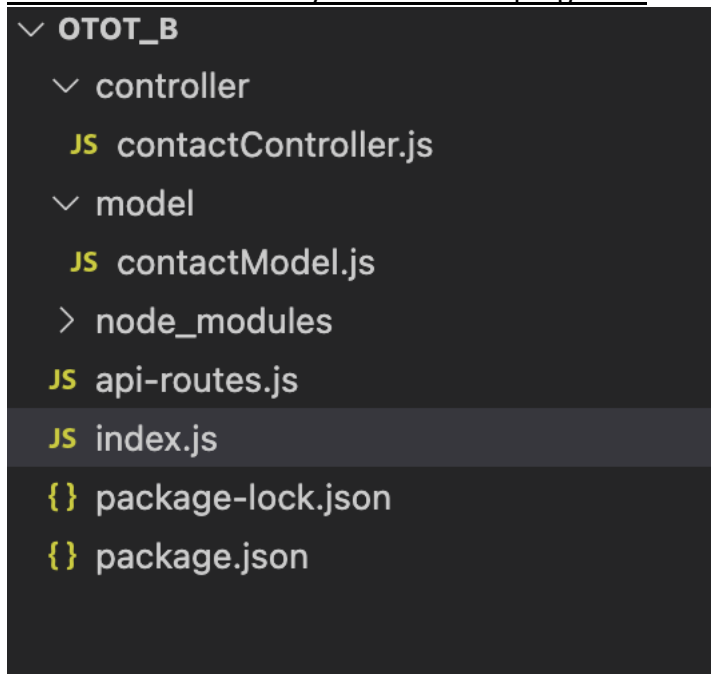


Name: Justin Yip Jeng Teng Matric No.: A0222764E
Github link: <https://github.com/justinyjt/OTOT-B>

B1:

Screenshots of directory structure and programs:



Directory structure



index.js

```

1 // Initialize express router
2 let router = require('express').Router();
3 // Set default API response
4 router.get('/', function (req, res) {
5   res.json({
6     status: 'API Its Working',
7     message: 'Welcome to OTOT_B1 crafted with love!',
8   });
9 });
10 // Import contact controller
11 var contactController = require('./controller/contactController');
12 // Contact routes
13 router.route('/contacts')
14   .get(contactController.index)
15   .post(contactController.new);
16 router.route('/contacts/:contact_id')
17   .get(contactController.view)
18   .patch(contactController.update)
19   .put(contactController.update)
20   .delete(contactController.delete);
21 // Export API routes
22 module.exports = router;

```

api-routes.js

```

1 var mongoose = require('mongoose');
2 // Setup schema
3 var contactSchema = mongoose.Schema({
4   name: {
5     type: String,
6     required: true
7   },
8   email: {
9     type: String,
10    required: true
11  },
12  gender: String,
13  phone: String,
14  create_date: {
15    type: Date,
16    default: Date.now
17  }
18 });
19 // Export Contact model
20 var Contact = module.exports = mongoose.model('contact', contactSchema);
21 module.exports.get = function (callback, limit) {
22   Contact.find(callback).limit(limit);
23 }

```

contactModel.js

```

1 # pull the Node.js Docker image
2 FROM node:alpine
3
4 # create the directory inside the container
5 WORKDIR /usr/app
6
7 # copy the package.json files from local machine to the workdir in container
8 COPY package*.json ./
9
10 # run npm install in our local machine
11 RUN npm install
12
13 # copy the generated modules and all other files to the container
14 COPY . .
15
16 EXPOSE 8080
17
18 # the command that starts our app
19 CMD ["node", "index.js"]

