

L1 – React Js ASSESSMENT

Name: Vidhusha Sri Virumandi Sivakumar

Employee ID: 12216

Q10) Ration card Management System

- It is a software solution which aims to streamline the process of managing the ration card system and overcome the challenges faced by beneficiaries, such as applying for new ration cards, tracking the application status, duplicate ration card and so on.

RATION CARD MANAGEMENT SYSTEM	
WHAT?	HOW?
<p>1) What are the modules?</p> <ul style="list-style-type: none">• Card User• Admin• Ration Stocks <p>2) What are the functionalities of those modules?</p> <ul style="list-style-type: none">• Card User Can Add their details and view Ration stocks• Admin Can Add, delete, update and View of Users and Ration Stocks• Ration Stocks Ration Stock details are updated, added, deleted by admin and viewed by users <p>3) What are the fields required for those functionalities?</p> <ul style="list-style-type: none">• Card user: Id, UserName, Adhaar number, address, family member count, age• Admin Id, AdminName, phone number, locality, Shift• Ration Stock Id,stockName,Provider ,initial quantity, QuantityRemain, refill date, stocked date	<p>1)How can User add their details?</p> <p>Method1: by registering their Name, Adhaar number, address, family member count, age</p> <p>Method2: by registering their Name, Adhaar number, address</p> <p>2)How can admin login?</p> <p>Method1: by providing their Name& PhoneNumber</p> <p>Method2: by providing their id & locality</p> <p>3)How can an admin view, update and delete users?</p> <p>Method1: by using user's ID & Adhaar number</p> <p>Method2: by using user's address</p> <p>Method3: by using user's Adhaar number</p> <p>4) How can an admin add Ration stock?</p> <p>Method1: stockName,Provider, Stocked date, next Refill date</p> <p>Method2: stockName,Quantity</p> <p>Method 3: stockName,Provider, initialQuantity,QuantityRemain , Stocked date, refill date</p> <p>5)How can an admin view, update and delete stocks?</p> <p>Method1: by using Stock's ID</p> <p>Method2: by using Stock's name</p>

WHY?	WHY NOT?

User can add their details by **Method1:** by registering their Name, Adhaar number, address, family member count, age which is feasible because every citizen has unique Adhaar number

Admin can login application by using Method2: by providing their id & locality which makes admin login multiple times efficiently.

Admin can view, update and delete users by Method1: by using user's ID & Adhaar number Because every user has unique ID and Adhaar number, to cross check the details are right before CRUD, we provide ID& Adhaar number.

Admin can add Ration stock by using Method1: stockName,Provider, stocked date, next Refill date so that it will be easy for him to identify stock provided and if any discrepancies occur.

Admin can view, update and delete stocks by using Method1: by using Stock's ID because performing CRUD will be easier when it comes to performing CRUD to multiple stocks.

When a user registers their selves using **Method2:** registering their Name, Adhaar number, address without age & family member count will not be feasible, since ration card is about entire family.

Admins may have unique phone numbers but not the name. So Method1: providing their Name & Phone Number is not feasible for admin login .

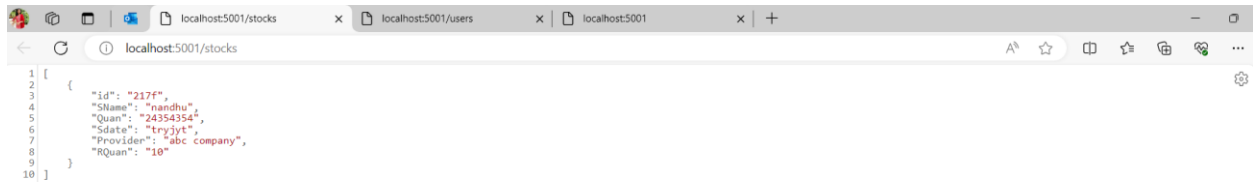
When an admin performs CRUD operation for multiple users **Method2&Method3** will not be feasible.

