Npx create-react-app bulletinblaze

This command inside our folder

Include bootstrap css, js links inside index.html file inside public folder

Changing title inside index.html to bulletinblaze...

Now changing content inside meta tags inside index.html

Remove index.css delete all code of it

Create components folder inside src, then create Navbar.js inside components folder

Write rcep (react class based component) in Navbar.js and import react class based template

Now go to bootstrap and copy navbar code and paste it in Navbar.js

Replace class with className, and put all closing tags

CONCEPT- Render is a life cycle method- jab react ek component ko run karti hai toh kuch series of methods run hote hai

jsx ko compile krna and screen par html ko run karna

About

Yaha par href mai /about likha hai inside navbar.js

BulletinBlaze

Yaha pr href mai / likha hai inside navbar.js

HREF MAI "#" nahi use karte "/" use krte hai

News.js, newsitem.js files banao

Ab News mai newsitem.js ko import karo

- <News/>
- -> newsitem news ke andar hai

Ab mai newsitem mai kuch changes krta hu toh vo automatically news ke andar changes show ho rhe hai kyuki news ke andar newsitem hai aur news ne import kara hai newsitem ko thats the **POWER OF REACT**

endpoint is a specific URL (Uniform Resource Locator) or URI (Uniform Resource Identifier) that a client can access to interact with a web service or an application programming interface (API).

Each endpoint typically corresponds to a specific operation or resource. For example, you might have endpoints like /api/books/{id} to retrieve a specific book by its ID, or /api/books/{id}/reviews to retrieve the reviews for a particular book.

Sabse bahar ek file banao sampleOutput.json

Go to newsapi website

Ab login pr click karke ek account banao

Go to top headlines section and copy this-

https://newsapi.org/v2/top-headlines?country=us&apiKey=d60dc46da18 2403294520833a18e8a0f

Type your url on the browser and copy the json from there

Koi bhi server json bhej raha hota hai toh vo ek compress form mai bhejta hai

Go to component section in bootstrap for newsitem and paste the code in the file

In the class based components we use JS concept which is destructuring in arrays render ke andar isko likhna

let {title, description} = this.props;

Uske baad direct jaha title likhoge vha props pas ho jayega

We cannot use inline style in react style="18 rem" likhna galat hai

```
style={{width: "18 rem"}}
```

Ese likh sakte hai

Js ke andar ek object banaya { } ese karke bahar wala bracket signifies ki vo ek { } js script hai

News file mai jaake newsitem ko div ke andar daalo

```
export class NewsItem extends Component {
    constructor() {
        super();
    }
}
```

constructor tab tab call hoga jab ek component call hoga, matlab jab us class ka object banega

News.js file se apan apni http calls marenge aur waha se apni saari news leke aayenge toh apan News.js mai constructor banayenge!!!! Newsitem mai nahi upar bas ek example dikhaya hai

```
Articles ek array hai kuch is type se

Articles = [ json yaha pe ]

constructor(){
    //articles ek array hai
    super();
    console.log('Hello i am a constructor from news file or news component');
    this.state = {
        articles = this.articles
    }
}
```

Yaha state ek array hai!!!!!!!!!

- State tab use karte hai jab apan ko kuch cheez baar baar change hoti huye dikhe page par bina load hote huye
- Props ko change nahi kar sakte apan, props are read only

Map ek higher order array method hai

```
{this.state.articles.map((element) => { console.log(element) })}
```

Map jab use karte toh ek unique key honi chahiye aur elements ko ek unique key deni padegi

Ye upar wale code se iteration kar sakte hai map wala method use karke using state concept

{js ka ek variable ke liye curly bahar lagate hai}

```
{this.state.articles.map((element) => {
    return <div className="col-md-4" key={element.url}>
```

slice(0,88) matlab 88 characters le lega text ke

componentDidMount(){
//function tab run hoga jab render function ya method run ho jayega
componentDidMount render ke baad run hoga

```
async componentDidMount() {
    console.log('componentDidMount');
let url =
    'https://newsapi.org/v2/top-headlines?country=us&apiKey=d60dc46da182403
294520833a18e8a0f';
let data = await fetch(url); //using fetch api concept in JS and
returns a promise
let parsedData = await data.json();
console.log(parsedData);
}
```

