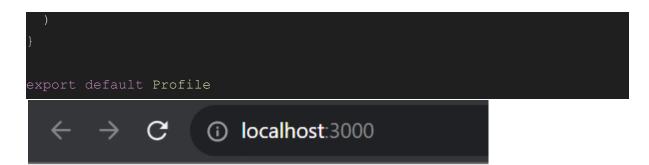
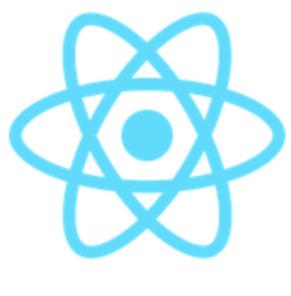
1. How to write your first React component

Tasks: 1. Create a simple functional component named Greeting that returns "Hello, World!" within a tag. 2. Modify the Greeting component to display "Hello, React!". 3. Create a Gallery functional component to display an image. 4. Add Greeting to the Gallery component and display the image and greeting. 5. Write a component called Profile which displays a hardcoded user's name and age.

import React from 'react'



Hello World!



Ajay19

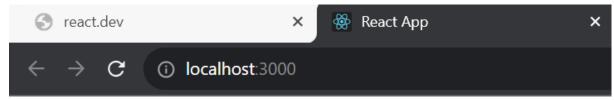
2. When and how to create multi-component files

Tasks: 1. Create a file named UserComponents.js and inside it, define two components: UserName and UserAge that display hardcoded names and ages respectively. 2. Export both UserName and UserAge from UserComponents.js. 3. In a separate file, import and use both UserName and UserAge components using named imports. 4. Convert UserAge into a default export and modify the importing file to accommodate the change. 5. Split UserName and UserAge into separate files and adjust your imports.

```
import React from 'react'
import Username from './Username'
import UserAge from './UserAge'

const UserComponen = () => {
```

```
export default UserComponen
import React from 'react'
const Username = () => {
       <h1>Ajay</h1>
export default Username
import React from 'react'
const UserAge = () => {
export default UserAge
```



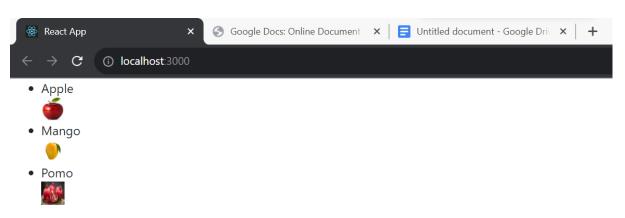
Ajay

19

- 3. How to add markup to JavaScript with JSX Tasks:
- 1. Create a component that displays an unordered list (

) of 3 favorite fruits. 2. Update the above component to display a picture () of each fruit next to its name. (Use hardcoded image URLs for now.) 3. Create a component WebsiteLink that displays a hardcoded URL in an anchor () tag. 4. Make a JSX component that mimics a simple blog post with a title, content, and author. (All hardcoded.) 5. Design a Footer component with hardcoded copyright information using JSX.

```
import React from 'react'
const Fruits = () => {
           Apple<br/>img
src="https://healthjade.com/wp-content/uploads/2017/10/apple-fruit.jpg"
height={30}width={30}></imp>
           Mango<br/>img
src='https://5.imimg.com/data5/SELLER/Default/2023/5/311350790/HP/RW/VW
/190019658/alphonso-mango-500x500.jpeg'height={30}width={30}></img></li
           Pomo<br/>img
src='https://images.healthshots.com/healthshots/en/uploads/2021/09/2718
4641/pomegranate-1600x900.jpg'height={30}width={30}></img>
export default Fruits
import React from 'react'
const Weblink = () => {
       <a href='https://www.youtube.com'>Click</a>
export default Weblink
const Blog = () => {
       title: "Book",
```



Click

BookSummaSri

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4. JavaScript in JSX with Curly Braces

Tasks: 1. Display today's date in a component using the JavaScript Date object. 2. Create a component that displays a random quote from a hardcoded list of quotes. 3. Write a component called MathResult that displays the result of a simple arithmetic operation (e.g., addition) of two hardcoded numbers. 4. Create a component that displays the word count of a hardcoded paragraph. 5. Create a component that calculates and displays the product of two hardcoded numbers.

```
import React from 'react'
const date = new Date();
const today=date.getDate();
console.log(today);
const Today = () => {
  let ran=Math.floor(Math.random()*3);
  let print=quotes[ran];
      <h>{`Motivated Quotes is ${print}`}</h>
export default Today
const Math = () \Rightarrow \{
   const b=5;
export default Math
```



Today date is 22Motivated Quotes is Do

Addition of 2 Number is 10 Division of 2 Number is 25

5. Passing Props to a Component

Tasks: 1. Create a Movie component that displays the title, year, and rating of a movie using props. 2. Update the Movie component to have a default prop for rating as "Not Rated". 3. Design a Button component that takes in a label prop and displays the label on the button. 4. Make a UserProfile component and pass an object containing user details as props and display them. 5. Develop a Modal component that accepts and displays a title and some content passed as props



