

# Recap Everything, Build PayTM Frontend

In this lecture, Harkirat guides us through an end-to-end tutorial on building a comprehensive full-stack application resembling Paytm While there are no specific notes provided for this section, a mini guide is outlined below to assist you in navigating through each step of the tutorial. Therefore, it is strongly advised to actively follow along during the lecture for a hands-on learning experience.

It's important to note that this session primarily focuses on the frontend section of the application. For the backend portion, be sure to check out the content covered in the previous 8.2 lecture.

Recap Everything, Build PayTM Frontend

Step 1 - Add routing to the react app

Solution

Step 2 - Create and hook up Signup page

Step 3 - Create the signin page

Step 4 - Dashboard page

Step 5 - Auth Components

Heading component

Code

2. Sub Heading component

Code

3. InputBox component

Code

4. Button Component

Code

5. BottomWarning

Code

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Step 6 - Signin-ed Comonents
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# Step 1 - Add routing to the react app

```
Import react-router-dom into your project and add the following routes -

1. /signup - The signup page
2. /signin - The signin page
3. /dashboard - Balances and see other users on the platform.
4. /send - Send money to other users
```

#### **▼** Solution

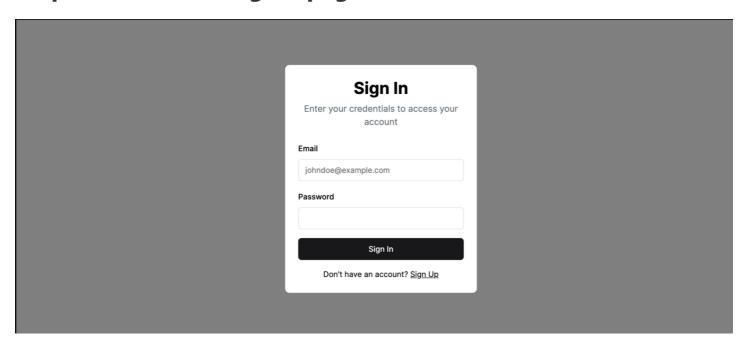
# **Step 2 - Create and hook up Signup page**

Sign Up  Enter your information to create an account  First Name  John  Last Name  Doe  Email  johndoe@example.com  Password  Sign Up  Already have an account? Login
First Name  John  Last Name  Doe  Email  johndoe@example.com  Password  Sign Up
John  Last Name  Doe  Email  johndoe@example.com  Password
Email  johndoe@example.com  Password  Sign Up
Email  johndoe@example.com  Password  Sign Up
johndoe@example.com  Password  Sign Up
Password Sign Up
Sign Up
Already have an account? <u>Login</u>

If the user signup is successful, take the user to /dashboard

If not, show them an error message

# **Step 3 - Create the signin page**



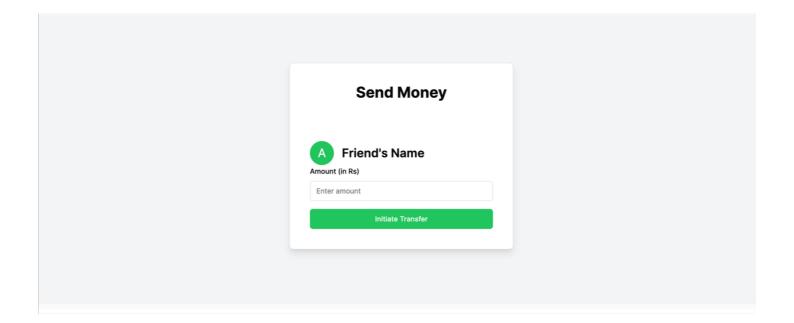
If the signin in successful, take the user to \( \text{\dashboard} \)

# **Step 4 - Dashboard page**

Payments App	Hello, User U
Your Balance \$5000 Users	
Search users U1 User 1	Send Money
U2 User 2	Send Money
U3 User 3	Send Money

