

1. Create a new application
Create-react-app namecruddemo
2. Install bootstrap and react-bootstrap
Npm install bootstrap react-bootstrap
3. Add following entry in app.css
Import bootstrap/dist/css/bootstrap.min.css
4. Create a folder in src folder by name **components**.
5. Add 2 functional components inside the folder.

<pre>const NameForm=(props)=>{ return(<div> <h1> in NameForm component </div>) } export default NameForm;</pre>	<pre>const NameList=(props)=>{ return(<div> <h1> in NameListcomponent </div>) } export default NameForm;</pre>
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6. Add call to the component in App.js
import logo from './logo.svg';
import './App.css';
import 'bootstrap/dist/css/bootstrap.min.css'
import NameList from './components/NameList';
import NameForm from './components/NameForm';
import {useState} from 'react';
function App() {
 //create a array as state to store names of friends
 const [names,setnames]=useState(['Rajan','Revati','Atharva']);

 return (
 <div>
 /* display names array in unordered list format */
 <NameList namearr={names}></NameList>
 <NameForm insertname={addnameinarr}></NameForm>
 </div>
);
}

export default App;
7. In NameList component display array contents in unordered list format
const NameList=(props)=>{
 let renderList=props.namearr.map((nm,index)=><li key={index}>{nm})
 return(
 <div>
 <h1>Friend's Name list</h1>

```

    <ul>
      {renderList}
    </ul>
  </div>

```

```

  )
}

```

export default NameList;

8. Design NameForm component

import {useState} from 'react';

const NameForm=(props)=>{

//create a stet to store the value of the textbox

const [name,setname]=useState("");

//change event on the textbox to change the value of name state, as soon as user changes the textbox contents

const handlechange=(event)=>{

setname(event.target.value);

}

//add click event to add name in to the array in App component

//insertname property should be added in Nameform component inside App.js

const addname=()=>{

//it will call addnameinarr function in App.js, name also will be passed as parameters

props.insertname(name);

//clear the text box contents

setname("");

}

return(

<div>

<hr></hr>

Name: {name}

<form>

<div class="form-group">

<label for="name">Name : </label>

<input type="text" name="name" class="form-control" id="name"

value={name}

onChange={handlechange}

/>

</div>

<button type="button" class="btn btn-primary" name="btn" id="btn"

onClick={addname}>Add</button>

</form>

</div>

)

}

export default NameForm;

To delete the name from names array in App.js

1. Add delete button in NameForms.js, and add click event
`<button type="button" class="btn btn-primary" name="btn" id="btn"
onClick={delname}>Delete</button>`
2. Add delname function in NameForm.js

```
const delname={()=>{  
  props.deletename(name);  
  setname("");  
}}
```
3. In App.js add deletename property in NameForm component call
`<NameForm insertname={addnameinarr} deletename={removenamename}></NameForm>`
4. Then add removenamename function in App.js to delete the name

```
const removenamename=(name)=>{  
  //keep all the names other than name  
  let newarr=names.filter(nm=>nm!==name);  
  //change the names array to newarr  
  setnames(newarr)  
}
```

To modify name

1. Add following button in NameForm.js
`<button type="button" class="btn btn-primary" name="btn" id="btn"
onClick={updatenamename}>update</button>`
2. Add function updatenamename in NameForm.js

```
const updatenamename={()=>{  
  var newname=prompt("Enter new name");  
  props.updatedata(name,newname);  
  setname("");  
}}
```
3. Add updatedata property in NameForm component call in App.js
`<NameForm insertname={addnameinarr} deletename={removenamename}
updatedata={modifyname}></NameForm>`
4. Add modifyname in App.js

```
const modifyname=(nm,newnm)=>{  
  //it will replace matching name by newname  
  //and all other names will remain as it is  
  let newarr=names.map(ob=>ob===nm?newnm:ob)  
  setnames(newarr);  
}
```

To do form validation

1. Add errormsg as state in NameForm.js
`const [errormsg,seterrormsg]=useState("");`
2. Add following code in addname function.

```
const addname={()=>{  
  if(name=== "" || name.trim().length===0){
```

```

        //alert("name cannot be blank")
        seterrmsg("name cannot be blank");
        return;
    }
    props.insertname(name);
    seterrmsg("");
    //clear the text box contents
    setname("");
}

```

3. To show the error message beside text box add span tag


```

<input type="text" name="name" class="form-control" id="name"
    value={name}
    onChange={handlechange}
    /><span>{errmsg}</span>

```