Movies details are Non Not rated 2040

Done

Ajay Developer

Full

6. Conditional Rendering

Tasks: 1. Design a UserStatus component that displays "Online" or "Offline" based on a isOnline prop. 2. Write a component AgeCheck that displays "Adult" or "Minor" based on an age prop. 3. Create a Loading component that either displays "Loading..." or content based on a isLoading prop. 4. Make a Notification component that conditionally displays a message if a message prop is provided. 5. Design a Feedback component that displays feedback in either green (positive) or red (negative) based on a type prop

```
import React from 'react'
import Gretting from './components/Gretting'
import Gallery from './components/Gallery'
import Profile from './components/Profile'
import UserComponen from './components/UserComponen'
import Fruits from './components/Fruits'
import Weblink from './components/Weblink'
import Blog from './components/Blog'
import Footer from './components/Footer'
import Today from './components/Today'
import Math from './components/Math'
import Movie from './components/Movie'
import Userstatus from './components/Userstatus'
import Agecheck from './components/Agecheck'
import Loading from './components/Loading'
import Feedback from './components/Feedback'
 let isOnline="online";
   if(isOnline=="online")
        isOnline="online"
        isOnline="offline";
    let isAge=19;
    let isAgePrint="";
    if(isAge<=18)</pre>
      isAgePrint="Minor"
      isAgePrint="Adult"
    let contentPrint="";
    if(content.length==0)
```

```
contentPrint="Loading"
     contentPrint=content
   let type="green";
   if(type=="red")
     type="red";
     type="green"
     <Userstatus check={isOnline}/>
     <Agecheck age={isAgePrint}/>
     <Loading load={contentPrint}/>
     <Feedback feed={type}/>
export default App
import React from 'react'
const Feedback = (props) => {
   <div>{props.feed}</div>
export default Feedback
import React from 'react'
const Loading = (props) => {
   <div>{props.load}</div>
export default Loading
import React from 'react'
```



online Adult

Learning Mern Stack green

- 7. Rendering Lists Tasks:
- 1. Write a component that takes an array of names as a prop and displays them in a list. 2. Create a TodoList component that displays a list of tasks and marks the completed ones. 3.

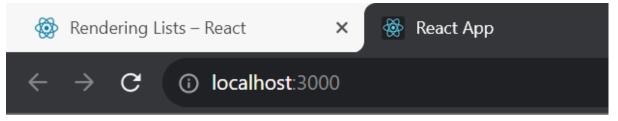
Design a ProductList component that only displays products with a price less than \$10 using the filter() method. 4. Make a UserList component that takes an array of user objects and displays their names and emails. 5. Create a ShoppingCart component that displays a list of items and their prices. Ensure each item has a unique key.

```
import React from 'react'
import Gretting from './components/Gretting'
import Gallery from './components/Gallery'
import Profile from './components/Profile'
import UserComponen from './components/UserComponen'
import Fruits from './components/Fruits'
import Weblink from './components/Weblink'
import Blog from './components/Blog'
import Footer from './components/Footer'
import Today from './components/Today'
import Movie from './components/Movie'
import Userstatus from './components/Userstatus'
import Agecheck from './components/Agecheck'
import Loading from './components/Loading'
import Feedback from './components/Feedback'
import Products from './components/Products'
import UserList from './components/UserList'
import Shopping from './components/Shopping'
const App = () => {
 const list=arr.map((item)=>
   {li>{item}
   completed: "yes"
    task: "relearn",
    completed: "no"
```

```
completed:"yes"
];
const taskItem=task.filter(item=>
item.completed==='yes')
const taskMap=taskItem.map((item)=>
   {li>{item.task } 
 lap:"lenovo",
 price:"5"
 lap:"dell",
 price:"11"
 lap:"hp",
}];
const proFilt=pro.filter(item=>item.price<10);
const disPro=proFilt.map((item)=>
   {item.lap+" "}
})
const user=[
   email:"21e202@kce"
```

```
email:"21e251@kce"
   email:"21e238@kce"
];
const mapUser=user.map((item)=>
   price:"5"
const shopItem=shop.map((item)=>
     {item.id +" "+item.item+" "+item.price+" "}
```

```
<Todolist val={taskMap}/>
export default App
import React from 'react'
const Shopping = (props) => {
       {props.val}
export default Shopping
import React from 'react'
const UserList = (props) => {
        {props.val}
export default UserList
import React from 'react'
const Products = (props) => {
       {props.val}
export default Products
import React from 'react'
```



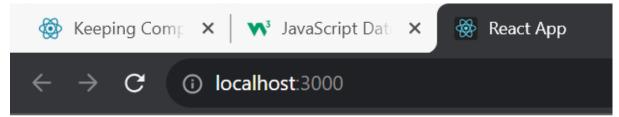
- Ajay
- Sri
- Ram
- learn√
- unlearn√

lenovo hp

Ajay 21e202@kce Sri 21e251@kce Ragh 21e238@kce 0 banana 10 1 nuts 5 2 fruits 7

- 8. Keeping Components Pure Tasks:
- 1. Convert an impure component that uses Math.random() within the render phase to a pure one. 2. Create a pure component Clock that displays the current time and updates every second without causing side-effects during the render phase. 3. Use Strict Mode in an existing application and identify any warnings in the console. 4. Convert a class-based component with side effects in its lifecycle methods to a pure functional component using hooks. 5. Make a pure ProfilePic component that takes a user ID as a prop and fetches the user's profile picture URL from an array without side-effects during rendering.

```
<ProfileUser person={{</pre>
       imageId: 'MK3eW3A',
export default App
import React from 'react'
const ProfileUser = ({person}) => {
    function Header({person}) {
       return <h1>{person.imageId}</h1>;
      function Avatar({person}) {
            className="avatar"
           alt={person.name}
           width={50}
           height={50}
        <Header person={person}/>
export default ProfileUser
import React from 'react'
const Today = ({text}) => {
 let hours=text.getHours();
if(hours>=0 && hours<=6)
```



7:10:18 PM IrWQx8I MK3eW3A