```

Dockerfile

```

controller > JS contactController.js > update > update > Contact.findById() callback
1 // Import contact model
2 Contact = require('../model/contactModel');
3 // Handle index actions
4 exports.index = function (req, res) {
5     Contact.get(function (err, contacts) {
6         if (err) {
7             res.json({
8                 status: "error",
9                 message: err,
10            });
11        }
12        res.json({
13            status: "success",
14            message: "Contacts retrieved successfully",
15            data: contacts
16        });
17    });
18 };
19 // Handle create contact actions
20 exports.new = function (req, res) {
21     var contact = new Contact();
22     contact.name = req.body.name ? req.body.name : contact.name;
23     contact.gender = req.body.gender;
24     contact.email = req.body.email;
25     contact.phone = req.body.phone;
26     // save the contact and check for errors
27     contact.save(function (err) {
28         // if (err)
29         //     res.json(err);
30     res.json({
31         message: 'New contact created!',
32         data: contact
33     });
34 });
35 };
36 // Handle view contact info
37 exports.view = function (req, res) {
38     Contact.findById(req.params.contact_id, function (err, contact) {
39         if (err)
40             res.send(err);
41         res.json({
42             message: 'Contact details loading..',
43             data: contact
44         });
45     });
46 };
47 // Handle update contact info
48 exports.update = function (req, res) {
49     console.log(req.params.contact_id);
50     Contact.findById(req.params.contact_id, function (err, contact) {
51         if (err)
52             res.send(err);
53     contact.name = req.body.name ? req.body.name : contact.name;
54     contact.gender = req.body.gender;
55     contact.email = req.body.email;
56     contact.phone = req.body.phone;
57     // save the contact and check for errors
58     contact.save(function (err) {
59         if (err)
60             res.json(err);
61         res.json({
62             message: 'Contact Info updated',
63             data: contact
64         });
65     });
66 });
67 };
68 // Handle delete contact
69 exports.delete = function (req, res) {
70     Contact.remove({
71         _id: req.params.contact_id
72     }, function (err, contact) {
73         if (err)
74             res.send(err);
75     res.json({
76         status: "success",
77         message: 'Contact deleted'
78     });
79 });
80 };

```

contactController.js

Successful API calls on localhost via postman:

POST ▼ http://localhost:8080/api/contacts Send ▼

Params Authorization Headers (8) **Body** ● Pre-request Script Tests Settings Cookies

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	name	justin			
<input checked="" type="checkbox"/>	email	justin@gmail.com			
<input checked="" type="checkbox"/>	gender	male			
<input checked="" type="checkbox"/>	phone	99999999			
	Key	Value	Description		

Body Cookies Headers (7) Test Results 200 OK 51 ms 439 B Save Response ▼

Pretty Raw Preview Visualize JSON ▼ ≡

```
1  {
2    "message": "New contact created!",
3    "data": {
4      "_id": "631e97090f1db21142b2947b",
5      "create_date": "2022-09-12T02:18:49.077Z",
6      "name": "justin",
7      "gender": "male",
8      "email": "justin@gmail.com",
9      "phone": "99999999",
10     "__v": 0
11   }
12 }
```

POST request to insert contact

GET ▼ http://localhost:8080/api/contacts Send ▼

Params Authorization Headers (6) **Body** Pre-request Script Tests Settings Cookies

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
	Key	Value	Description		

Body Cookies Headers (7) Test Results 200 OK 22 ms 471 B Save Response ▼

Pretty Raw Preview Visualize JSON ▼ ≡

```
1  {
2    "status": "success",
3    "message": "Contacts retrieved successfully",
4    "data": [
5      {
6        "_id": "631e97090f1db21142b2947b",
7        "create_date": "2022-09-12T02:18:49.077Z",
8        "name": "justin",
9        "gender": "male",
10       "email": "justin@gmail.com",
11       "phone": "99999999",
12       "__v": 0
13     }
14   ]
15 }
```

GET request to retrieve contacts

PUT ⌵ http://localhost:8080/api/contacts/631e97090f1db21142b2947b Send ⌵

Params Authorization Headers (8) **Body** ● Pre-request Script Tests Settings Cookies </>

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL i 💡

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	name	john			
<input checked="" type="checkbox"/>	email	john@gmail.com			
<input checked="" type="checkbox"/>	gender	female			
<input checked="" type="checkbox"/>	phone	999			
	Key	Value	Description		