Method2&Method3 will not be feasible to admin who adds

Method2 is not feasible when an admin performs CRUD for multiple stocks.

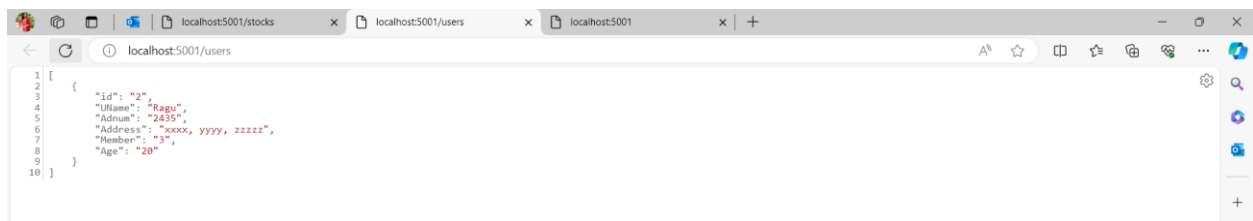
Server Creation:

Server for Stocks data:



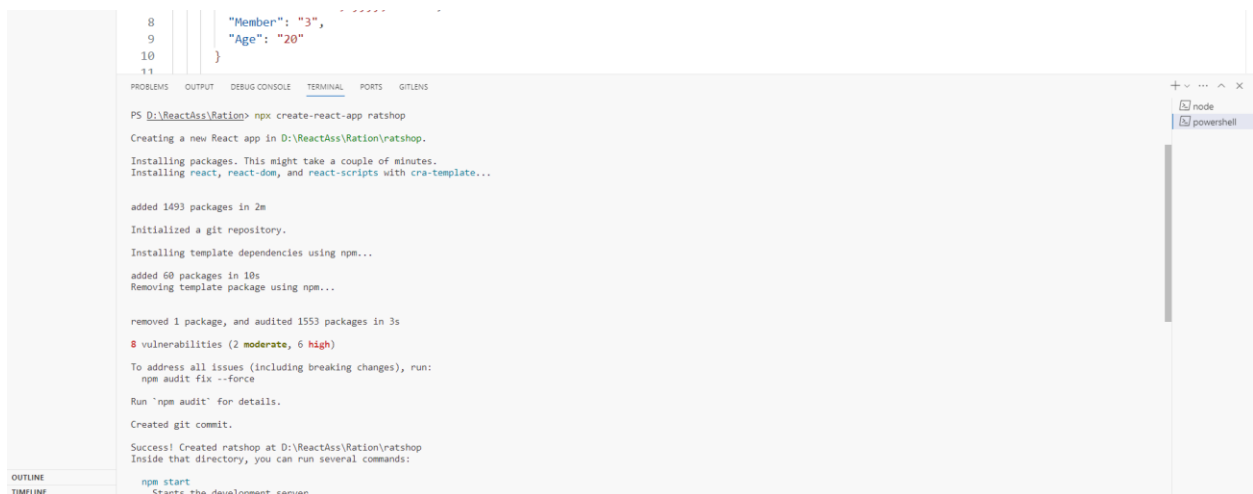
```
1 [
2   {
3     "id": "217f",
4     "SName": "nandhu",
5     "Quan": "24354354",
6     "Sdate": "tryjyt",
7     "Provider": "abc company",
8     "RQuan": "10"
9   }
10 ]
```

Server for Users data:



```
1 [
2   {
3     "id": "2",
4     "UName": "Ragu",
5     "Adnum": "2435",
6     "Address": "xxxx, yyyy, zzzzz",
7     "Member": "3",
8     "Age": "20"
9   }
10 ]
```

Building application:



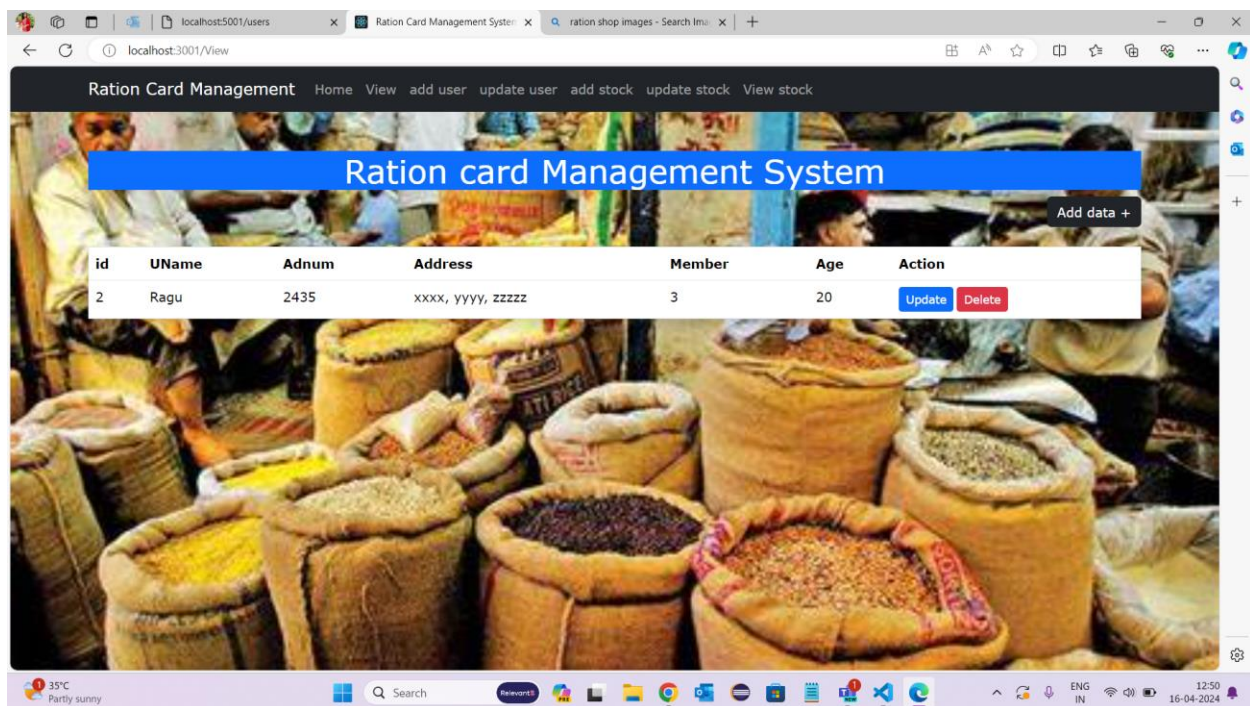
```
8 |         "Member": "3",
9 |         "Age": "20"
10 |     }
11 | }
12 |
13 |
14 |
15 |
16 |
17 |
18 |
19 |
20 |
21 |
22 |
23 |
24 |
25 |
26 |
27 |
28 |
29 |
30 |
31 |
32 |
33 |
34 |
35 |
36 |
37 |
38 |
39 |
40 |
41 |
42 |
43 |
44 |
45 |
46 |
47 |
48 |
49 |
50 |
51 |
52 |
53 |
54 |
55 |
56 |
57 |
58 |
59 |
60 |
61 |
62 |
63 |
64 |
65 |
66 |
67 |
68 |
69 |
70 |
71 |
72 |
73 |
74 |
75 |
76 |
77 |
78 |
79 |
80 |
81 |
82 |
83 |
84 |
85 |
86 |
87 |
88 |
89 |
90 |
91 |
92 |
93 |
94 |
95 |
96 |
97 |
98 |
99 |
100 |
```

