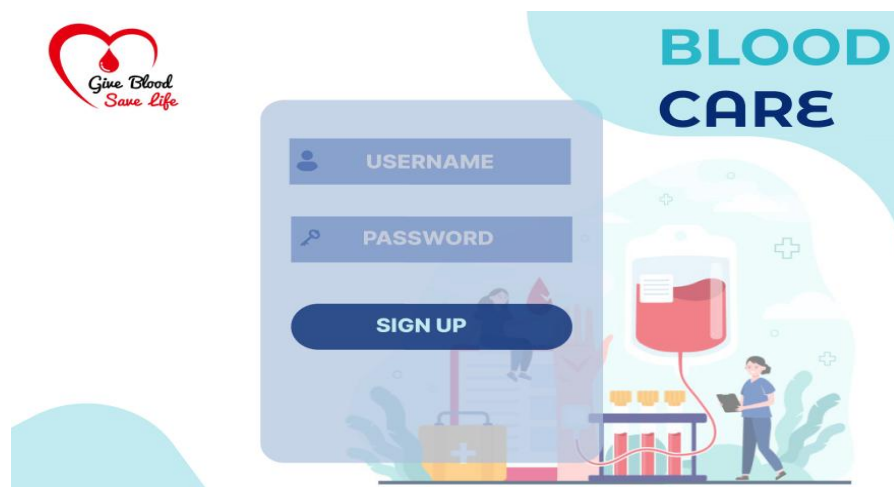
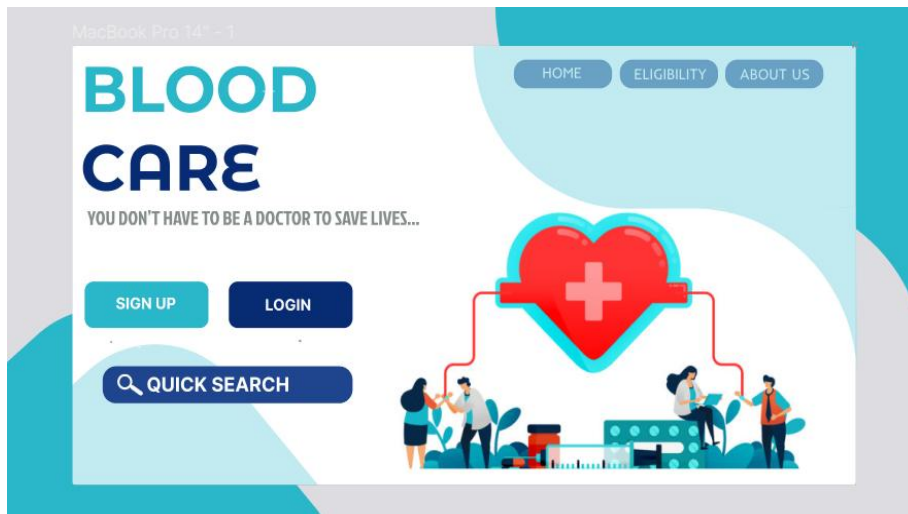


OUTPUT



EXPERIMENT NO:10

DATE:

APPLICATION DEVELOPMENT PROBLEM

AIM:

Develop a Application Program of Personal Information System With MongoDB Backend Database

DATABASE SCHEMA

```
server > models > JS userSchema.js > @ UserSchema
1  const mongoose = require("mongoose");
2  const UserSchema = mongoose.Schema(
3
4    {
5      name: String,
6      email: String,
7      password: String,
8      category: String,
9      bloodgroup: String,
10     location:Object
11   },
12   {
13     timestamps: true,
14     collection: "user",
15   }
16 );
17 module.exports = mongoose.model("User", UserSchema);
18
```

