



TypeChecking in React

i need some identification

Mr.PropTypes

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Swipe





What is typechecking in React?

Typechecking is a process of validating the properties passed to components.

It helps in catching errors early and provides more reliable code.

Age : Elon

Error Message

React provides a built-in typechecking mechanism called **PropTypes**.





Creating User component

Let's create a simple User component that displays the name and age of a user.





Adding proptypes to User component

We can define the expected properties using the PropTypes object like this:

```
User.propTypes = {
  name: PropTypes.string.isRequired,
  age: PropTypes.number.isRequired
};
```

It specifies that the **name** property should be a **string** and the **age** property should be a **number**.

The **isRequired** flag means that the property is mandatory.





Creating UserList component

The UserList component can be used to render each user in the list.

```
import PropTypes from 'prop-types';
function UserList({users}) {
    return (
           {users.map((user) => (
               key={user.email}>
                   <span>{user.name}</span>
                   <span>{user.age}</span>
                   <span>{user.email}</span>
               1)}
       )
```





Adding proptypes to UserList component

In the **UserList** component, we expect the users property to be an **array** of objects with name, age and email properties.

```
UserList.propTypes = {
    users: PropTypes.arrayOf(
        PropTypes.shape({
            name: PropTypes.string.isRequired,
            age: PropTypes.number.isRequired,
            email: PropTypes.string.isRequired,
        })
    ).isRequired
};
```

PropTypes.shape method is used to define an object with specific shape or structure





To better understand this topic check out this video on my **YouTube** channel.









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