Method-1- <https://react-bootstrap.github.io/getting-started/introduction> react-bootstarp

C:\curd>npm install react-bootstrap bootstrap

Two parts bootstrap css + react linker with bootstrap (react-bootstrap)

**After installation import bootstrap Index.js**

import 'bootstrap/dist/css/bootstrap.min.css'; only need to add css no need to add js

src/Form.js

import React, { Component } from 'react'

class Form extends Component{

render()

{

return ('');

}

}

export default Form;

**We need to call each component which we will use in the Form component**

import React, { Component } from "react";

import { Form as BForm, Button, Col, Row, Container } from "react-bootstrap";

class Form extends Component {

render() {

return (

<Container>

<Row>

<Col sm={6}>

<BForm>

<BForm.Group controlId="uname">

<BForm.Label>UserName</BForm.Label>

{/\* No need to put id of input type that will be manage using form group controlId value, it will automatic set label for and input id \*/}

<BForm.Control

name="uname"

type="text"

placeholder="Username"

/>

</BForm.Group>

<BForm.Group controlId="email">

<BForm.Label>Email</BForm.Label>

{/\* No need to put id of input type that will be manage using form group controlId value, it will automatic set label for and input id \*/}

<BForm.Control name="email" type="email" placeholder="email" />

</BForm.Group>

<BForm.Group controlId="city">

<BForm.Label>City</BForm.Label>

{/\* No need to put id of input type that will be manage using form group controlId value, it will automatic set label for and input id \*/}

<BForm.Control as="select" name="city">

<option>Delhi</option>

<option>Noida</option>

</BForm.Control>

</BForm.Group>

<BForm.Group controlId="message">

<BForm.Label>Message</BForm.Label>

{/\* No need to put id of input type that will be manage using form group controlId value, it will automatic set label for and input id \*/}

<BForm.Control as="textarea" name="message" />

</BForm.Group>

<BForm.Group>

<Button variant="success">Register</Button>

</BForm.Group>

</BForm>

</Col>

<Col sm={6}>sm 6</Col>

</Row>

</Container>

);

}

}

export default Form;

Method-2- <https://reactstrap.github.io/> reactstrap both are same but only difference of syntax writing, latest version is using bootstrap 4

**Routing**

**React router for core application**

**React router dom for web application**

**React router native for mobile application**

**So we are using web application so need to install C:\curd>npm i react-router-dom**

**Let’s make the CURD application**

1. **Always load json data after first render means componentDidMount()**

**ProductList.js**

import React from "react";

import { Table, Button } from "react-bootstrap";

class ProductList extends React.Component {

constructor(props) {

super(props);

this.state = {

error: null,

products: []

};

}

componentDidMount() {

const apiUrl = "http://localhost/curdapi/getallprodouctsapi.php";

fetch(apiUrl)

.then(res => res.json())

.then(

result => {

this.setState({

products: result

});

},

error => {

this.setState({ error });

}

);

}

render() {

const { error, products } = this.state;

if (error) {

return <div>Error: {error.message}</div>;

} else {

return (

<div>

<h2>Product List</h2>

<Table>

<thead>

<tr>

<th>#ID</th>

<th>Product Name</th>

<th>SKU</th>

<th>Price</th>

<th>Action</th>

</tr>

</thead>

<tbody>

{products.map(product => (

<tr key={product.id}>

<td>{product.id}</td>

<td>{product.product\_name}</td>

<td>{product.sku}</td>

<td>{product.price}</td>

<td>

<Button

variant="info"

onClick={() => this.props.editProduct(product.id)}

>

Edit

</Button>

</td>

</tr>

))}

</tbody>

</Table>

</div>

);

}

}

}

export default ProductList;

**AddProduct.js**

import React from "react";

import { Row, Form, Col, Button } from "react-bootstrap";

class AddProduct extends React.Component {

constructor(props) {

super(props);

this.initialState = {

id: "",

productName: "",

price: "",

sku: ""

};

if (props.product) {

this.state = props.product;

} else {

this.state = this.initialState;

}

this.handleChange = this.handleChange.bind(this);

this.handleSubmit = this.handleSubmit.bind(this);

}

handleChange(event) {

const name = event.target.name;

const value = event.target.value;

this.setState({

[name]: value

});

}

handleSubmit(event) {

event.preventDefault();

this.props.onFormSubmit(this.state);

this.setState(this.initialState);