LOGIN WORKING

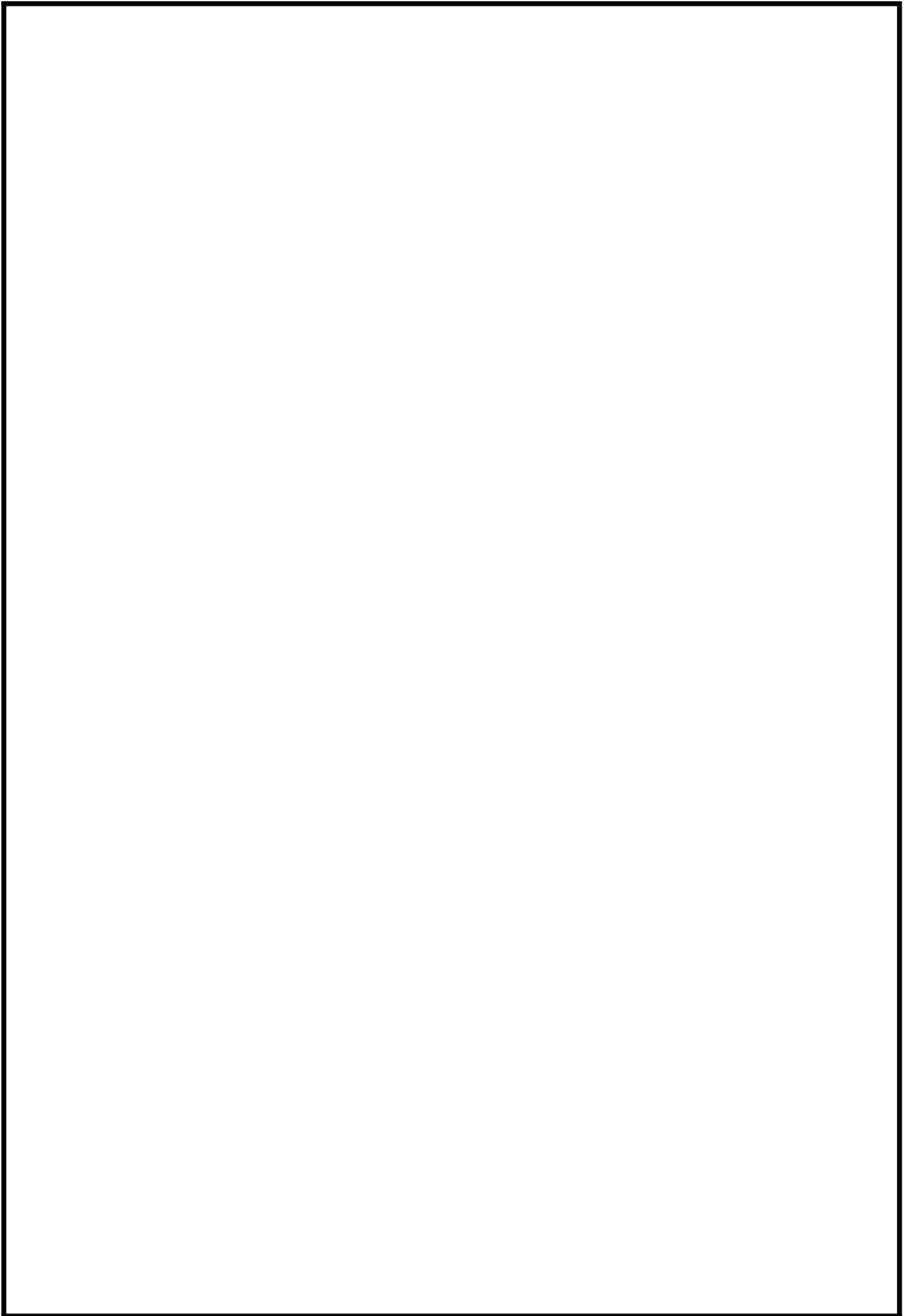
```
Json Content
1  {
2    "name":"xyz",
3    "email":"xyz@gmail.com",
4    "password":"123",
5    "category":"donor",
6    "bloodgroup":"AB+VE",
7    "location":{"
8      "lat":"11.6854",
9      "lon":"76.1320"
10   }
11 }
```

```
1  {
2    "success": true,
3    "data": {
4      "name": "xyz",
5      "email": "xyz@gmail.com",
6      "password": "123",
7      "category": "donor",
8      "bloodgroup": "AB+VE",
9      "location": {
10        "lat": "11.6854",
11        "lon": "76.1320"
12      },
13      "_id": "63dfc1156ee541bccc15d68b",
14      "createdAt": "2023-02-05T14:45:41.119Z",
15      "updatedAt": "2023-02-05T14:45:41.119Z",
16      "__v": 0
17    }
18 }
```