Show the user their balance, and a list of users that exist in the database

Clicking on **Send money** should open a modal that lets the user send money

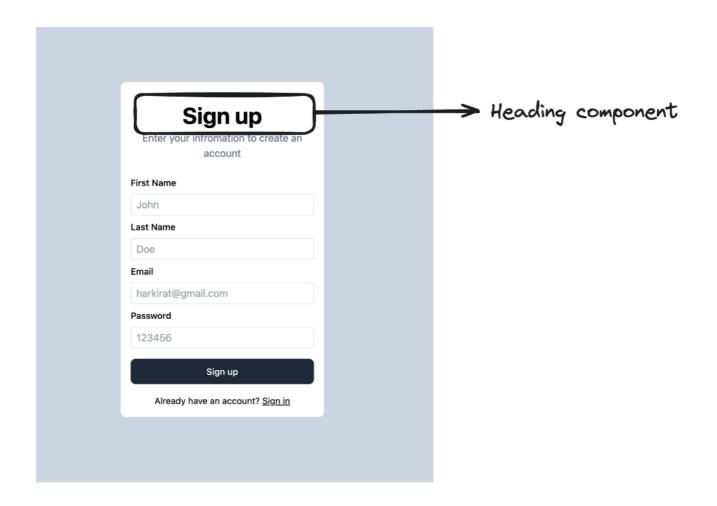


# **Step 5 - Auth Components**

Full Signup component

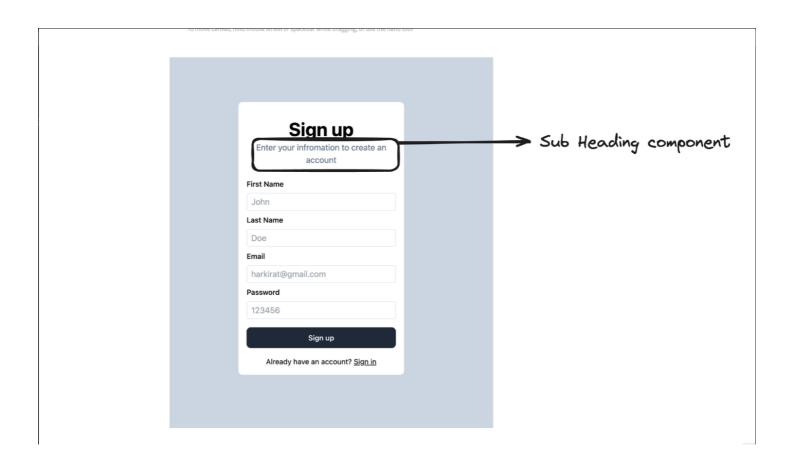
You can break down the app into a bunch of components. The code only contains the styles of the component, not any onclick functionality.

# 1. Heading component



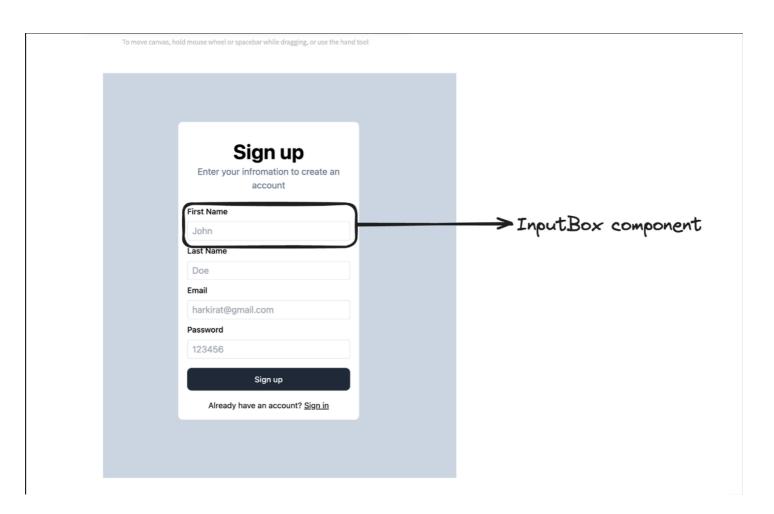
```
export function Heading({label}) {
   return <div className="font-bold text-4xl pt-6">
        {label}
      </div>
}
```

## 2. Sub Heading component

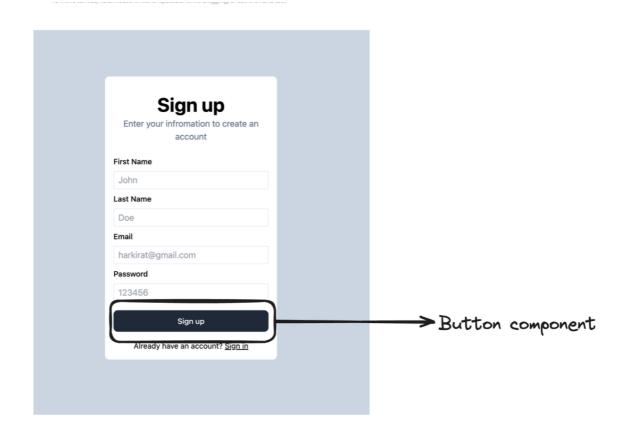


```
export function SubHeading({label}) {
  return <div className="text-slate-500 text-md pt-1 px-4 pb-4">
     {label}
  </div>
}
```

