

Week 8.4

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

1. Heading component

Code

2. Sub Heading component

Code

3. InputBox component

Code

4. Button Component

Code

5. BottomWarning

Code

Full Signup component

Code

Full Signin component

Code

Step 6 - Signin-ed Comonents

1. Appbar

Code

2. Balance

Code

3. Users component

Code

4. SendMoney Component

Code

Step 7 - Wiring up the backend calls

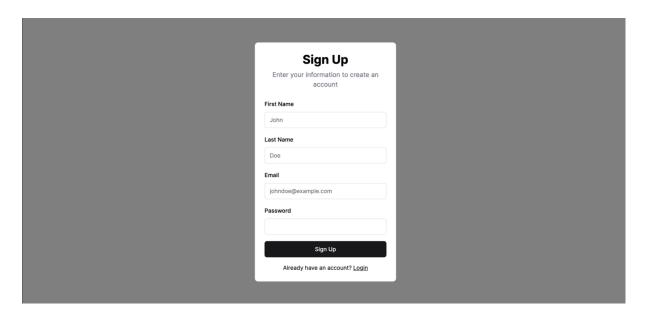
Step 1 - Add routing to the react app

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

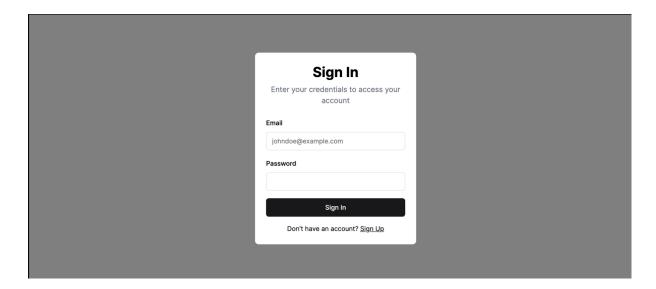
▼ Solution

Step 2 - Create and hook up Signup page



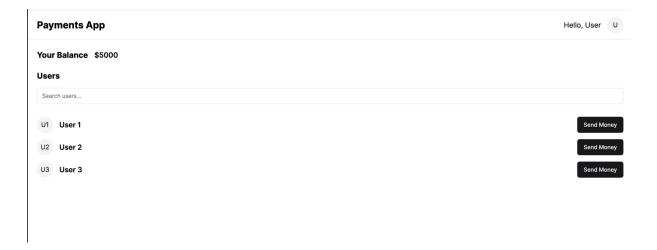
If the user signup is successful, take the user to \(\sqrt{dashboard} \)
If not, show them an error message