Installing necessary packages :



```
19 | e.preventDefault();
20 | let result = validateValues(inputData);
21 |
22 |
23 |
24 |
25 |
26 |
27 |
28 |
29 |
30 |
31 |
32 |
33 |
34 |
35 |
36 |
37 |
38 |
39 |
40 |
41 |
42 |
43 |
44 |
45 |
46 |
47 |
48 |
49 |
50 |
51 |
52 |
53 |
54 |
55 |
56 |
57 |
58 |
59 |
60 |
61 |
62 |
63 |
64 |
65 |
66 |
67 |
68 |
69 |
70 |
71 |
72 |
73 |
74 |
75 |
76 |
77 |
78 |
79 |
80 |
81 |
82 |
83 |
84 |
85 |
86 |
87 |
88 |
89 |
90 |
91 |
92 |
93 |
94 |
95 |
96 |
97 |
98 |
99 |
100 |
```

Output:



localhost:5001/users

localhost:5001/users

Ration Card Management System

localhost:3001/createS

localhost:3001 says
Data added Successfully

Ration Card Management Home View add

Add STOCK's Data

Stock Name
bread

Quan :
2

Stocked Date
24-04-2024

Provider Name :
xxxxx

Remaining stock Quantity
3

Submit

35°C Partly sunny

Search

12:53 16-04-2024

```
localhost:5001/users x Ration Card Management System x
localhost:5001/stocks
[
  {
    "id": "217f",
    "SName": "nandhu",
    "Quan": "24354354",
    "Sdate": "tryjyt",
    "Provider": "abc company",
    "RQuan": "10"
  },
  {
    "id": "7238",
    "Name": "",
    "Mobile": "",
    "City": "",
    "SName": "bread",
    "Quan": "2",
    "Sdate": "2024-04-24",
    "Provider": "xxxxx",
    "RQuan": "3"
  }
]
```

localhost:5001/users x Ration Card Management System x ration shop images - Search Imu x +

localhost:3001/create

Ration Card Management Home View add user update user add stock update stock View stock

ADD USERS DATA

User's Name

User's Adhaar Number :

