

## CODING:

### Backend Code (Node.js + Express + SQLite)

server.js

```
const express = require('express');
const cors = require('cors');
const Database = require('better-sqlite3');
const app = express();
app.use(cors());
app.use(express.json());

const db = new Database('quiz.db');
db.exec(`CREATE TABLE IF NOT EXISTS quiz(
  id INTEGER PRIMARY KEY,
  question TEXT,
  optionA TEXT, optionB TEXT,
  optionC TEXT, optionD TEXT,
  answer TEXT
)`);

app.get('/api', (req, res) => {
  const rows = db.prepare('SELECT * FROM quiz').all();
  res.json(rows);
});

app.post('/api', (req, res) => {
  const q = req.body;
  db.prepare('INSERT INTO quiz(question,optionA,optionB,optionC,optionD,answer)
VALUES(?,?,?,?,?,?)')
.run(q.question, q.a, q.b, q.c, q.d, q.ans);
  res.json({ status: 'Added' });
});
```

```
app.listen(4000, () => console.log('Running'));
```

## Frontend Code (React)

App.js

```
import { useEffect, useState } from 'react';
```

```
export default function App() {  
  const [data, setData] = useState([]);
```

```
  useEffect(() => {  
    fetch('http://localhost:4000/api')  
      .then(r => r.json())  
      .then(setData);  
  }, []);
```

```
  return (  
    <div>  
      <h2>Quiz</h2>  
      {data.map((q,i)=>(  
        <div key={i}>  
          <p>{q.question}</p>  
          <ul>  
            <li>{q.optionA}</li>  
            <li>{q.optionB}</li>  
            <li>{q.optionC}</li>  
            <li>{q.optionD}</li>  
          </ul>  
        </div>  
      ))}  
    </div>  
  );  
}
```