Step 3 - Create the signin page

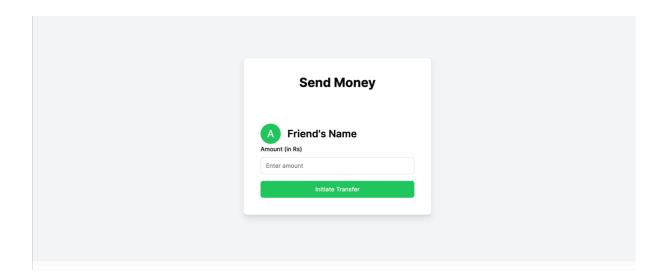


If the signin in successful, take the user to /dashboard

Step 4 - Dashboard page



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

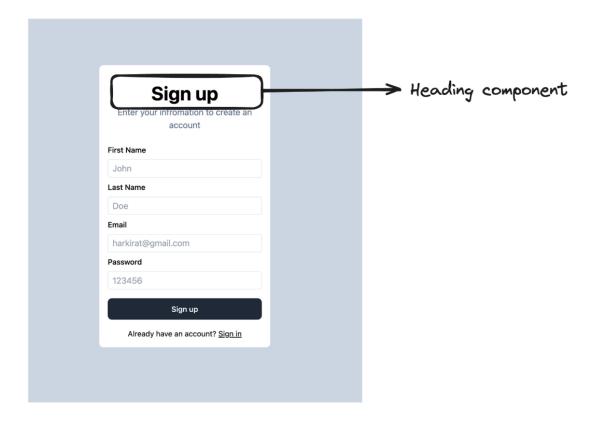


Step 5 - Auth Components

Full Signup component

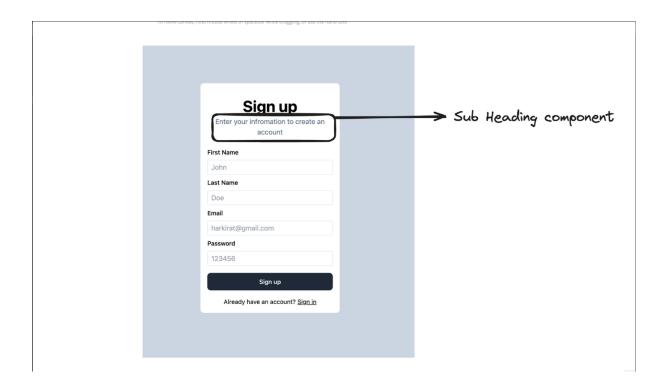
You can break down the app into a bunch of components. The code only contains the styles of the component, not any onclick functionality.

1. Heading component



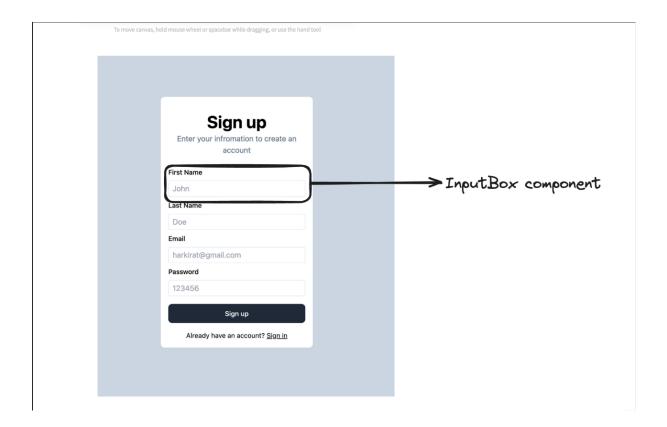
```
export function Heading({label}) {
   return <div className="font-bold text-4xl pt-6">
        {label}
      </div>
}
```

2. Sub Heading component



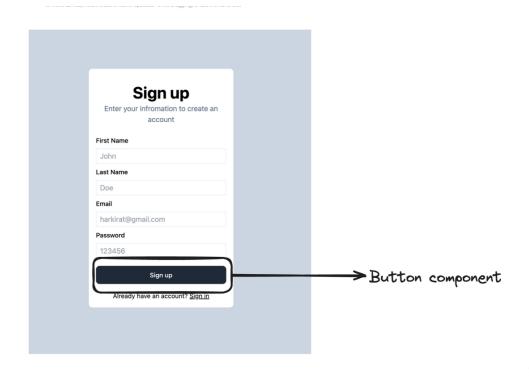
```
export function SubHeading({label}) {
  return <div className="text-slate-500 text-md pt-1 px-4 pb-4">
     {label}
  </div>
}
```

3. InputBox component



```
export function InputBox({label, placeholder}) {
    return <div>
        <div className="text-sm font-medium text-left py-
2">
        {label}
        </div>
        <input placeholder={placeholder} className="w-full
px-2 py-1 border rounded border-slate-200" />
        </div>
}
```