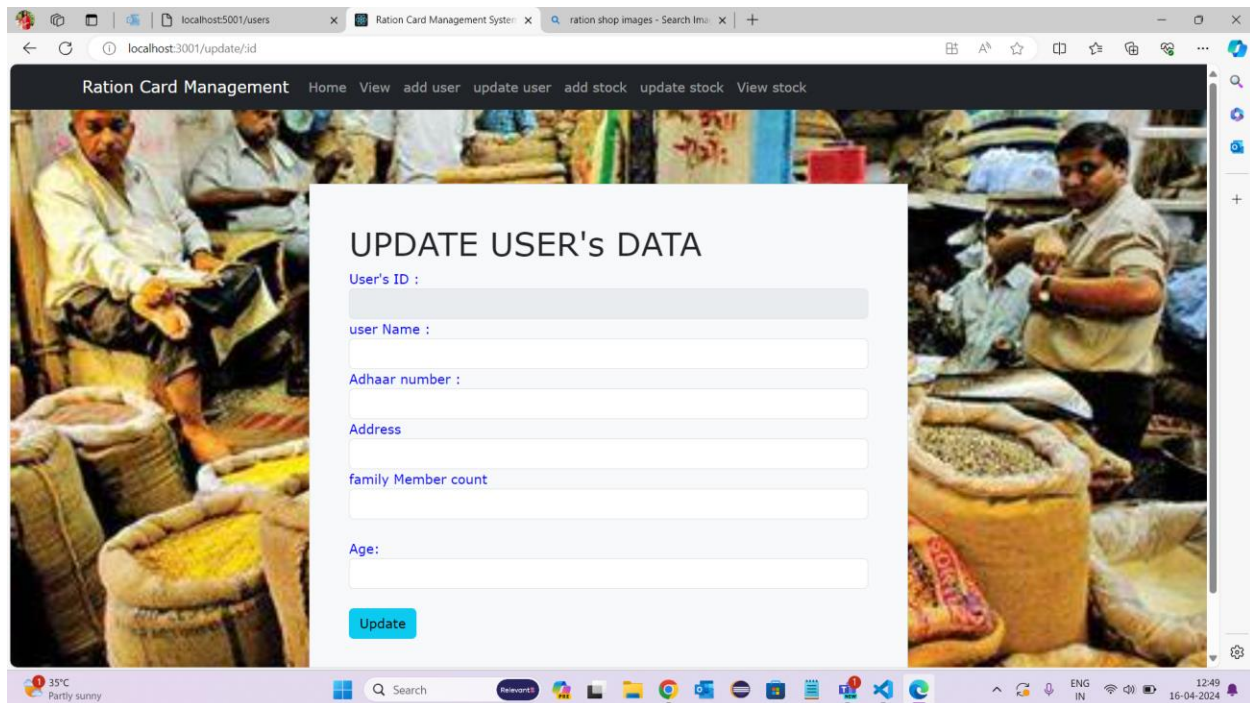
Enter Address

Member Count

Age:

Submit

35°C Partly sunny Search Microsoft Edge 12:49 16-04-2024



Add Stock code:

```
import React from 'react'
import axios from 'axios'
import { useState } from "react";
import { useNavigate } from "react-router-dom";
function AddS() {
  const [inputData, setInputData] = useState({
    Name: "",
    Mobile: "",
    City: "",
  });
  const naviget = useNavigate();

  let handleSubmit = (e) => {
    e.preventDefault();
    let result = validateValues(inputData);
    // setSubmitting(true);

    if (result === true) {
```



```

    axios
      .post("http://localhost:5001/stocks", inputData)
      .then((res) => {
        alert("Data added Successfully");
        naviget("/");
        console.log(res.data);
      })
      .catch((err) => console.log(err));
  } else {
    alert("Please Enter the Valid Inputs!!!");
  }
};

const validateValues = (inputData) => {
  if (inputData.SName.length === 0) {
    alert("Please enter stock name !!! ");
    return false;
  } else if (inputData.Quan.length === 0) {
    alert(" enter Initial Qunatity provided !");
    return false;
  } else if (inputData.Sdate.length === 0) {
    alert("Please enter Stocked date!");
    return false;
  } else if (inputData.RQuan.length === 0) {
    alert("Please Enter Remaining Quantity !");
    return false;
  } else {
    return true;
  }
};

return (
  <div
    id="add2"
    className="d-flex w-100 vh-100 justify-content-center
align-items-center "
  >

```



```

        placeholder="Enter stocked date"
        onChange={(e) =>
            setInputData({ ...inputData, Sdate:
e.target.value })
        }
    />
</div>

<div>
    <label htmlFor="Provider">Provider Name :</label>
    <input
        type="text"
        name="provider"
        className="form-control"
        placeholder="Enter stock provider"
        onChange={(e) =>
            setInputData({ ...inputData, Provider:
e.target.value })
        }
    />
</div>
<div>
    <label htmlFor="qualification"> Remaining stock
Quantity</label>
    <input
        type="number"
        name="number"
        className="form-control"
        placeholder="Enter remianing quantity in
Litres/Grams/kgs"
        onChange={(e) =>
            setInputData({ ...inputData, RQuan:
e.target.value })
        }
    />
</div>

```

```

        <br />

        <button id="value" className="btn btn-info
">Submit</button>
    </form>

</div>
</div>
);
}

export default AddS

```

Code for add users:

```

import axios from "axios";
import React from "react";
import { useState } from "react";
import { useNavigate } from "react-router-dom";
import "../App2.css";

function Add() {
    const [inputData, setInputData] = useState({
        UName: "",
        Adnum: "",
        Address: "",
        Member: "",
        Age: "",
    });

    const naviget = useNavigate();

    let handleSubmit = (e) => {
        e.preventDefault();
    }