# 3. InputBox component



### 4. Button Component



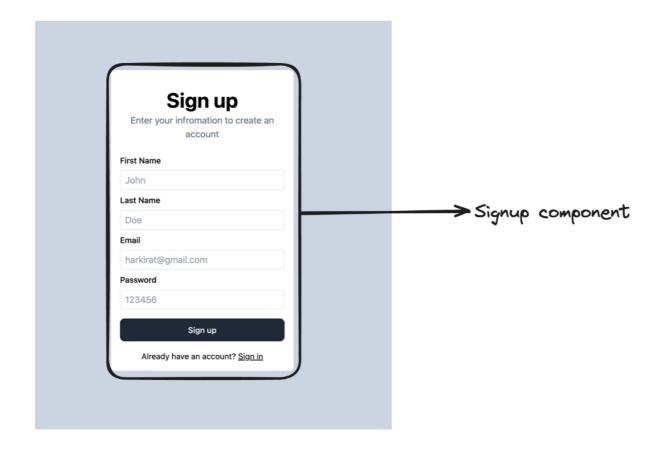
```
export function Button({label, onClick}) {
    return <button onClick={onClick} type="button" class=" w-full text-white bg-gray-800 hover:bg-gray-90
0 focus:outline-none focus:ring-4 focus:ring-gray-300 font-medium rounded-lg text-sm px-5 py-2.5 me-2 mb-
2">{label}</button>
}
```

This section was blindly copied from <a href="https://flowbite.com/docs/components/buttons/">https://flowbite.com/docs/components/buttons/</a>

## 5. BottomWarning



## **Full Signup component**



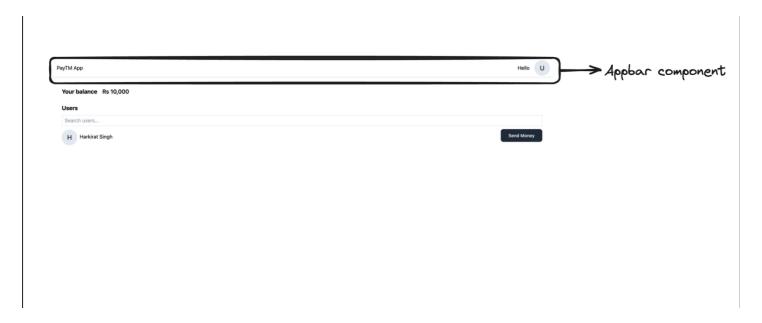
```
import { BottomWarning } from "../components/BottomWarning"
import { Button } from "../components/Button"
import { Heading } from "../components/Heading"
import { InputBox } from "../components/InputBox"
import { SubHeading } from "../components/SubHeading"
export const Signup = () => {
    return <div className="bg-slate-300 h-screen flex justify-center">
    <div className="flex flex-col justify-center">
      <div className="rounded-lg bg-white w-80 text-center p-2 h-max px-4">
        <Heading label={"Sign up"} />
        <SubHeading label={"Enter your infromation to create an account"} />
        <InputBox placeholder="John" label={"First Name"} />
        <InputBox placeholder="Doe" label={"Last Name"} />
        <InputBox placeholder="harkirat@gmail.com" label={"Email"} />
        <InputBox placeholder="123456" label={"Password"} />
        <div className="pt-4">
          <Button label={"Sign up"} />
        <BottomWarning label={"Already have an account?"} buttonText={"Sign in"} to={"/signin"} />
      </div>
    </div>
  </div>
}
```

# Full Signin component ▼ Code

```
import { BottomWarning } from "../components/BottomWarning"
import { Button } from "../components/Button"
import { Heading } from "../components/Heading"
import { InputBox } from "../components/InputBox"
import { SubHeading } from "../components/SubHeading"
export const Signin = () => {
    return <div className="bg-slate-300 h-screen flex justify-center">
    <div className="flex flex-col justify-center">
      <div className="rounded-lg bg-white w-80 text-center p-2 h-max px-4">
        <Heading label={"Sign in"} />
        \mbox{\sc SubHeading label={"Enter your credentials to access your account"} /> }
        <InputBox placeholder="harkirat@gmail.com" label={"Email"} />
        <InputBox placeholder="123456" label={"Password"} />
        <div className="pt-4">
          <Button label={"Sign in"} />
        </div>
        <BottomWarning label={"Don't have an account?"} buttonText={"Sign up"} to={"/signup"} />
    </div>
  </div>
}
```

