

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>
  );
}
```