4. Button Component



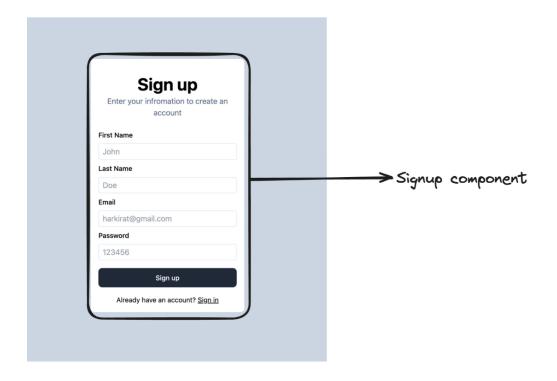
```
export function Button({label, onClick}) {
    return <button onClick={onClick} type="button" class
=" w-full text-white bg-gray-800 hover:bg-gray-900 focu
s:outline-none focus:ring-4 focus:ring-gray-300 font-med
ium rounded-lg text-sm px-5 py-2.5 me-2 mb-2">{label}</button>
}
```

This section was blindly copied from https://flowbite.com/docs/components/buttons/

5. BottomWarning

e:	gn up			
	fromation to create an account			
First Name				
John				
Last Name				
Doe				
Email				
harkirat@gma	il.com			
Password				
123456				
	Sign up			
Already have	re an account? <u>Sign in</u>	> ₿	ottomWarnir	g compone
				• •

Full Signup component



```
import { BottomWarning } from "../components/BottomWarni
ng"
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 ju
stify-center">
    <div className="flex flex-col justify-center">
      <div className="rounded-lg bg-white w-80 text-cent"</pre>
er p-2 h-max px-4">
        <Heading label={"Sign up"} />
        <SubHeading label={"Enter your infromation to cr</pre>
eate an account"} />
        <InputBox placeholder="John" label={"First Nam"</pre>
e"} />
        <InputBox placeholder="Doe" label={"Last Name"}</pre>
```

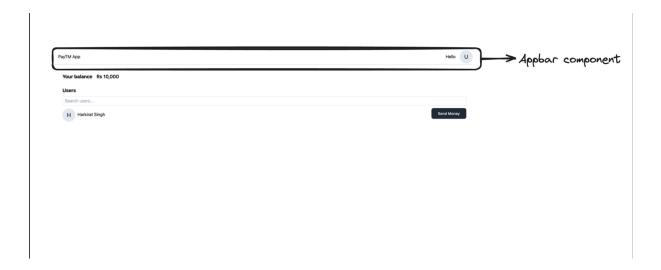
Full Signin component

▼ Code

```
import { BottomWarning } from "../components/BottomWarni
ng"
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 ju
stify-center">
    <div className="flex flex-col justify-center">
      <div className="rounded-lg bg-white w-80 text-cent"</pre>
er p-2 h-max px-4">
        <Heading label={"Sign in"} />
        <SubHeading label={"Enter your credentials to ac</pre>
cess your account"} />
        <InputBox placeholder="harkirat@gmail.com" label</pre>
```

Step 6 - Signin-ed Comonents

1. Appbar

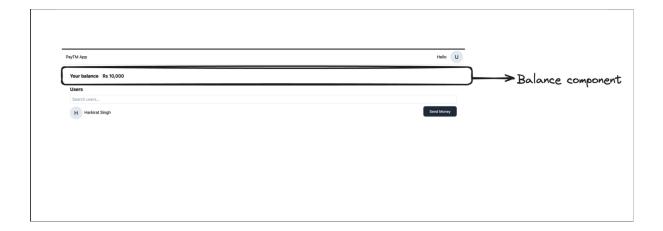


▼ Code

```
export const Appbar = () => {
    return <div className="shadow h-14 flex justify-betw
een">
    <div className="flex flex-col justify-center h-f">
```

```
ull ml-4">
             PayTM App
        </div>
        <div className="flex">
             <div className="flex flex-col justify-center"</pre>
h-full mr-4">
                 Hello
             </div>
             <div className="rounded-full h-12 w-12 bg-sl</pre>
ate-200 flex justify-center mt-1 mr-2">
                 <div className="flex flex-col justify-ce"</pre>
nter h-full text-xl">
                 </div>
             </div>
        </div>
    </div>
}
```