Body Cookies Headers (7) Test Results 🌐 200 OK 19 ms 432 B Save Response ⌵

Pretty Raw Preview Visualize JSON ⌵ 📄 🔍

```
1  {
2    "message": "Contact Info updated",
3    "data": {
4      "_id": "631e97090f1db21142b2947b",
5      "create_date": "2022-09-12T02:18:49.077Z",
6      "name": "john",
7      "gender": "female",
8      "email": "john@gmail.com",
9      "phone": "999",
10     "__v": 0
11   }
12 }
```

PUT call to update contact info

DELETE ⌵ http://localhost:8080/api/contacts/631e97090f1db21142b2947b Send ⌵

Params Authorization Headers (6) **Body** Pre-request Script Tests Settings Cookies

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
	Key	Value	Description		

Body Cookies Headers (7) Test Results 🌐 200 OK 13 ms 283 B Save Response ⌵

Pretty Raw Preview Visualize JSON ⌵ 📄 🔍

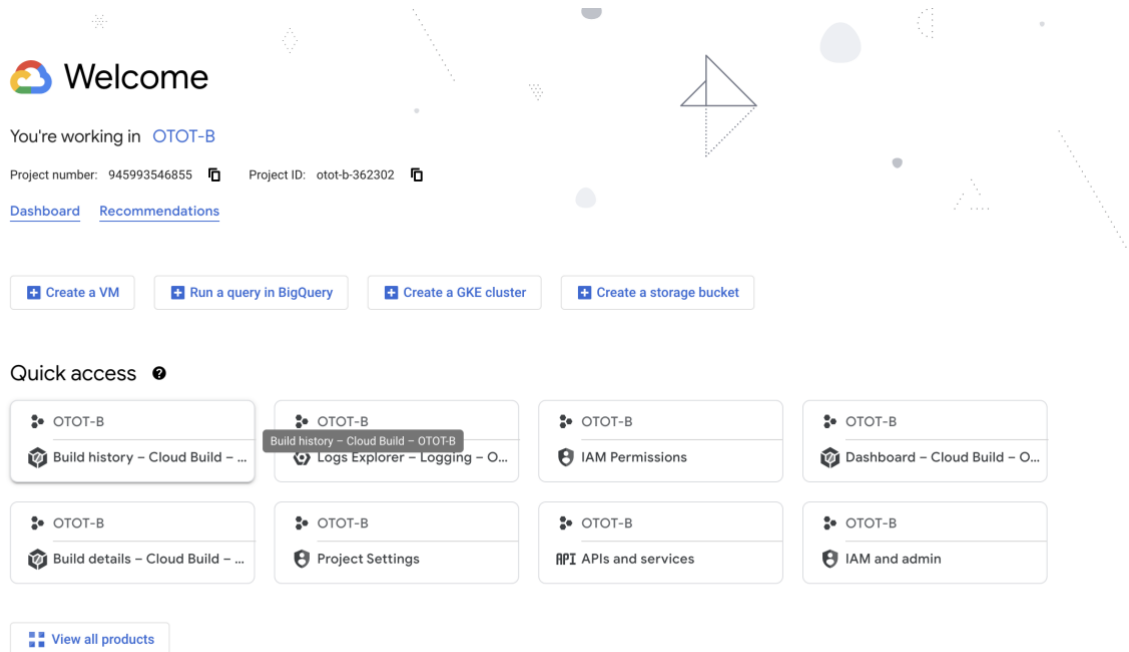
```
1  {
2    "status": "success",
3    "message": "Contact deleted"
4  }
```

DELETE call to delete contact from database

Deployment to GCP:

1. Run the following commands:

- ``gcloud projects list`` to get project name
- ``gcloud set project <project name>``
- ``gcloud config set run/region asia-southeast1``
- ``gcloud run deploy <service-name> --source .``



```
Running OTOT_B on port 8080
^C
(base) justinyip@Justins-MacBook-Pro OTOT_B % gcloud projects list
PROJECT_ID      NAME                PROJECT_NUMBER
otot-b-362302    OTOT-B              945993546855
starry-journal-362302 My First Project    677943302709
(base) justinyip@Justins-MacBook-Pro OTOT_B % gcloud config set project otot-b-362302
Updated property [core/project].
(base) justinyip@Justins-MacBook-Pro OTOT_B % gcloud run deploy otot-b --source .
This command is equivalent to running `gcloud builds submit --tag [IMAGE]` and `gcloud run deploy otot-b --image [IMAGE]`

Building using Dockerfile and deploying container to Cloud Run service [otot-b] in project [otot-b-362302] region [asia-southeast1]
✓ Building and deploying... Done.
  ✓ Uploading sources...
  ✓ Building Container... Logs are available at [https://console.cloud.google.com/cloud-build/builds/6706e663-b2ff-4b75-99ad-caf16a35d351?project=945993546855].
  ✓ Creating Revision...
  ✓ Routing traffic...
Done.
Service [otot-b] revision [otot-b-00009-mah] has been deployed and is serving 100 percent of traffic.
Service URL: https://otot-b-bkqcejrzeq-as.a.run.app
```

Successful API calls on deployment via postman:

The image shows a Postman interface for a POST request. The URL is `https://otot-b-bkqcejrzej-as.a.run.app/api/contacts`. The request body is set to 'x-www-form-urlencoded' and contains the following data:

KEY	VALUE	DESCRIPTION
name	justin	
email	justin@gmail.com	
gender	cat	
phone	000000000	
Key	Value	Description

The response is a 200 OK status with a response time of 101 ms and a body size of 651 B. The response body is displayed in JSON format:

```
1  {
2    "message": "New contact created!",
3    "data": {
4      "_id": "631eb9871080fff14d997a1d",
5      "create_date": "2022-09-12T04:45:59.016Z",
6      "name": "justin",
7      "gender": "cat",
8      "email": "justin@gmail.com",
9      "phone": "000000000",
10     "__v": 0
11   }
```

POST

GET

https://otot-b-bkqcejrzej-as.a.run.app/api/contacts

Send

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

This request does not have a body

Body

Cookies

Headers (8)

Test Results

200 OK

35 ms

988 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
2  "status": "success",
3  "message": "Contacts retrieved successfully",
4  "data": [
5    {
6      "_id": "631eb8a6b81c69e26ab1db62",
7      "create_date": "2022-09-12T04:42:14.628Z",
8      "name": "justin",
9      "gender": "male",
10     "email": "justin@gmail.com",
11     "phone": "99999999",
12     "__v": 0
13   },
14   {
15     "_id": "631eb962ceaa249a90c215c6",
16     "create_date": "2022-09-12T04:45:22.507Z",
17     "name": "justin",
18     "gender": "cat",
19     "email": "justin@gmail.com",
20     "__v": 0
21   },
22 ]
```

GET

PUT ▼ https://otot-b-bkqcejrzej-as.a.run.app/api/contacts/631eb8a6b81c69e26ab1db62 Send ▼

Params Authorization Headers (8) **Body** ● Pre-request Script Tests Settings Cookies

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	name	john			
<input checked="" type="checkbox"/>	email	asf			
	Key	Value	Description		

Body Cookies Headers (8) Test Results 🌐 200 OK 60 ms 601 B Save Response ▼

Pretty Raw Preview Visualize JSON ▼ 🔍

```
1  {
2    "message": "Contact Info updated",
3    "data": {
4      "_id": "631eb8a6b81c69e26ab1db62",
5      "create_date": "2022-09-12T04:42:14.628Z",
6      "name": "john",
7      "email": "asf",
8      "__v": 0
9    }
10 }
```

PUT

GCP DEPLOYMENT / New Request Save ▼ ... 🔍 🗒

DELETE ▼ https://otot-b-bkqcejrzej-as.a.run.app/api/contacts/631eb8a6b81c69e26ab1db62 Send ▼

Params Authorization Headers (6) **Body** ● Pre-request Script Tests Settings Cookies

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL

This request does not have a body

Body Cookies Headers (8) Test Results 🌐 200 OK 60 ms 495 B Save Response ▼

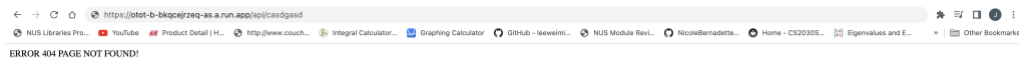
Pretty Raw Preview Visualize JSON ▼ 🔍

