

React js with PHP REST API :-

STEP 1:- Create database react_crud and inside it create table users

Sql command to create table users as shown below :-

```
create table users
```

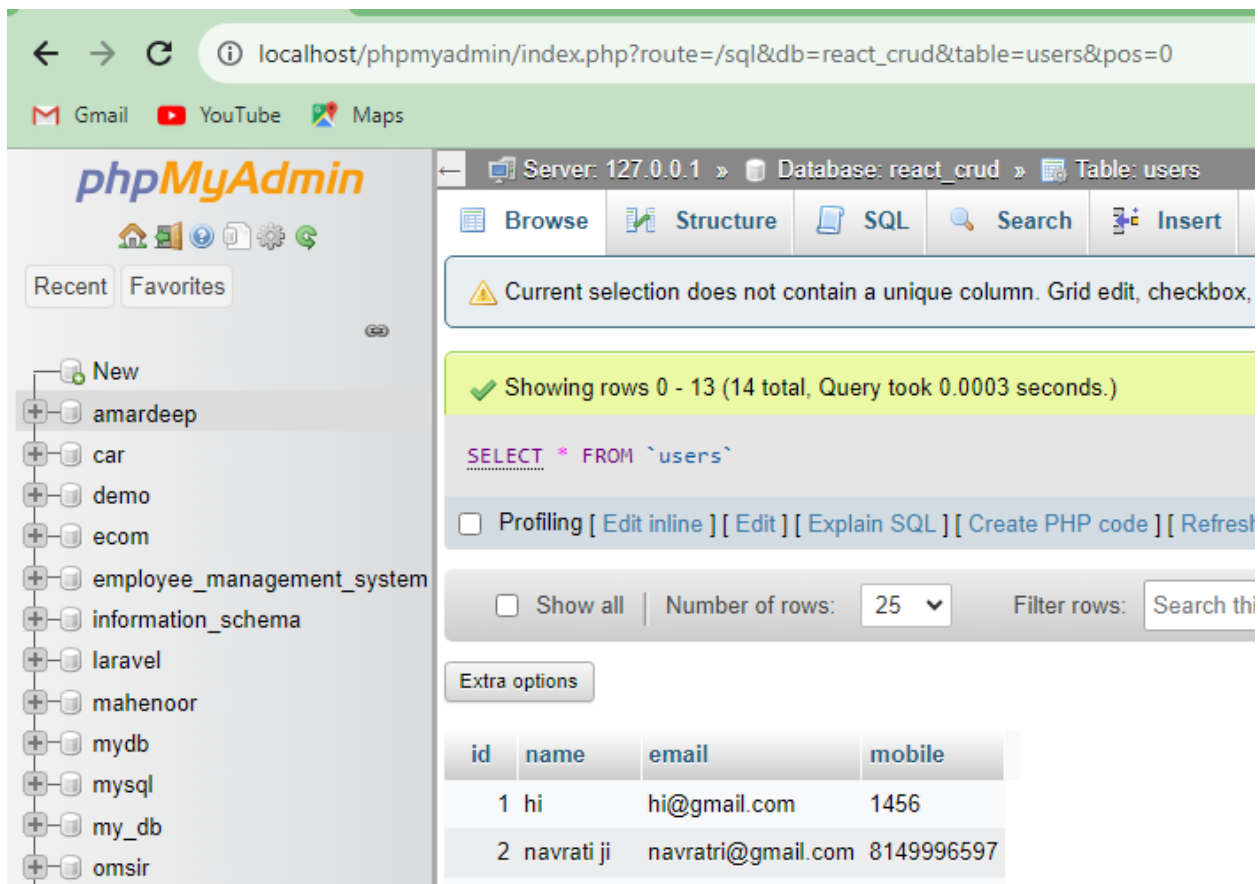
```
(id int primary key auto_increment,
```

```
name varchar(200),
```

```
email varchar(200),
```

```
mobile varchar(200)
```

```
);
```



The screenshot shows the phpMyAdmin interface for a database named 'react_crud' and a table named 'users'. The table structure is defined with columns: id (int, primary key, auto-increment), name (varchar(200)), email (varchar(200)), and mobile (varchar(200)). The table contains 14 rows of data. The SQL query shown is 'SELECT * FROM `users`'. The interface also displays a warning message: 'Current selection does not contain a unique column. Grid edit, checkbox, ...'.

id	name	email	mobile
1	hi	hi@gmail.com	1456
2	navrati ji	navrati@gmail.com	8149996597

Step 2:- in your xampp/htdocs folder create folder react and inside it create folder api and save all following rest api php files under it.