2. Balance



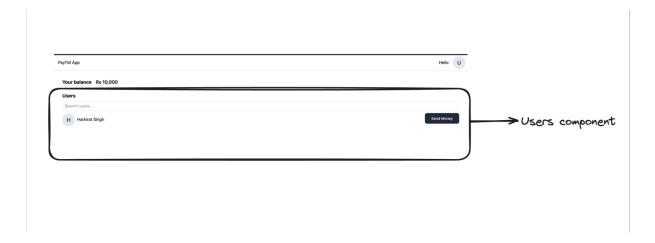
▼ Code

```
Your balance
</div>
</div className="font-semibold ml-4 text-lg">

Rs {value}

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

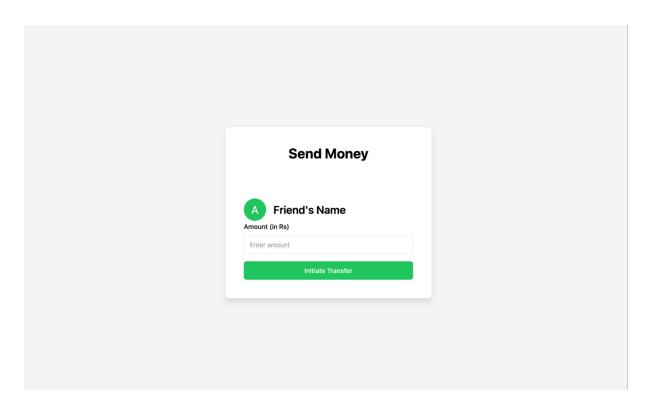
3. Users component



▼ Code

```
</div>
        <div className="my-2">
             <input type="text" placeholder="Search user</pre>
s..." className="w-full px-2 py-1 border rounded border-
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-sl</pre>
ate-200 flex justify-center mt-1 mr-2">
                 <div className="flex flex-col justify-ce</pre>
nter h-full text-xl">
                     {user.firstName[0]}
                 </div>
             </div>
             <div className="flex flex-col justify-center"</pre>
h-ful">
                 <div>
                     {user.firstName} {user.lastName}
                 </div>
            </div>
        </div>
        <div className="flex flex-col justify-center h-f"</pre>
ul">
             <Button label={"Send Money"} />
        </div>
    </div>
}
```

4. SendMoney Component



▼ Code

```
export const SendMoney = () => {
    return <div class="flex justify-center h-screen bg-g</pre>
ray-100">
        <div className="h-full flex flex-col justify-cen</pre>
ter">
             <div
                 class="border h-min text-card-foreground
max-w-md p-4 space-y-8 w-96 bg-white shadow-lg rounded-l
g"
             >
                 <div class="flex flex-col space-y-1.5 p-</pre>
6">
                 <h2 class="text-3xl font-bold text-cente"
r">Send Money</h2>
                 </div>
                 <div class="p-6">
                 <div class="flex items-center space-x-</pre>
4">
```

```
<div class="w-12 h-12 rounded-full b</pre>
g-green-500 flex items-center justify-center">
                    <span class="text-2xl text-white">A
</span>
                    </div>
                    <h3 class="text-2xl font-semibold">F
riend's Name</h3>
                </div>
                <div class="space-y-4">
                    <div class="space-y-2">
                    <label
                         class="text-sm font-medium leadi
ng-none peer-disabled:cursor-not-allowed peer-disabled:o
pacity-70"
                         for="amount"
                         Amount (in Rs)
                    </label>
                    <input
                         type="number"
                         class="flex h-10 w-full rounded-
md border border-input bg-background px-3 py-2 text-sm"
                         id="amount"
                         placeholder="Enter amount"
                    />
                    </div>
                    <button class="justify-center rounde"</pre>
d-md text-sm font-medium ring-offset-background transiti
on-colors h-10 px-4 py-2 w-full bg-green-500 text-whit
e">
                         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 https://github.com/100xdevs-cohort-2/paytm/blob/complete-solution/frontend/src/components/Users.jsx#L13
- 3. Call to transfer money b/w accounts https://github.com/100xdevs-cohort-2/paytm/blob/complete-solution/frontend/src/pages/SendMoney.jsx#L45