```
1  {
2    "status": "success",
3    "message": "Contact deleted"
4  }
```

DELETE

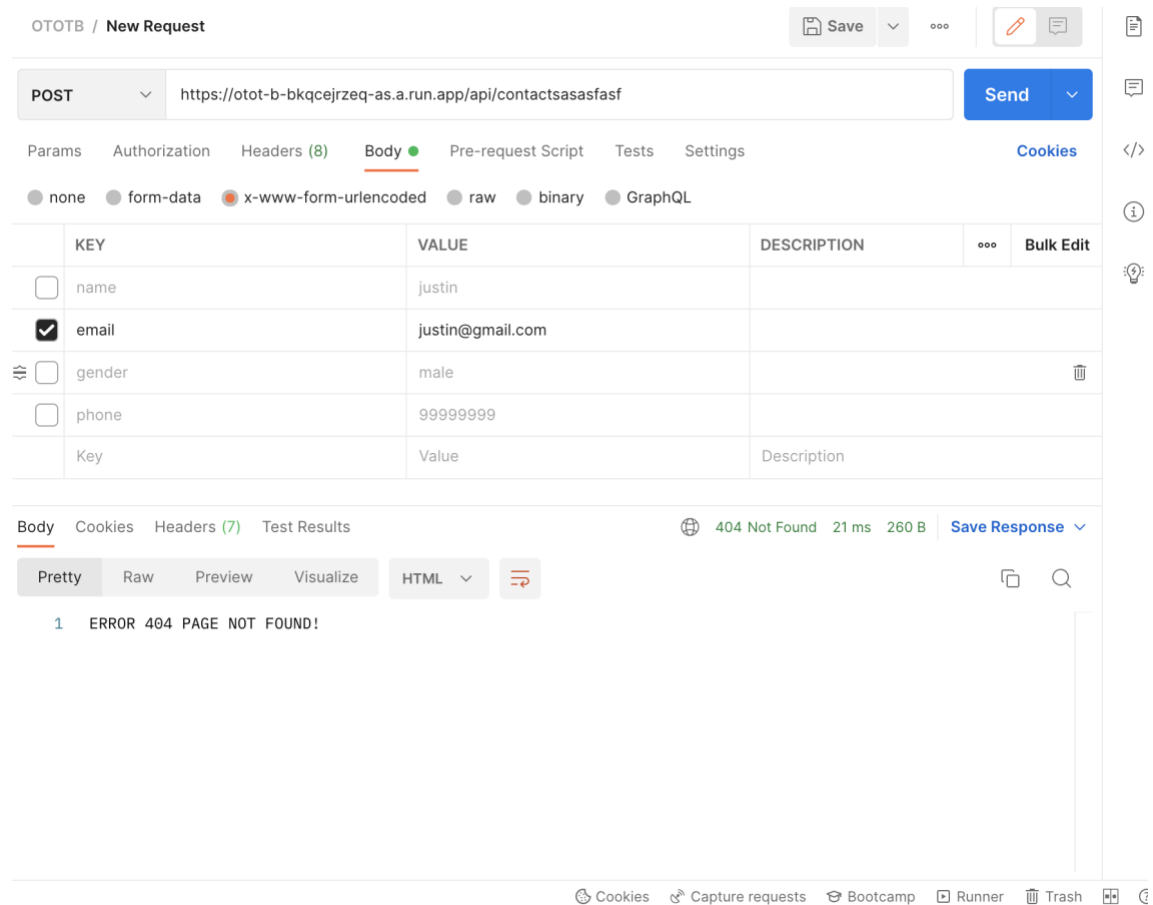
Common edge cases and error-resiliency:

1.



Return error 404 when user tries to access (GET) an invalid url.

2.



Return error 404 when user tries to POST to invalid url

3.

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** `https://otot-b-bkqcejrzej-as.a.run.app/api/contacts`
- Body Type:** x-www-form-urlencoded
- Request Body:**

KEY	VALUE	DESCRIPTION
<input type="checkbox"/> name	justin	
<input checked="" type="checkbox"/> email	justin@gmail.com	
<input type="checkbox"/> gender	male	
<input type="checkbox"/> phone	99999999	
Key	Value	Description
- Response:** 401 Unauthorized, 5 ms, 281 B. Message: `"message": "Missing name or email!"`

Return error message when user tries to insert contact without required name/email fields.

B3:

1. Run ``npm / create-react-app`` then run ``npx create-react-app otot-b``
2. Edit and add the following js files

