#### PARSHWANATH CHARITABLE TRUST'S



### A.P. SHAH INSTITUTE OF TECHNOLOGY

## Department of Computer Science and Engineering Data Science



# Department of Computer Science and Engineering Data Science

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Class / Branch: CSE(DS)

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### Experiment No. 5

**Aim:-** Construct front end applications using React and back end using Node.js/express.

### **Input:**

```
Server.js:
var express = require("express");
var mysql = require("mysql");
var app = express();

var con = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "root",
  database: "students",
```

```
});
app.get("/", async function (req, res) {
 const data = await getAll();
 console.log(data);
 res.writeHead(200, {
  "Content-Type": "text/html",
  "Access-Control-Allow-Origin": "*",
 });
 const putput = JSON.stringify(data);
 res.end(putput);
});
app.get("/insert", async function (req, res) {
 let TestMessage = { body: "data inserted successfully" };
 const jsonContent = JSON.stringify(TestMessage);
 const data = await insertData(req.query.email);
 console.log(data);
 res.writeHead(200, {
  "Content-Type": "text/html",
  "Access-Control-Allow-Origin": "*",
 });
```

```
if (data.affectedRows > 0) {
  const datas = await getAll();
  const putput = JSON.stringify(datas);
  res.end(putput);
 } else {
  const datas = await getAll();
  const putput = JSON.stringify(datas);
  res.end(putput);
 }
});
var server = app.listen(8000, function () {
 var host = server.address().address;
 var port = server.address().port;
 console.log("Example app listening at http://%s:%s", host, port);
});
const getAll = () => {
 return new Promise((resolve, reject) => {
  con.query("SELECT * FROM std_details", (err, result) => {
   if (err) {
     reject(err);
```

```
} else {
     resolve(result);
    }
  });
 });
};
const insertData = (email) => {
 return new Promise((resolve, reject) => {
  var sql = "INSERT INTO std_details (email) VALUES ?";
  var values = [[email]];
  con.query(sql, [values], function (err, result) {
    if (err) {
     reject(err);
    } else {
     resolve(result);
    }
  });
 });
};
App.js:
import "./App.css";
```

```
import "./style.css";
import { useState, useEffect } from "react";
import "bootstrap/dist/css/bootstrap.min.css";
function App() {
 const [messages, setMessages] = useState([""]);
 const [email, setEmail] = useState("");
 useEffect(() => {
  fetch("http://localhost:8000/")
   .then((res) => res.json())
   .then((data) => {
     console.log(data);
     setMessages(data);
   });
 }, [email]);
 const handleChange = (event) => {
  setEmail(event.target.value);
 };
 const\ handeSubmit = (event) => \{
  event.preventDefault();
```

```
fetch("http://localhost:8000/insert?email=" + email)
  .then((res) => res.json())
  .then((data) => {
   setMessages(data);
  });
};
return (
 <div className="App">
  <section id="footer">
   <section id="banner">
    <div className="container-fluid" id="banner-container">
      <div className="row" id="banner-row">
       <div className="col-md-4" id="footer-col2"></div>
       <div className="col-md-4" id="footer-col2">
        <h3>Store your email address</h3>
        <form onSubmit={handeSubmit} method="GET">
         <div className="mb-3">
          <input
           type="email"
           placeholder="Enter Your Email"
           className="form-control"
           id="exampleInputEmail1"
```

```
aria-describedby="emailHelp"
  onChange={handleChange}
 />
 <div id="emailHelp" className="form-text">
  We'll never share your email with anyone else.
 </div>
</div>
<button type="submit" className="btn btn-primary">
 Submit
</button>
</form>
<thead>
 #
  Email
 </thead>
{messages.map((message) => (
  {message.id}
   {message.email}
```

```
))}
         </div>
      </div>
     </div>
    </section>
   </section>
  </div>
 );
}
export default App;
App.css and style.css:
/* App.css */
* {
 margin: 0;
 padding: 0;
 font-family: 'Roboto Condensed', sans-serif;
}
```

```
/* Navbar */
.navbar-nav {
 margin-right: 0 !important;
 padding-right: 100px;
}
.navbar {
 background-color: #0a193d;
 color: white !important;
}
.nav-item a {
 color: white !important;
}
.nav-item {
 padding-left: 2px;
}
.navbar-brand {
 color: white !important;
 padding-left: 100px;
```

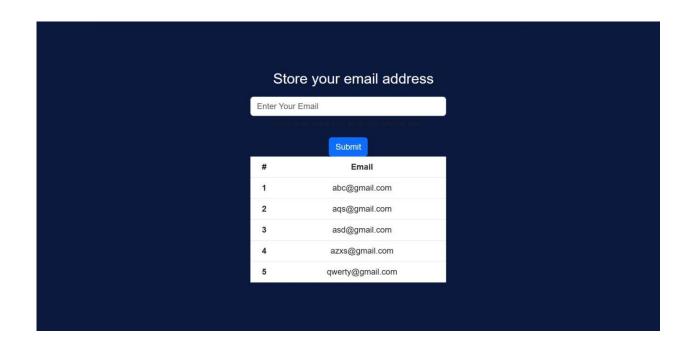
```
}
\#navbar button {
 color: white !important;
}
/* Banner */
\#banner-container \{
 background-color: #0a193d;
 color: white !important;
 padding-top: 80px;
 padding-bottom: 80px;
}
#banner-row img {
 max-width: 70%;
 height: auto;
 display: block;
 padding-left: 30px;
}
#banner-row h3,
p {
```

```
padding-left: 20px;
 padding-top: 20px;
 text-align: center;
}
#banner-row a {
 background-color: white !important;
 color: black !important;
 border: none;
 margin-left: 20px;
 margin-top: 20px;
}
#banner-col {
 padding-left: 20px;
}
/* Footer */
.mb-3 {
 padding-top: 10px;
}
```

/\* Responsive Design \*/

```
@media only screen and (max-width: 987px) {
 .navbar-brand {
  padding-left: 0px;
}
}
@media only screen and (max-width: 768px) {
 #banner-row img {
  padding-top: 20px;
 }
 .social-col {
  width: 33%;
 }
}
```

Output:



Conclusion:We have successfully Construct front end applications using React and back end using