```

```

let result = validateValues(inputData);
// setSubmitting(true);

if (result === true) {
  axios
    .post("http://localhost:5001/users/", inputData)
    .then((res) => {
      alert("Data added Successfully");
      naviget("/");
      console.log(res.data);
    })
    .catch((err) => console.log(err));
} else {
  alert("Please Enter the Valid Inputs!!!");
}
};

// validation Part for add user for student management system
// const [errors, setErrors] = useState({});
// const [submitting, setSubmitting] = useState(false);

const validateValues = (inputData) => {
  if (inputData.UName.length === 0) {
    alert("enter User's Name !!! ");
    return false;
  }
  else if (inputData.Adnum.length < 10) {
    alert("enter valid adhaar number");
    return false;
  }
  else if (inputData.Address.length === 0) {
    alert("enter address");
    return false;
  }
  else if (inputData.Consultant.length === 0) {
    alert("Please enter family member count");
    return false;
  }
  else if (inputData.Age.length === 0) {
    alert("Please Enter your age");
  }
}

```



```

        return false;
    }
    else {
        return true;
    }
};

return (
    <div
        id="add2"
        className="d-flex w-100 vh-100 justify-content-center
align-items-center "
    >
        <div className="w-50 border bg-light p-5">
            <form onSubmit={handleSubmit}>
                <h1>ADD USERS DATA</h1>
                <div>
                    <lable htmlFor="name">User's Name</lable>
                    <input
                        type="text"
                        name="name"
                        className="form-control"
                        onChange={(e) =>
                            setInputData({ ...inputData, UName:
e.target.value })
                    }
                />
                </div>
                <div>
                    <lable htmlFor="Mobile">User's Adhaar
Number :</lable>
                    <input
                        type="number"
                        name="mobile"
                        className="form-control"
                        onChange={(e) =>

```

```

        setInputData({ ...inputData, Adnum:
e.target.value })
    }
    />
</div>

<div>
    <label htmlFor="city">Enter Address</label>
    <input
        type="text"
        name="city"
        className="form-control"
        onChange={(e) =>
            setInputData({ ...inputData, Address:
e.target.value })
        }
    />
</div>

<div>
    <label htmlFor="pincode"> Member Count</label>
    <input
        type="number"
        name="pincode"
        className="form-control"
        onChange={(e) =>
            setInputData({ ...inputData, Member:
e.target.value })
        }
    />
</div>
<br />

<div>
    <label htmlFor="age"> Age:</label>
    <input

```

```

        type="number"
        name="Age"
        className="form-control"
        onChange={(e) =>
            setInputData({ ...inputData, Age:
e.target.value })
        }
    />
</div>
<br />

    <button className="btn btn-info ">Submit</button>
</form>

</div>
</div>
);
}

```

```
export default Add;
```

View js code:

```

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Link, useNavigate } from "react-router-dom";
import * as ReactDOM from "react-dom/client";
import "../App2.css";

function View() {
    const [columns, setColumns] = useState([]);
    const [records, setRecords] = useState([]);
    const navigate = useNavigate();

```

```

useEffect(() => {
  axios
    .get("http://localhost:5001/users/")
    .then((response) => {
      setColumns(Object.keys(response.data[0]));
      setRecords(response.data);
    })
    .catch((err) => {
      console.log(err);
    });
}, []);

let handleSubmit = (id) => {
  const conf = window.confirm("Do you want to delete");
  if (conf) {
    axios
      .delete("http://localhost:5000/users/" + id)
      .then((res) => {
        alert("record has deleted");
        navigate("/");
        window.location.reload();
      })
      .catch((err) => console.log(err));
  }
};

return (
  <div id="body">
    <br/>
    <div class="container">

      <h1 id="headingMain" className="text-center text-bg-
primary ">
        Ration card Management System
      </h1>