```
otot-b > frontend > src > JS App.js > ...
1  import './App.css';
2  import Table from "../components/table"
3  import FunctionSelect from "../components/function_select"
4
5  function App() {
6    return (
7      <div className="App">
8        <h1>Contacts</h1>
9        <Table />
10       <FunctionSelect />
11     </div>
12   );
13 }
14
15 export default App;
16
```

App.js

```
otot-b > frontend > src > utils > JS axios.utils.js > ...
1  import axios from "axios";
2
3  export const axiosInstance = axios.create({
4    |   baseURL: process.env.REACT_APP_BACKEND_API || "http://localhost:8080",
5  });
```

utils/axios.utils.js

```

otot-b > frontend > src > components > JS add.js > Form
2 import { useForm } from "react-hook-form";
3 import { axiosInstance } from "../utils/axios.utils";
4
5 function Form() {
6   const { register, handleSubmit, reset } = useForm();
7   const onSubmit = (data) => {
8     axiosInstance
9       .post("/api/contacts", data)
10      .then(() => reset())
11      .catch(() => {
12        console.log("unable to add contact", data);
13      });
14   };
15
16   return (
17     <form onSubmit={handleSubmit(onSubmit)}>
18       <input
19         type="text"
20         id="name"
21         placeholder="name"
22         {...register("name", {
23           required: true,
24           minLength: { message: "Min length is 1", value: 1 },
25         })}
26       />
27
28       <input
29         type="email"
30         id="email"
31         placeholder="email"
32         {...register("email", {
33           required: false,
34           minLength: { message: "Min length is 1", value: 1 },
35         })}
36       />
37
38       <input
39         type="text"
40         id="gender"
41         placeholder="gender"
42         {...register("gender", {
43           minLength: { message: "Min length is 1", value: 1 },
44         })}
45       />
46
47       <input
48         type="tel"
49         id="phone"
50         placeholder="phone number"
51         {...register("phone", {
52           minLength: { message: "Min length is 1", value: 1 },
53         })}
54       />
55
56       <input type="submit" value={"Add"} />
57     </form>
58   );
59 }
60
61 export default Form;

```

components/add.js

```
otot-b > frontend > src > components > JS button.js > IconLabelButtons
1  import React from "react";
2  import Button from "@mui/material/Button";
3  import DeleteIcon from "@mui/icons-material/Delete";
4  import SendIcon from "@mui/icons-material/Send";
5  import Stack from "@mui/material/Stack";
6
7  export default function IconLabelButtons() {
8    return (
9      <Stack direction="row" spacing={2}>
10        <Button variant="outlined" startIcon={<DeleteIcon />}>
11          Delete
12        </Button>
13        <Button variant="contained" endIcon={<SendIcon />}>
14          Send
15        </Button>
16      </Stack>
17    );
18  }
```

components/button.js

```
otot-b > frontend > src > components > JS delete.js > Form
1  import React from "react";
2  import { useForm } from "react-hook-form";
3
4  import { axiosInstance } from "../utils/axios.utils";
5
6  function Form() {
7    const { register, handleSubmit, reset } = useForm();
8    const onSubmit = (data) => {
9      axiosInstance
10        .delete(`/api/contacts/${data._id}`)
11        .then((value) => {
12          reset();
13          console.log(value);
14        })
15        .catch(() => `unable to delete ${data._id}`);
16    };
17
18    return (
19      <form onSubmit={handleSubmit(onSubmit)}>
20        <input
21          type="text"
22          id="ID"
23          placeholder="id"
24          {...register("_id", {
25            required: true,
26            minLength: { message: "Min length is 1", value: 1 },
27          })}
28        />
29        <input type="submit" value={"Delete"} />
30      </form>
31    );
32  }
33
34  export default Form;
```

components/delete.js