This PC > Local Disk (C:) > xampp > htdocs > react > api

Name	Date modified
DbConnect	9/28/2023 2:
delete	10/14/2023 :
details	10/14/2023 :
detailstest	10/14/2023 4
finalupdate	10/12/2023 4
finalupdate1	10/12/2023 4
index	9/30/2023 3:
read	9/29/2023 4:
read1	9/30/2023 2:
save	9/29/2023 3:
saveupdate	9/30/2023 5:
test	9/30/2023 3:
update	10/14/2023 :

Write code for read.php file :-

```
<?php
```

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

```
header('Access-Control-Allow-Credentials: true');
```

```
header("Access-Control-Allow-Methods: PUT, GET, POST, DELETE");
```

```
header("Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept");
```

```
header("Content-Type: application/json; charset=UTF-8");
```

```
$conn = mysqli_connect("localhost", "root", "", "react_crud");
```

```
$output = array();
```

```
$query = "SELECT * FROM users";
```

```
$result = mysqli_query($conn, $query);
```

```
if (mysqli_num_rows($result) > 0) {
```

```
while ($row = mysqli_fetch_array($result)) {
```

```
$users[] = $row;
```

```
}
```

```
echo json_encode($users);
```

```
}
```

```
?>
```

2)save.php file code:-

```
<?php
```

```
error_reporting(E_ALL);
```

```
ini_set('display_errors', 1);
```

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

```
header("Access-Control-Allow-Headers: *");
```

```
header("Access-Control-Allow-Methods: *");
```

```
$user = json_decode( file_get_contents('php://input') );
```

```
echo json_encode($response);
```

```
$conn=mysqli_connect("localhost","root","","react_crud");

$name = mysqli_real_escape_string($conn, $user->name);
$email = mysqli_real_escape_string($conn, $user->email);
$mobile = mysqli_real_escape_string($conn, $user->mobile);

$sql="insert into users (name,email,mobile)values('$name','$email','$mobile)";
$result=mysqli_query($conn, $sql);

if($result)
{
    $res="record inserted";
    echo json_encode($res);
}

?>
```

3)detailstest.php file code:-

```
<?php
error_reporting(E_ALL);
ini_set('display_errors',1);
header("Access-Control-Allow-Origin:* ");
```

```
header("Access-Control-Allow-Headers: *");
header("Access-Control-Allow-Methods: *");

$db_conn= mysqli_connect("localhost","root","", "react_crud");

if($db_conn===false)
{
    die("ERROR: Could Not Connect".mysqli_connect_error());
}

$method = $_SERVER['REQUEST_METHOD'];
//echo "test----".$method; die;
switch($method)
{
    case "GET":
        $path= explode('/', $_SERVER['REQUEST_URI']);

        if(isset($path[4]) && is_numeric($path[4]))
        {
            $json_array= array();
            $userid= $path[4];

            $getuserrow= mysqli_query($db_conn, "SELECT * FROM users WHERE id='$userid' ");

            while($userrow= mysqli_fetch_array($getuserrow))
```

```
{
    $json_array['rowUserdata']= array('id'=>$userrow['id'],'name'=>$userrow['name'],
'email'=>$userrow['email'],'mobile'=>$userrow['mobile'],);
}
echo json_encode($json_array['rowUserdata']);
return;
}

break;

}
?>
```

