VNRVJIET

Name of the Laboratory:

Name of the Experiment:		
Experiment No:	Date:	

Week-10

<u>Aim</u>: Develop an express web application that can interact with REST API to perform CRUD operations on student data. (Use Postman)

Codes:

index.js:

```
const express = require('express');
const app = express();
const port = 3000;
app.use(express.json()); // to parse JSON request body
let students = []; // In-memory array to store student data
let idCounter = 1;
// CREATE - Add a new student
app.post('/students', (req, res) => {
const student = { id: idCounter++, ...req.body };
students.push(student);
res.status(201).send(student);
});
// READ - Get all students
app.get('/students', (req, res) => {
res.send(students);
});
// READ - Get a student by ID
app.get('/students/:id', (req, res) => {
const student = students.find(s \Rightarrow s.id === parseInt(reg.params.id));
if (!student) return res.status(404).send({ message: "Student not found" });
res.send(student);
});
// UPDATE - Update student by ID
app.put('/students/:id', (req, res) => {
const student = students.find(s => s.id === parseInt(req.params.id));
if (!student) return res.status(404).send({ message: "Student not found" });
Object.assign(student, req.body);
```

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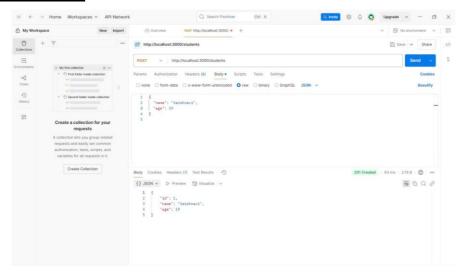
```
res.send(student);
});

// DELETE - Remove student by ID
app.delete('/students/:id', (req, res) => {
  const index = students.findIndex(s => s.id === parseInt(req.params.id));
  if (index === -1) return res.status(404).send({ message: "Student not found" });
  const deleted = students.splice(index, 1);
  res.send(deleted[0]);
  });

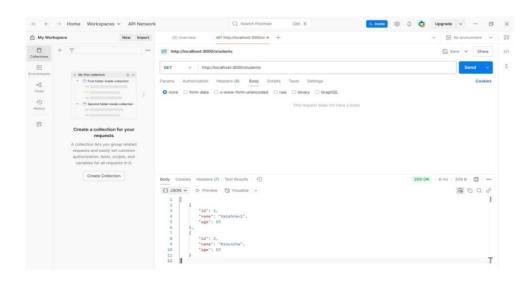
app.listen(port, () => {
  console.log(`Server running at http://localhost:${port}`);
  });
```

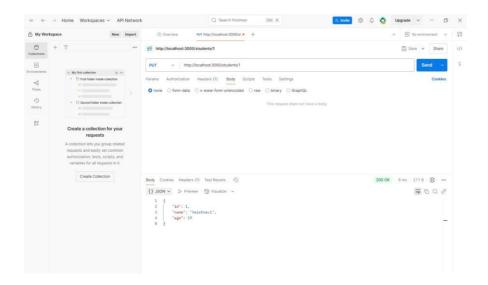
OUTPUT:

Testing Using Postman

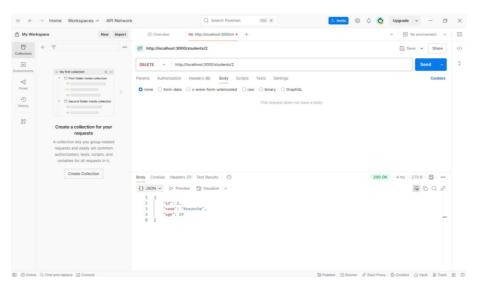


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