```

otot-b > frontend > src > components > JS function_select.js > BasicSelect
1  import * as React from "react";
2  import Box from "@mui/material/Box";
3  import InputLabel from "@mui/material/InputLabel";
4  import MenuItem from "@mui/material/MenuItem";
5  import FormControl from "@mui/material/FormControl";
6  import Select, { SelectChangeEvent } from "@mui/material/Select";
7
8  import AddContactForm from "./add";
9  import DeleteContactForm from "./delete";
10 import UpdateContactForm from "./update";
11
12 export default function BasicSelect() {
13   const [action, setAction] = React.useState("");
14
15   const handleChange = (event) => {
16     setAction(event.target.value);
17     console.log(event.target.value);
18   };
19
20   return (
21     <div>
22       <div
23         style={{
24           display: "flex",
25           alignItems: "center",
26           justifyContent: "center",
27         }}
28       >
29         <Box sx={{ minWidth: 120, maxWidth: 120 }}>
30           <FormControl fullWidth>
31             <InputLabel id="select-label">Action</InputLabel>
32             <Select
33               labelId="action-selector"
34               id="action-selector"
35               value={action}
36               label="Action"
37               onChange={handleChange}
38             >
39               <MenuItem value={"add"}>Add</MenuItem>
40               <MenuItem value={"update"}>Update</MenuItem>
41               <MenuItem value={"delete"}>Delete</MenuItem>
42             </Select>
43           </FormControl>
44         </Box>
45       </div>
46       {action === "add" && <AddContactForm />}
47       {action === "update" && <UpdateContactForm />}
48       {action === "delete" && <DeleteContactForm />}
49     </div>
50   );
51 }

```

components/function_select.js


```

1  import * as React from "react";
2  import { DataGrid, GridColDef } from "@mui/x-data-grid";
3  import { axiosInstance } from "../utils/axios.utils";
4
5  const columns = [
6    { field: "name", headerName: "Name", flex: 1 },
7    { field: "email", headerName: "Email", flex: 1 },
8    { field: "phone", headerName: "Phone", flex: 1 },
9    { field: "address", headerName: "Address", flex: 1 },
10   { field: "city", headerName: "City", flex: 1 },
11 ];
12
13 export default function Table() {
14   const getList = () => void
15   const getList = () => {
16     axiosInstance.get("/api/contacts").then((res) => {
17       console.log("hi", res)
18       setContactList(res.data.data);
19     });
20   };
21
22   React.useEffect(() => getList, []);
23
24   return (
25     <div>
26       <div style={{ height: 650, width: "90vh" }}>
27         <DataGrid
28           rows={contactList}
29           getRowId={(row => row._id)}
30           columns={columns}
31           pageSize={10}
32           rowsPerPageOptions={[10]}
33           disableSelectionOnClick
34         />
35       </div>
36       <div>
37         <input type="button" value="Refresh list" onClick={getList} />
38       </div>
39     </div>
40   );
41 }

```

components/table.js

