',
      password: 'alice',
      name: 'alice',
      OnRampTransaction: {
       create: {
          startTime: new Date(),
          status: "Success",
          amount: 20000,
          token: "122",
          provider: "HDFC Bank",
       },
  })
  const bob = await prisma.user.upsert({
    where: { number: '999999998' },
    update: {},
    create: {
     number: '999999998',
      password: 'bob',
      name: 'bob',
      OnRampTransaction: {
        create: {
          startTime: new Date(),
          status: "Failure",
          amount: 2000,
          token: "123",
          provider: "HDFC Bank",
       },
  })
  console.log({ alice, bob })
main()
```

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```
.then(async () => {
      await prisma.$disconnect()
    .catch(async (e) => {
      console.error(e)
      await prisma.$disconnect()
      process.exit(1)
    })
• Update package.json
                                                       Сору
  "prisma": {
      "seed": "ts-node prisma/seed.ts"

    Run command to seed db

                                                       Сору
  npx prisma db seed

    Explore db

                                                       Сору
  npx prisma studio
```

Make landing page redirect

The user should go to either the signin page or the dashboard page based on if they are logged in

Update root page.tsx

```
import { getServerSession } from "next-auth";
import { redirect } from 'next/navigation'
import { authOptions } from "./lib/auth";

export default async function Page() {
  const session = await getServerSession(authOptions);
  if (session?.user) {
    redirect('/dashboard')
  } else {
    redirect('/api/auth/signin')
  }
```

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}

 $\textbf{Final codebase -} \underline{\text{https://github.com/100xdevs-cohort-2/week-17-final-code}}$