}

render() {

console.log(this.state);

let pageTitle;

if (this.state.id) {

pageTitle = <h2>Edit Product</h2>;

} else {

pageTitle = <h2>Add Product</h2>;

}

return (

<div>

{pageTitle}

<Row>

<Col sm={6}>

<Form onSubmit={this.handleSubmit}>

<Form.Group controlId="productName">

<Form.Label>Product Name</Form.Label>

<Form.Control

type="text"

name="productName"

value={this.state.productName}

onChange={this.handleChange}

placeholder="Product Name"

/>

</Form.Group>

<Form.Group controlId="sku">

<Form.Label>SKU</Form.Label>

<Form.Control

type="text"

name="sku"

value={this.state.sku}

onChange={this.handleChange}

placeholder="SKU"

/>

</Form.Group>

<Form.Group controlId="price">

<Form.Label>Price</Form.Label>

<Form.Control

type="text"

name="price"

value={this.state.price}

onChange={this.handleChange}

placeholder="Price"

/>

</Form.Group>

<Form.Group>

<Form.Control type="hidden" name="id" value={this.state.id} />

<Button variant="success" type="submit">

Save

</Button>

</Form.Group>

</Form>

</Col>

</Row>

</div>

);

}

}

export default AddProduct;

**App.js**

import React, { Component } from 'react';

import './App.css';

import { Container, Button, Alert } from 'react-bootstrap';

import ProductList from './ProductList';

import AddProduct from './AddProduct';

class App extends Component {

constructor(props) {

super(props);

this.state = {

isAddProduct: false,

error: null,

response: {},

product: {},

isEditProduct: false

}

this.onFormSubmit = this.onFormSubmit.bind(this);

}

onCreate() {

this.setState({ isAddProduct: true });

}

onFormSubmit(data) {

let apiUrl;

if(this.state.isEditProduct){

apiUrl = 'http://localhost/curdapi/updateprodouctapi.php';

} else {

apiUrl = 'http://localhost/curdapi/createprodouctapi.php';

}

const myHeaders = new Headers();

myHeaders.append('Content-Type', 'application/json');

const options = {

method: 'POST',

body: JSON.stringify(data),

myHeaders

};

fetch(apiUrl, options)

.then(res => res.json())

.then(result => {

this.setState({

response: result,

isAddProduct: false,

isEditProduct: false

})

},

(error) => {

this.setState({ error });

}

)

}

editProduct = productId => {

const apiUrl = 'http://localhost/curdapi/editprodouctapi.php';

const formData = new FormData();

formData.append('productId', productId);

const options = {

method: 'POST',

body: formData

}

fetch(apiUrl, options)

.then(res => res.json())

.then((result) => {

//console.log(result);

this.setState({

product: result,

isEditProduct: true,

isAddProduct: true

});

},

(error) => {

this.setState({ error });

}

)

}

render() {

let productForm;

if(this.state.isAddProduct || this.state.isEditProduct) {

productForm = <AddProduct onFormSubmit={this.onFormSubmit} product={this.state.product} />

}

return (

<div className="App">

<Container>

<h1 style={{textAlign:'center'}}>React Tutorial</h1>

{!this.state.isAddProduct && <Button variant="primary" onClick={() => this.onCreate()}>Add Product</Button>}

{this.state.response.status === 'success' && <div><br /><Alert variant="info">{this.state.response.message}</Alert></div>}

{!this.state.isAddProduct && <ProductList editProduct={this.editProduct}/>}

{ productForm }

{this.state.error && <div>Error: {this.state.error.message}</div>}

</Container>

</div>

);

}

}

export default App;

**Above code will work same as edit record and add record, now we will make delete record**

import React from "react";

import { Table, Button } from "react-bootstrap";

class ProductList extends React.Component {

constructor(props) {

super(props);

this.state = {

error: null,

products: []

};

}

componentDidMount() {

const apiUrl = "http://localhost/curdapi/getallprodouctsapi.php";

fetch(apiUrl)

.then(res => res.json())

.then(

result => {

this.setState({

products: result

});

},

error => {

this.setState({ error });

}

);

}

deleteProduct=productId=>{

console.log(productId);

const apiUrl="http://localhost/curdapi/deleteprodouctapi.php";

const formData=new FormData();

formData.append("id",productId);

const options={

method:"POST",

body:formData

}

**//first collect all products state data**

**const {products}=this.state;**

fetch(apiUrl,options).then(res=>res.json()).then((result)=>{

this.setState({

isDeletedProduct:true,

pid:productId,

isAddProduct: false,

**//update new array of products by filter remove state product equal to deleted product id and remove data from DOM**

**products:products.filter(product=>product.id!==productId)**

})