```

1  import React from "react";
2  import { useForm } from "react-hook-form";
3
4  import { axiosInstance } from "../utils/axios.utils";
5
6  function Form() {
7    const { register, handleSubmit, reset } = useForm();
8    const onSubmit = async (data) => {
9      const curr = await axiosInstance.get(
10        `api/contacts/${data._id}`
11      );
12
13      if (!curr.data) {
14        console.log(`unable to get ${data._id}`);
15      }
16
17      console.log(data);
18      data.email = data.email ?? curr.data.email;
19      data.gender = data.gender ?? curr.data.gender;
20      data.name = data.name ?? curr.data.name;
21      data.phone = data.phone ?? curr.data.phone;
22      console.log(data);
23
24      axiosInstance
25        .patch(`api/contacts/${data._id}`, data)
26        .then(() => reset())
27        .catch(() => {
28          console.log(`unable to update ${data._id} with`, data);
29        });
30    };
31
32    return (
33      <form onSubmit={handleSubmit(onSubmit)}>
34        <input type="text" id="ID" placeholder="ID" {...register("_id")} />
35        <input type="text" id="name" placeholder="name" {...register("name")} />
36
37        <input
38          type="email"
39          id="email"
40          placeholder="email"
41          {...register("email")}
42        />
43
44        <input
45          type="text"
46          id="gender"
47          placeholder="gender"
48          {...register("gender")}
49        />
50
51        <input
52          type="tel"
53          id="phone"
54          placeholder="phone number"
55          {...register("phone")}
56        />
57
58        <input type="submit" value={"Update"} />
59      </form>
60    );

```

components/update.js

3. Start up the backend and frontend with npm start.
4. This page should be visible:

localhost:3000

NUS Libraries Pro...

YouTube

Product Detail | H...

http://www.couch...

Integral Calculator...

Graphing Calculator

GitHub - leeweiml...

NUS Module Revl...

NicoleBernadette...

Home - CS2030S...

Eigenvalues and E...

Other Bookmarks

Contacts

Name	Email	Gender	Phone	ID
justin	justin@gmail.com	cat		631eb962ceaa249a90c215c6
john	john@gmail.com	female	999	631eb9871080fff14d997a1d
clare	asdfas@sdga	asf	asdf	63241d5f3fe08c7f8d309f89

1-3 of 3

Refresh list

Action

Delete

id

Delete

5. Choose an action to perform with the dropdown menu:

Contacts

Name	Email	Gender	Phone	ID
justin	justin@gmail.com	cat		631eb962ceaa249a90c215c6
john	john@gmail.com	female	999	631eb9871080fff14d997a1d
justin	justin@gmail.com			631ec9b9b3729e14cb7ddd2b
justin	justin@gmail.com			632158d3be4ff25348dded88
clare	asdfas@sdga	asf	asdf	63241d5f3fe08c7f8d309f89

1-5 of 5

Refresh list

Action

Add

Update

Delete

6. This is how to add (need to click on refresh):

Refresh list

Action

Add ▾

name

email

gender

phone number

Add

test

test@gmail.com

mouse

999

Add

Contacts

Name	Email	Gender	Phone	ID
justin	justin@gmail.com	cat		631eb962ceaa249a90c215c6
john	john@gmail.com	female	999	631eb9871080fff14d997a1d
clare	asdfas@sdga	asf	asdf	63241d5f3fe08c7f8d309f89
test	test@gmail.com	mouse	999	63253611d3072ca22ef96d88
1-4 of 4 < >				

Refresh list

Action

Add ▾

name

email

gender

phone number

Add

7. This is how to delete (need to click refresh):

clare	asdfas@sdga	asf	asdf	63241d5f3fe08c7f8d309f89
test	test@gmail.com	mouse	999	63253611d3072ca22ef96d88
1—4 of 4 < >				

1-4 of 4 < >

Refresh list

Action

Delete ▼

41d5f3fe08c7f8d309f89

Delete

 Lecture 6 - NoS....pdf

Contacts

Name	Email	Gender	Phone	ID
justin	justin@gmail.com	cat		631eb962ceaa249a90c215c6
test	test@gmail.com	mouse	999	63253611d3072ca22ef96d88

1-2 of 2

1-2 of 2 < >

Refresh list

- Action

Delete ▼

id

Delete

8. This is how to update:

1-2 of 2 < >

Refresh list

Action

Update ▾

63253b761d5323a8262	name	email	dog	phone number	Update
---------------------	------	-------	-----	--------------	--------

test	test@gmail.com	dog	999	63253b761d5323a8262ecd80
------	----------------	-----	-----	--------------------------

1-2 of 2 < >

Refresh list

Action

Update ▾

ID	name	email	gender	phone number	Update
----	------	-------	--------	--------------	--------