DATABASE DATA

```
> location: Object

  _id: ObjectId('63dfc1156ee541bccc15d68b')
  name: "xyz"
  email: "xyz@gmail.com"
  password: "123"
  category: "donor"
  bloodgroup: "AB+VE"
> location: Object
  createdAt: 2023-02-05T14:45:41.119+00:00
  updatedAt: 2023-02-05T14:45:41.119+00:00
  __v: 0
```

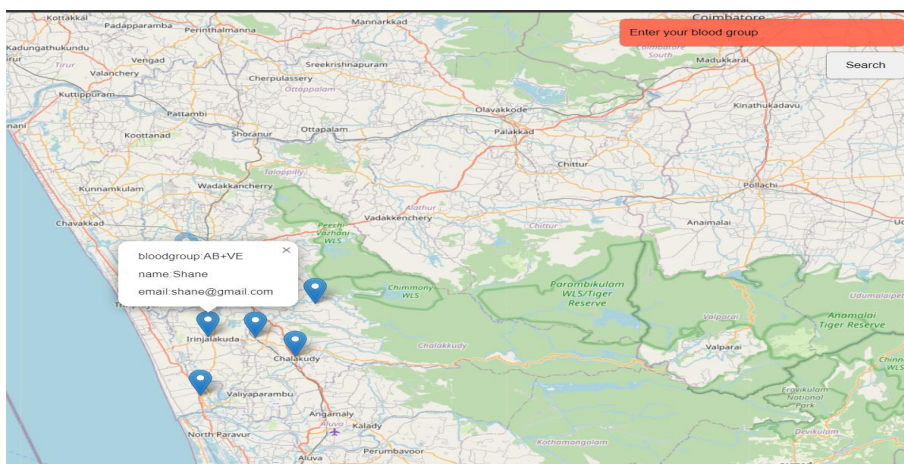
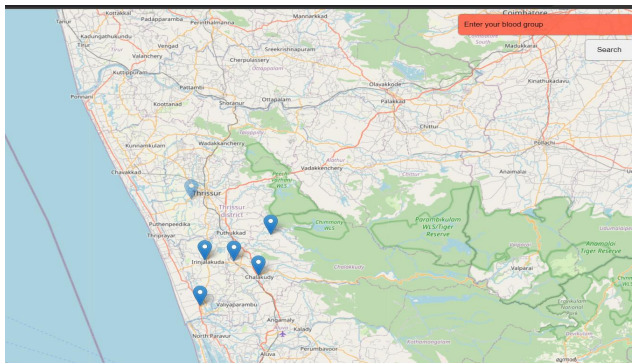


CODE FOR FILTERING DONORS

```
client > src > pages > Mappage > JS Mappage.js > ...
1 import React, { useEffect, useState } from "react";
2 import Searchcomponent from "../../components/Searchcomponent/Searchcomponent";
3 import Mapcomponent from "../../components/Mapcomponent/Mapcomponent";
4 import { toast, ToastContainer } from "react-toastify";
5 import "react-toastify/dist/ReactToastify.css";
6 import "../../mapPage.css";
7
8 function Mappage() {
9   const [bloodGroup, setBloodGroup] = useState(undefined);
10  const [location, setLocation] = useState(undefined);
11  const [data, setData] = useState([]);
12  const [filteredData, setFilteredData] = useState([]);
13
14  function dataFilter() {
15    setFilteredData(data.filter((dat) => dat.bloodgroup === bloodGroup));
16    if (data.filter((dat) => dat.bloodgroup === bloodGroup).length === 0) {
17      toast.warning("No donor for the blood group",{
18        position:'bottom-left'
19      });
20    }
21  }
22
23  async function fetchDonors() {
24    await fetch('http://localhost:8000/user/getallusers')
25      .then((response) => {
26        return response.json();
27      })
28      .then((data) => {
29        setData(data.data);
30        setFilteredData(data.data);
31      });
32  }
33
34  useEffect(() => {
35    fetchDonors();
36  }, []);
37  return (
38    <div className="mappagewrapper">
39      <Searchcomponent
```

```
    <Searchcomponent
40      bloodGroup={bloodGroup}
41      setBloodGroup={setBloodGroup}
42      location={location}
43      setLocation={setLocation}
44      dataFilter={dataFilter}
45    />
46    <Mapcomponent data={filteredData} />
47    <ToastContainer />
48  </div>
49  );
50
51 export default Mappage;
```

AVAILABLE DONORS BASED ON SEARCH



RESULT:

Application for blood donation developed successfully.