})

}

render() {

const { error, products } = this.state;

if (error) {

return <div>Error: {error.message}</div>;

} else {

return (

<div>

<h2>Product List</h2>

<Table>

<thead>

<tr>

<th>#ID</th>

<th>Product Name</th>

<th>SKU</th>

<th>Price</th>

<th>Action</th>

</tr>

</thead>

<tbody>

{products.map(product => (

<tr key={product.id}>

<td>{product.id}</td>

<td>{product.product\_name}</td>

<td>{product.sku}</td>

<td>{product.price}</td>

<td>

<Button variant="info" onClick={() => this.props.editProduct(product.id)} >Edit</Button>&nbsp;

<Button variant="danger" onClick={() => this.deleteProduct(product.id)} >remove</Button>

</td>

</tr>

))}

</tbody>

</Table>

</div>

);

}

}

}

export default ProductList;

**ProductList.js**

import React from "react";

import { Table, Button,Alert } from "react-bootstrap";

class ProductList extends React.Component {

constructor(props) {

super(props);

this.state = {

error: null,

products: []

};

}

componentDidMount() {

const apiUrl = "http://localhost/curdapi/getallprodouctsapi.php";

fetch(apiUrl)

.then(res => res.json())

.then(

result => {

this.setState({

products: result

});

},

error => {

this.setState({ error });

}

);

}

deleteProduct=productId=>{

console.log(productId);

const apiUrl="http://localhost/curdapi/deleteprodouctapi.php";

const formData=new FormData();

formData.append("id",productId);

const options={

method:"POST",

body:formData

}

//first collect all products state data

const {products}=this.state;

fetch(apiUrl,options).then(res=>res.json()).then((result)=>{

this.setState({

isDeletedProduct:true,

pid:productId,

isAddProduct: false,

//update new array of products by filter remove state product equal to deleted product id

products:products.filter(product=>product.id!==productId)

})

})

}

render() {

const { error, products } = this.state;

if (error) {

return <div>Error: {error.message}</div>;

} else {

return (

<div>

{this.state.isDeletedProduct && <Alert variant="info">Successfully product deleted {this.state.pid}</Alert>}

<h2>Product List</h2>

<Table>

<thead>

<tr>

<th>#ID</th>

<th>Product Name</th>

<th>SKU</th>

<th>Price</th>

<th>Action</th>

</tr>

</thead>

<tbody>

{products.map(product => (

<tr key={product.id}>

<td>{product.id}</td>

<td>{product.product\_name}</td>

<td>{product.sku}</td>

<td>{product.price}</td>

<td>

<Button

variant="info"

onClick={() => this.props.editProduct(product.id)}

>

Edit

</Button>&nbsp;

<Button

variant="danger"

onClick={() => this.deleteProduct(product.id)}

>

remove

</Button>

</td>

</tr>

))}

</tbody>

</Table>

</div>

);

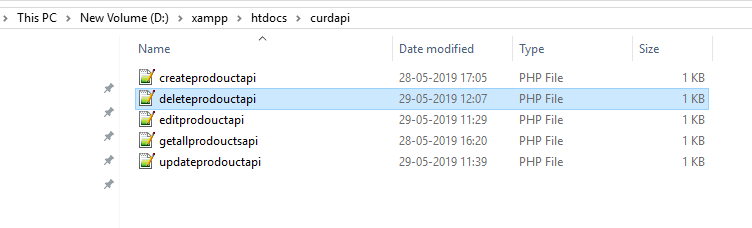
}

}

}

export default ProductList;

**APIS**

****

**Createprodouctapi.php**

<?php

header("Access-Control-Allow-Origin: \*");

header("Access-Control-Request-Headers: GET,POST,OPTIONS,DELETE,PUT");

$servername = "localhost";

$username = "root";

$password = "";

$mysqli = new mysqli('localhost','root','','reactcurd');

// Takes raw data from the request

$json = file\_get\_contents('php://input');

// Converts it into a PHP object

$data = json\_decode($json);

$sql = "INSERT INTO products (product\_name, price, sku) VALUES ('$data->productName', '$data->price', '$data->sku')";

if (mysqli\_query($mysqli, $sql)) {

$response = array(

'status' => 'success',

'message' => 'Product added successfully'