Ek async function await kar sakta hai kuch promises ke resolve hone ka fetch function ek promise return karta hai

Ye jo data aaya hai tum isko text mai convert kar sakte ho ya tum usko json mai parse karna chahte ho vo kar sakte ho

Baar baar reload mat karna usse api ki limit khatam hoti hai

```
async componentDidMount() {
    console.log('componentDidMount');
let url =
    'https://newsapi.org/v2/top-headlines?country=us&apiKey=d60dc46da182403
294520833a18e8a0f';
let data = await fetch(url); //using fetch api concept in JS and
    returns a promise
let parsedData = await data.json();
console.log(parsedData);
this.setState({articles: parsedData.articles})
}
```

Main concepts studied till now are in this code:-

```
export class News extends Component {
    constructor(){
        super();
        console.log('Hello i am a constructor from news file or news
        this.state = {
           articles : [],
async componentDidMount() {
    console.log('componentDidMount');
let url =
let data = await fetch(url); //using fetch api concept in JS and
let parsedData = await data.json();
console.log(parsedData);
this.setState({articles: parsedData.articles})
 render() {
     <h2> BulletinBlaze - Top Headlines</h2>
     <div className="row">
      {this.state.articles.map((element) => {
        return <div className="col-md-4" key={element.url}>
        <NewsItem props walatitle={element.title ?</pre>
element.title.slice(0, 45): ""} props waladescription = {element.title
? element.description.slice(0,88) : ""}
props walaimageUrl={element.urlToImage}
            props_walanewsUrl = {element.url}
```

&page=2 karke api ki link mai jaake 2nd page par articles ko display kar sakte ho

https://newsapi.org/v2/top-headlines?country=us&apiKey=d60dc46da182403294520833a18 e8a0f&page=2

Now implementing previous and next button kyuki json mai 36 objects the and website par sirf 20 show ho rhe the baaki ko show karwane ke liye next button banaya and pehele ko show karwane ke liye previous button banaya

this.handlePrevClick kyuki apan class ke andar implement kar rhe hai

```
<button disabled={this.state.page<=1} type="button" class="btn
btn-primary" onClick={this.handlePrevClick}>&larr; Previous</button>
```

Button ko disabled kardo agar this.state.page<=1 hai toh

```
handlePrevClick = () => {
console.log('previous');
}
```

State mai page ko add kiya kyuki vo previous and next mai kaam aayega

```
this.state = {
      articles : [],
      loading : false,
      page : 1
}
```

Url mai &page=1 karo previous ke liye page=page-1 and next ke liye page=page+1

Iske baad is function mai ye add kiya

```
handlePrevClick = async () => {
    console.log('componentDidMount');
let url =
    https://newsapi.org/v2/top-headlines?country=us&apiKey=d60dc46da1
82403294520833a18e8a0f&page=${this.state.page-1}`;
    let data = await fetch(url); //using fetch api concept in JS
and returns a promise
    let parsedData = await data.json();
    console.log(parsedData);
    this.setState({articles: parsedData.articles})
console.log('previous');
this.setState({
    page: this.state.page-1,
        articles: parsedData.articles
})
handleNextClick =() => {
    console.log('next');
}
```

Iske baad is function mai ye add kiya

```
handleNextClick = async () => {
    console.log('componentDidMount');
let url =
    https://newsapi.org/v2/top-headlines?country=us&apiKey=d60dc46da1
82403294520833a18e8a0f&page=${this.state.page+1}`;
    let data = await fetch(url); //using fetch api concept in JS
and returns a promise
    let parsedData = await data.json();
    console.log(parsedData);
    console.log('next');
    this.setState({
        page: this.state.page+1,
```

```
articles: parsedData.articles
})
```

Kab tak next button valid hoga apan ko empty data nahi dikhana hai page par uske liye logic use kiya hai totalResults jo parsed data se number of results mile hai unko 20 se divide karke ek logic banaya hai

Usko state objects mai daaldo

And condition check se display karo

And next button ko bhi disabled kardo jaise hi vo condition true hoti hai

Page size ko props ke jaise pass karwa skte hai taaki number of news per page hamare upar rahe decide karne ko ye changes url mai karenge

```
pageSize=${this.props.pageSize}`;
```