# **Step 6 - Signin-ed Comonents**

#### 1. Appbar



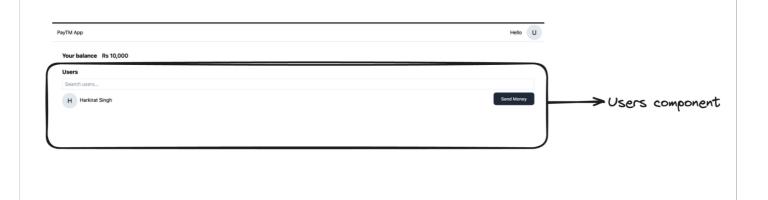
#### **▼** Code

#### 2. Balance



#### **▼** Code

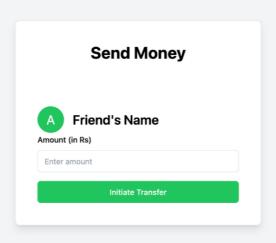
## 3. Users component



```
import { useState } from "react"
import { Button } from "./Button"
export const Users = () => {
    // Replace with backend call
    const [users, setUsers] = useState([{
        firstName: "Harkirat",
        lastName: "Singh",
        _id: 1
    }]);
    return <>
        <div className="font-bold mt-6 text-lg">
            Users
        </div>
        <div className="my-2">
            <input type="text" placeholder="Search users..." className="w-full px-2 py-1 border rounded b</pre>
order-slate-200"></input>
        </div>
        <div>
            {users.map(user => <User user={user} />)}
        </div>
    </>
}
function User({user}) {
    return <div className="flex justify-between">
        <div className="flex">
            <div className="rounded-full h-12 w-12 bg-slate-200 flex justify-center mt-1 mr-2">
                <div className="flex flex-col justify-center h-full text-xl">
                    {user.firstName[0]}
                </div>
            </div>
            <div className="flex flex-col justify-center h-ful">
                    {user.firstName} {user.lastName}
                </div>
            </div>
        </div>
        <div className="flex flex-col justify-center h-ful">
            <Button label={"Send Money"} />
```

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

#### 4. SendMoney Component



#### **▼** Code

```
export const SendMoney = () => {
    return <div class="flex justify-center h-screen bg-gray-100">
        <div className="h-full flex flex-col justify-center">
            <div
                class="border h-min text-card-foreground max-w-md p-4 space-y-8 w-96 bg-white shadow-lg r
ounded-lg"
                <div class="flex flex-col space-y-1.5 p-6">
                <h2 class="text-3xl font-bold text-center">Send Money</h2>
                </div>
                <div class="p-6">
                <div class="flex items-center space-x-4">
                    <div class="w-12 h-12 rounded-full bg-green-500 flex items-center justify-center">
                    <span class="text-2xl text-white">A</span>
                    </div>
                    <h3 class="text-2xl font-semibold">Friend's Name</h3>
                </div>
                <div class="space-y-4">
                    <div class="space-y-2">
                    <label
                        class="text-sm font-medium leading-none peer-disabled:cursor-not-allowed peer-dis
abled:opacity-70"
                        for="amount"
```

```
Amount (in Rs)
                     <input</pre>
                         type="number"
                         class="flex h-10 w-full rounded-md border border-input bg-background px-3 py-2 te
xt-sm"
                         id="amount"
                         placeholder="Enter amount"
                     />
                     </div>
                     <button class="justify-center rounded-md text-sm font-medium ring-offset-background t</pre>
ransition-colors h-10 px-4 py-2 w-full bg-green-500 text-white">
                         Initiate Transfer
                     </button>
                 </div>
                 </div>
        </div>
      </div>
    </div>
}
```

# **Step 7 - Wiring up the backend calls**

You can use

- 1. fetch or
- 2. axios

to wire up calls to the backend server.

The final code looks something like this -

https://github.com/100xdevs-cohort-2/paytm/tree/complete-solution (complete-solution branch on the repo)

The important bits here are -

- 1. Signup call https://github.com/100xdevs-cohort-2/paytm/blob/complete-solution/frontend/src/pages/Signup.jsx#L36
- 2. Call to get all the users given the filter <a href="https://github.com/100xdevs-cohort-2/paytm/blob/complete-solution/frontend/src/components/Users.jsx#L13">https://github.com/100xdevs-cohort-2/paytm/blob/complete-solution/frontend/src/components/Users.jsx#L13</a>
- 3. Call to transfer money b/w accounts <a href="https://github.com/100xdevs-cohort-2/paytm/blob/complete-solution/frontend/src/pages/SendMoney.jsx#L45">https://github.com/100xdevs-cohort-2/paytm/blob/complete-solution/frontend/src/pages/SendMoney.jsx#L45</a>