

Marwadi University Faculty of Technology

Department of Information and Communication Technology

Subject: Advanced Web Technology

Aim: Develop a web application which involves database operations using Express

Experiment :- 4 Date:- 05-03-2025

Enrollment No:- 92200133003

CODE:-

```
Student / Model.js
```

```
const mongoose = require('mongoose');

const studentSchema = new mongoose.Schema({
   name: {
     type: String,
     required: true
   },
   age: Number,
   department: String
});
```

module.exports = mongoose.model('Student', studentSchema);

```
Student / routes.js
const express = require('express');
const router = express.Router();
const Student = require('../models/students');
// CREATE
router.post('/', async (req, res) => {
    const student = new Student(req.body);
    await student.save();
    res.status(201).json(student);
 } catch (error) {
    res.status(400).json({ error: error.message });
});
// READ ALL
router.get('/', async (req, res) => {
 try {
    const students = await Student.find();
    res.json(students);
 } catch (error) {
    res.status(500).json({ error: error.message });
});
// READ ONE
router.get('/:id', async (req, res) => {
    const student = await Student.findById(req.params.id);
    if (!student) return res.status(404).json({ message: 'Student not found' });
    res.json(student);
 } catch (error) {
    res.status(500).json({ error: error.message });
});
// UPDATE
router.put('/:id', async (req, res) => {
    const student = await Student.findByIdAndUpdate(req.params.id, req.body, { new: true });
    res.json(student);
 } catch (error) {
    res.status(400).json({ error: error.message });
});
```



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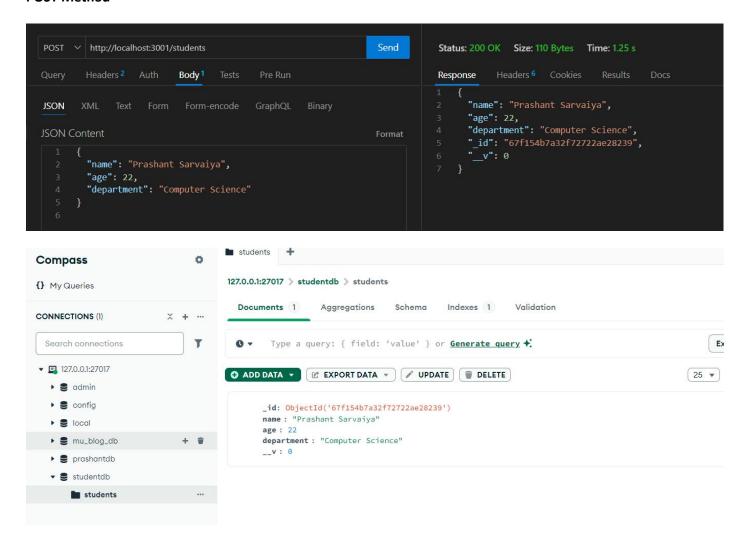
```
// DELETE
router.delete('/:id', async (req, res) => {
    await Student.findByIdAndDelete(req.params.id);
    res.json({ message: 'Student deleted' });
 } catch (error) {
    res.status(500).json({ error: error.message });
});
module.exports = router;
index.js
const express = require('express');
const mongoose = require('mongoose');
const app = express();
app.use(express.json());
mongoose.connect('mongodb://127.0.0.1:27017/studentdb', {
useNewUrlParser: true,
useUnifiedTopology: true,
const studentSchema = new mongoose.Schema({
name: String,
age: Number,
department: String,
const Student = mongoose.model('Student', studentSchema);
app.post('/students', async (req, res) => {
const student = new Student(req.body);
await student.save();
res.send(student);
app.get('/students', async (req, res) => {
const students = await Student.find();
res.send(students);
});
app.listen(3001, () => {
console.log('Server is running on http://localhost:3001');
});
.env
```

MONGO_URI=mongodb://localhost:27017/studentdb PORT=3001

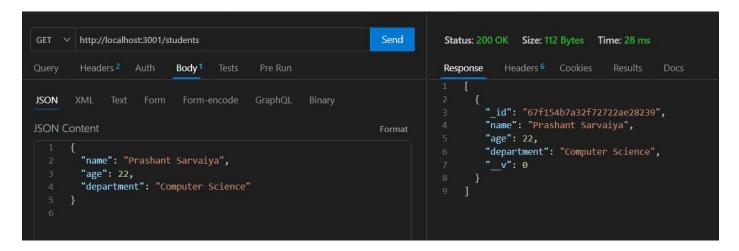


OUTPUT:

POST Method

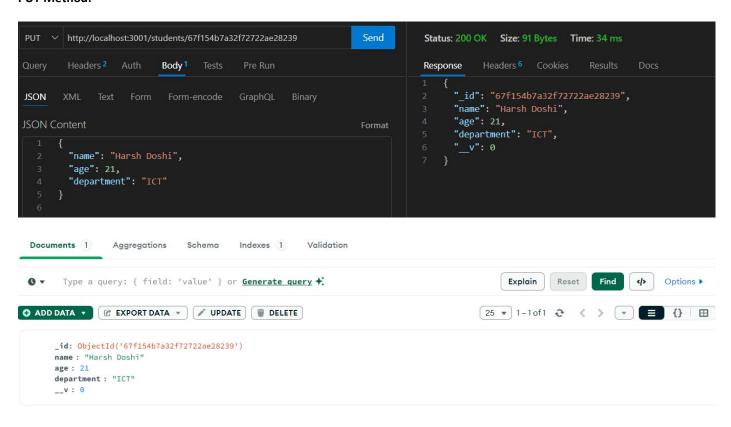


GET Method





PUT Method:



DELETE Method