4)update.php file code:-

```
<?php
error_reporting(E_ALL);
ini_set('display_errors', 1);
header("Access-Control-Allow-Origin: *");
header("Access-Control-Allow-Headers: *");
header("Access-Control-Allow-Methods: *");

$user = json_decode( file_get_contents('php://input') );

echo json_encode($response);
```

```
$conn=mysqli_connect("localhost","root","","react_crud");

$id = mysqli_real_escape_string($conn, $user->id);
$name = mysqli_real_escape_string($conn, $user->name);
$email = mysqli_real_escape_string($conn, $user->email);
$mobile = mysqli_real_escape_string($conn, $user->mobile);

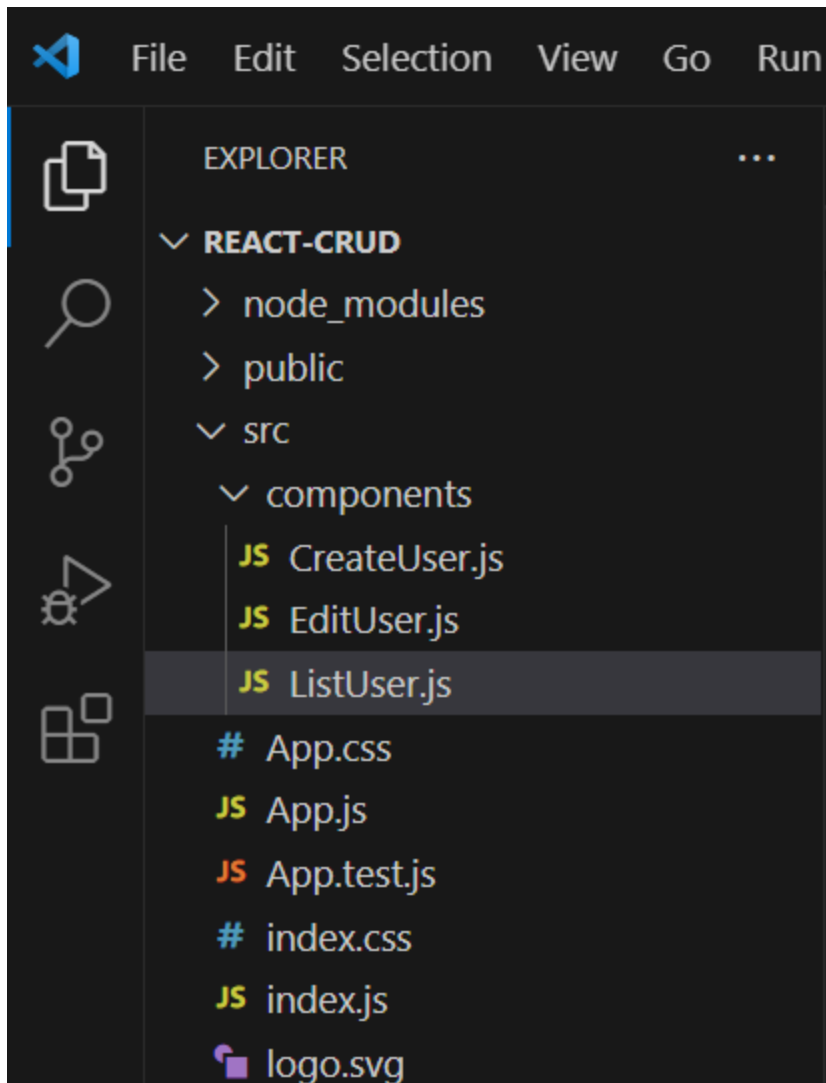
$sql="update users set name='$name', email='$email',mobile='$mobile' where id='$id'";

$result=mysqli_query($conn, $sql);

if($result)
{
    $res="record updated succesfully ";
    echo json_encode($res);
    alert($res);
}

?>
```

Now React Front End side code:-



Write code for `App.js` file code:-

```
import {BrowserRouter, Routes, Route, Link} from 'react-router-dom';
import './App.css';
import CreateUser from './components/CreateUser';
import EditUser from './components/EditUser';
import ListUser from './components/ListUser';

function App() {
  return (
    <>
    <div className="App">
      <h5>React CRUD operations using PHP API and MySQL</h5>

      <BrowserRouter>
        <nav>
```

```

    <ul>
      <li>
        <Link to="/">List Users</Link>
      </li>
      <li>
        <Link to="user/create">Create User</Link>
      </li>
    </ul>
  </nav>
  <Routes>
    <Route index element={<ListUser />} />
    <Route path="user/create" element={<CreateUser />} />
    <Route path="user/:id/edit" element={<EditUser />} />
  </Routes>
</BrowserRouter>
</div>
</>
);
}

export default App;

```

Write code for ListUser.js file :-

```

import axios from "axios"
import { useEffect, useState } from "react";
import { Link } from "react-router-dom";

export default function ListUser() {

  const [users, setUsers] = useState([]);
  useEffect(() => {
    getUsers();
  }, []);

  function getUsers() {
    axios.get('http://localhost/react/api/read.php').then(function(response)
    {
      console.log(response.data);
      setUsers(response.data);
    });
  }
}