```

```

<div className="text-end">
  <Link to="/create" className="btn btn-dark">
    Add data +
  </Link>
</div>
<br />
<table className="table table-hover table- w-100 border
bg-white shadow px-5 pb-5 rounded ">
  <thead>
    <tr>
      {columns.map((c, i) => (
        <th key={i}>{c}</th>
      ))}
      <th>Action</th>
    </tr>
  </thead>

  <tbody>
    {records.map((d, i) => (
      <tr key={i}>
        <td>{d.id}</td>
        <td>{d.UName}</td>
        <td>{d.Adnum}</td>
        <td>{d.Address}</td>
        <td>{d.Member}</td>
        <td>{d.Age}</td>
        <td>
          <Link
            to={` /update/${d.id}`}
            className="btn btn-sm btn-primary "
          >
            Update
          </Link>
          <button
            onClick={(e) => handleSubmit(d.id)}

```



```

                className="btn btn-sm ms-1 btn-danger"
            >
                Delete
            </button>
        </td>
    </tr>
    </tbody>
</table>
</div>
</div>
);
}

```

```
export default View;
```

```

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Link, useNavigate } from "react-router-dom";
import * as ReactDOM from "react-dom/client";
import "./App2.css";

```

```

function Viewstocks() {
    const [columns, setColumns] = useState([]);
    const [records, setRecords] = useState([]);
    const navigate = useNavigate();

    useEffect(() => {
        axios
            .get("http://localhost:5000/stocks/")
            .then((response) => {
                setColumns(Object.keys(response.data[0]));
                setRecords(response.data);
            })
            .catch((err) => {

```

```

        console.log(err);
    });
}, []);

let handleSubmit = (id) => {
    const conf = window.confirm("Do you want to delete");
    if (conf) {
        axios
            .delete("http://localhost:5000/stocks/" + id)
            .then((res) => {
                alert("record has deleted");
                navigate("/");
                window.location.reload();
            })
            .catch((err) => console.log(err));
    }
};

return (
    <div id="body">
        <br/>
        <div class="container">

            <h1 id="headingMain" className="text-center text-bg-
primary ">
                Ration card Management System
            </h1>

            <div className="text-end">
                <Link to="/create" className="btn btn-dark">
                    Add data +
                </Link>
            </div>
            <br />
            <table className="table table-hover table- w-100 border
bg-white shadow px-5 pb-5 rounded ">

```

```

<thead>
  <tr>
    {columns.map((c, i) => (
      <th key={i}>{c}</th>
    ))}
    <th>Action</th>
  </tr>
</thead>

<tbody>
  {records.map((d, i) => (
    <tr key={i}>
      <td>{d.id}</td>
      <td>{d.SName}</td>
      <td>{d.Quan}</td>
      <td>{d.Sdate}</td>
      <td>{d.Provider}</td>
      <td>{d.RQuan}</td>
      <td>
        <Link
          to={` /update/${d.id}`}
          className="btn btn-sm btn-primary "
        >
          Update
        </Link>
        <button
          onClick={(e) => handleSubmit(d.id)}
          className="btn btn-sm ms-1 btn-danger"
        >
          Delete
        </button>
      </td>
    </tr>
  ))}
</tbody>
</table>

```

```

        </div>
    </div>
);
}

export default Viewstocks;

```

Json file:

```

{
  "users": [
    {
      "id": "2",
      "UName": "Ragu",
      "Adnum": "2435",
      "Address": "xxxx, yyyy, zzzzz",
      "Member": "3",
      "Age": "20"
    }
  ],
  "stocks": [
    {
      "id": "217f",
      "SName": "nandhu",
      "Quan": "24354354",
      "Sdate": "tryjyt",
      "Provider": "abc company",
      "RQuan": "10"
    },
    {
      "id": "7238",
      "Name": "",
      "Mobile": "",
      "City": "",
      "SName": "bread",
      "Quan": "2",

```

```
    "Sdate": "2024-04-24",  
    "Provider": "xxxxx",  
    "RQuan": "3"  
  }  
]  
}
```