Importing loading gif and placing it in spinner js This code is from News.js

Bas loading wale comments ko padho dhyaan se jo green mai likhe hai

```
handleNextClick = async () => {
      console.log(this.state.totalResults);
      if (!(this.state.page + 1 >
Math.ceil(this.state.totalResults / this.props.pageSize))) {
         let url =
82403294520833a18e8a0f&page=${this.state.page +
1}&pageSize=${this.props.pageSize}`;
          this.setState({loading:
true });
          // jab tak fetch nahi ho rha tab
tak loading wala gif dikhao isleye await
wali line ke upar likha hai
in JS and returns a promise
         let parsedData = await data.json();
               //jaise hi parsedData mila
wese hi apan ne loading ko false kar
diya
         this.setState({loading: false});
         console.log(parsedData);
```

```
this.setState({
        page: this.state.page + 1,
        articles: parsedData.articles,
        totalResults: parsedData.totalResults
    })
}
```

Point to note:-

Jab hamari app start ho rhi hai toh vo componentDidmount function se start ho rhi hai toh waha bhi loading wala lagayenge

News.js mai jaake url mai location par props pass karo

```
let url =
    `https://newsapi.org/v2/top-headlines?country=${this.props.country
}&apiKey=d60dc46da182403294520833a18e8a0f&page=${this.state.page +
1}&pageSize=${this.props.pageSize}`;
```

And navbar par jao type of news set karo naam likho jaise ki business, general, sports, health, etc..

Now we will add react routes in our website taaki alag alag pages par jaa sake

App.js file mai kuch is type se code read karo

```
import { Link } from 'react-router-dom'
```

Now go to Navbar.js and replace "a" with "link" and "href" with "to" like this One example of this is:-

Abhi sirf website ke end points change ho rhe hai uske component wapis se **mount** nahi ho rhe ab apan chahte hai ki uske component wapis se mount ho

Directly refresh ke baad jispr click karoge vo khulega but jaise hi dusra heading click karoge to nahi khulega usi time matlab **re-mount** nahi ho rha hai

Matlab re-mount matlab force mount denge toh naya request ki tarah samjhega react uske liye apan key add karte hai key kuch bhi ho sakta hai

Now change the title according to the country wise news shown Constructor ke andar props pass kardo Aur document.title = this.props.country; kardo

```
constructor(props) {
    //articles ek array hai
    super(props);
    console.log('Hello i am a constructor from news file or
news component');
    this.state = {
        articles: [],
        loading: false,
        page: 1
    }
    document.title = `${this.props.country} - BulletinBlaze`;
}
```

Now we want infinite scroll so we import infinite scroll in News.js

```
import InfiniteScroll from "react-infinite-scroll-component";
```

And we place our map wala iterator div inside container div in News.js file

Now adding top loader bar in our website ->

https://www.npmjs.com/package/react-top-loading-bar

App.js mai loading bar ko import kara hai

```
import LoadingBar from 'react-top-loading-bar'
```

Inside app.js we do this-

```
async componentDidMount() {
    this.props.setProgress(10);
```

```
console.log('componentDidMount');
    let url =
    `https://newsapi.org/v2/top-headlines?country=${this.props.country}&api
Key=d60dc46da182403294520833a18e8a0f&page=1&pageSize=${this.props.pageSize}`;
    // jab tak fetch nahi ho rha tab tak loading wala gif dikhao isleye await wali line ke upar likha hai
        this.setState({ loading: true });
        let data = await fetch(url); //using fetch api concept in JS and returns a promise
        this.props.setProgress(30);
        let parsedData = await data.json();
        this.props.setProgress(50);
        //jaise hi parsedData mila wese hi apan ne loading ko false kar diya
        this.setState({ loading: false });
        console.log(parsedData);
        this.setState({ articles: parsedData.articles, loading: false })
        this.props.setProgress(100);
}
```

Now hiding api key:-

.env.local file banao main folder ke andar

```
REACT_APP_NEWS_API = 'd60dc46da182403294520833a18e8a0f';
```

Ye line likho

Ab Aapp.js mai isko add karo-

```
export default class App extends Component {
   apiKey = process.env.REACT_APP_NEWS_API;
```

Props pass kardo App.js mai

News.js ke url mai props pass kardo