```

```

const deleteUser = (id) => {
  axios.delete("http://localhost/react/api/delete.php/"+id).then(function(response){
    console.log(response.data);
    getUsers();
  });
}
return (
  <div>
    <h1>List Users</h1>
    <table>
      <thead>
        <tr>
          <th>#</th>
          <th>Name</th>
          <th>Email</th>
          <th>Mobile</th>
          <th>Actions</th>
        </tr>
      </thead>
      <tbody>
        {users.map((user, key) =>
          <tr key={key}>
            <td>{user.id}</td>
            <td>{user.name}</td>
            <td>{user.email}</td>
            <td>{user.mobile}</td>
            <td>
              <Link to={`user/${user.id}/edit`}
style={{marginRight: "10px"}}>Edit</Link>
              <button onClick={() =>
deleteUser(user.id)}>Delete</button>
              <button onClick={()=>alert("button
clicked")}>test</button>
            </td>
          </tr>
        )}
      </tbody>
    </table>
  </div>
)
}

```

Now write code for Createuser.js file code:-

```
import { useState } from "react";
import axios from "axios";
import { useNavigate } from "react-router-dom";

export default function ListUser() {
  const navigate = useNavigate();

  const [inputs, setInputs] = useState([]);

  const handleChange = (event) => {
    const name = event.target.name;
    const value = event.target.value;
    setInputs(values => ({...values, [name]: value}));
  }

  const handleSubmit = (event) => {
    event.preventDefault();

    axios.post('http://localhost/react/api/save.php',
inputs).then(function(response){
    console.log(response.data);
    navigate('/');
  });

  }

  return (
    <div>
      <h1>Create user</h1>
      <form onSubmit={handleSubmit}>
        <table cellSpacing="10">
          <tbody>
            <tr>
              <th>
                <label>Name: </label>
              </th>
              <td>
                <input type="text" name="name"
onChange={handleChange} />
              </td>
            </tr>
          </tbody>
        </table>
      </form>
    </div>
  )
}
```

```

        <th>
            <label>Email: </label>
        </th>
        <td>
            <input type="text" name="email"
onChange={handleChange} />
        </td>
    </tr>
    <tr>
        <th>
            <label>Mobile: </label>
        </th>
        <td>
            <input type="text" name="mobile"
onChange={handleChange} />
        </td>
    </tr>
    <tr>
        <td colspan="2" align="right">
            <button>Save</button>
        </td>
    </tr>
</tbody>
</table>
</form>
</div>
)
}

```

Write code for EditUser.js file code:-

```

import { useState, useEffect } from "react";
import React from "react";

import axios from "axios";
import { useNavigate, useParams } from "react-router-dom";

export default function ListUser() {
    const navigate = useNavigate();

```

```

const [inputs, setInputs] = useState([]);

const {id} = useParams();

useEffect(() => {
  getUser();
}, []);

function getUser() {
  axios.get(`http://localhost/react/api/detailstest.php/${id}`).then(function(response) {

    console.log(response.data);

    setInputs(response.data);

  });
}

const handleChange = (event) => {
  const name = event.target.name;
  const value = event.target.value;
  setInputs(values => ({...values, [name]: value}));
}

const handleSubmit = (event) => {
  event.preventDefault();

  axios.put(`http://localhost/react/api/update.php/`,
inputs).then(function(response){
  console.log(response.data);
  navigate('/');
});
}

return (
  <>

  <div>
    <h1>Edit user</h1>

    <form onSubmit={handleSubmit}>
      <table cellSpacing="10">

```

```
        <tbody>
          <tr>
            <th>
              <label>id: </label>
            </th>
            <td>
              <input value={inputs.id} type="text" name="id"
onChange={handleChange} />
            </td>
            <th>
              <label>Name: </label>
            </th>
            <td>
              <input value={inputs.name} type="text"
name="name" onChange={handleChange} />
            </td>
          </tr>
          <tr>
            <th>
              <label>Email: </label>
            </th>
            <td>
              <input value={inputs.email} type="text"
name="email" onChange={handleChange} />
            </td>
          </tr>
          <tr>
            <th>
              <label>Mobile: </label>
            </th>
            <td>
              <input value={inputs.mobile} type="text"
name="mobile" onChange={handleChange} />
            </td>
          </tr>
          <tr>
            <td colspan="2" align="right">
              <button>Save</button>
            </td>
          </tr>
        </tbody>
      </table>
    </form>
```

```
</div>
```

```
<div>
```

```
</div>
```

```
</>
```

```
)
```

```
}
```