);

} else {

$response = array(

'status' => 'error'

);

}

$mysqli->close();

      header("Content-type:application/json");

      echo json\_encode($response);

?>

**Deleteprodouctapi.php**

<?php

header("Access-Control-Allow-Origin: \*");

header("Access-Control-Request-Headers: GET,POST,OPTIONS,DELETE,PUT");

$servername = "localhost";

$username = "root";

$password = "";

$mysqli = new mysqli('localhost','root','','reactcurd');

// Converts it into a PHP object

$id = $\_REQUEST['id'];

$sql = "delete from products where id='$id' ";

if (mysqli\_query($mysqli, $sql)) {

$response = array(

'status' => 'success',

'message' => 'Product successfully deleted'

);

} else {

$response = array(

'status' => 'error'

);

}

$mysqli->close();

      header("Content-type:application/json");

      echo json\_encode($response);

?>

**Editprodouctapi.php**

<?php

header("Access-Control-Allow-Origin: \*");

header("Access-Control-Request-Headers: GET,POST,OPTIONS,DELETE,PUT");

$servername = "localhost";

$username = "root";

$password = "";

$productId=$\_REQUEST['productId'];

$mysqli = new mysqli('localhost','root','','reactcurd');

$myArray = array();

if ($result = $mysqli->query("SELECT \* FROM products where id='$productId'")) {

$row = $result->fetch\_object();

    $productData = array(

'id' => $row->id,

'productName' => $row->product\_name,

'price' => $row->price,

'sku' => $row->sku

);

echo json\_encode($productData);

}

$result->close();

$mysqli->close();

?>

**Getallprodouctsapi.php**

<?php

header("Access-Control-Allow-Origin: \*");

header("Access-Control-Request-Headers: GET,POST,OPTIONS,DELETE,PUT");

$servername = "localhost";

$username = "root";

$password = "";

$mysqli = new mysqli('localhost','root','','reactcurd');

$myArray = array();

if ($result = $mysqli->query("SELECT \* FROM products")) {

$tempArray = array();

while($row = $result->fetch\_object()) {

$tempArray = $row;

array\_push($myArray, $tempArray);

}

echo json\_encode($myArray);

}

$result->close();

$mysqli->close();

?>

**Updateprodouctapi.php**

<?php

header("Access-Control-Allow-Origin: \*");

header("Access-Control-Request-Headers: GET,POST,OPTIONS,DELETE,PUT");

$servername = "localhost";

$username = "root";

$password = "";

$mysqli = new mysqli('localhost','root','','reactcurd');

// Takes raw data from the request

$json = file\_get\_contents('php://input');

// Converts it into a PHP object

$data = json\_decode($json);

$sql = "update products set product\_name='$data->productName', price='$data->price', sku='$data->sku' where id='$data->id' ";

if (mysqli\_query($mysqli, $sql)) {

$response = array(

'status' => 'success',

'message' => 'Product successfully updated'

);

} else {

$response = array(

'status' => 'error'

);

}

$mysqli->close();

      header("Content-type:application/json");

      echo json\_encode($response);

?>

**Data**

CREATE TABLE `products` (

`id` int(10) UNSIGNED NOT NULL,

`product\_name` varchar(255) CHARACTER SET latin1 DEFAULT NULL,

`sku` varchar(50) CHARACTER SET latin1 DEFAULT NULL,

`price` decimal(8,2) NOT NULL,

`is\_active` tinyint(1) NOT NULL,

`created\_at` datetime NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

INSERT INTO `products` (`id`, `product\_name`, `sku`, `price`, `is\_active`, `created\_at`) VALUES

(1, 'Mobile', 'mobile', '6000.00', 1, '2019-02-21 08:46:48'),

(2, 'Laptop', 'laptop', '30000.00', 1, '2019-02-21 08:59:56'),

(3, 'LED Bulb', 'led-bulb', '150.00', 1, '2019-02-21 09:59:56'),

(4, 'TV', 'tv', '20000.00', 1, '2019-02-21 10:59:56'),

(5, 'Mouse', 'mouse', '250.00', 1, '2019-02-21 11:59:56');

ALTER TABLE `products`

ADD PRIMARY KEY (`id`);

ALTER TABLE `products`

MODIFY `id` int(10) UNSIGNED NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=6;