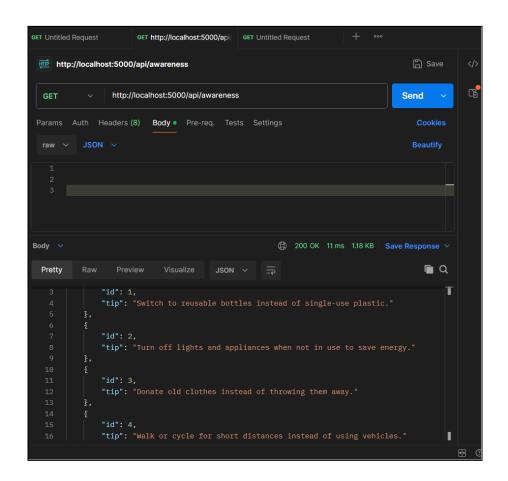
## **EXPERIMENT 4**

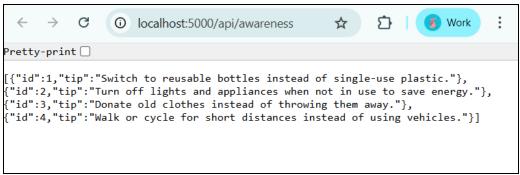
## **REST API Design with MongoDB + Mongoose Integration**

## CODE:

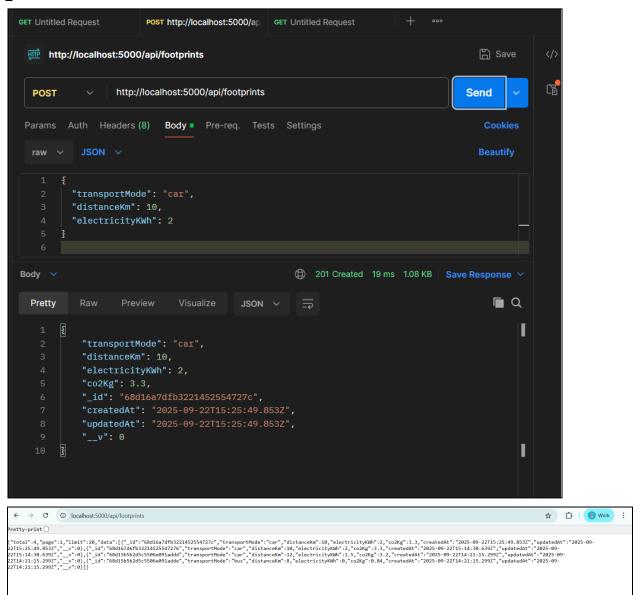
```
JS awarenessRoutes.js X JS db.js
                                       JS Footprint.js
                                                       JS Waterlog.js
                                                                        JS Recyclable.js
                                                                                          JS Donation.js
routes > JS awarenessRoutes.js > ...
      const express = require('express');
       const router = express.Router();
      // Sample sustainability awareness tips
       { id: 1, tip: "Switch to reusable bottles instead of single-use plastic." },
        { id: 2, tip: "Turn off lights and appliances when not in use to save energy." },
        { id: 3, tip: "Donate old clothes instead of throwing them away." },
        { id: 4, tip: "Walk or cycle for short distances instead of using vehicles." },
      router.get('/', (req, res) => {
       res.json(tips);
       router.get('/:id', (req, res) => {
        const tip = tips.find(t => t.id === parseInt(req.params.id));
         return res.status(404).json({ message: "Tip not found" });
        res.json(tip);
       module.exports = router;
```

## **OUTPUT**:

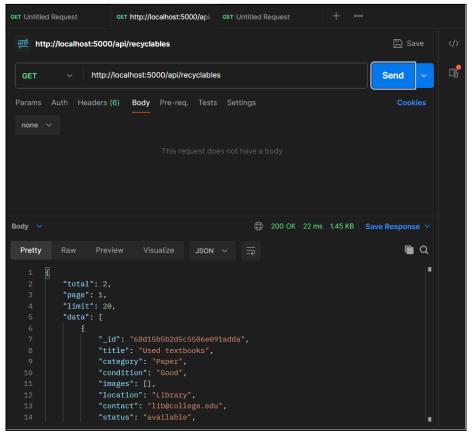




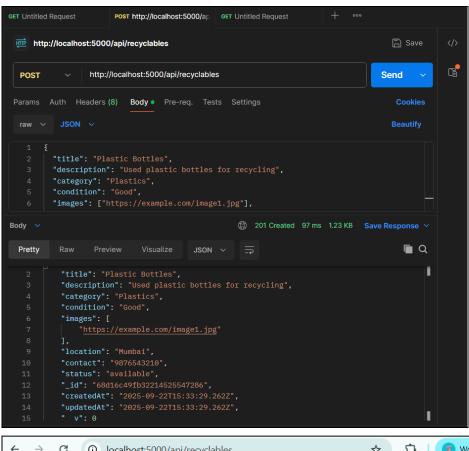
Awareness Tips (GET)



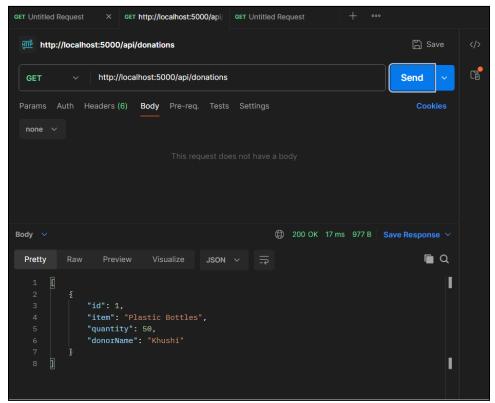
Carbon Footprint (POST)



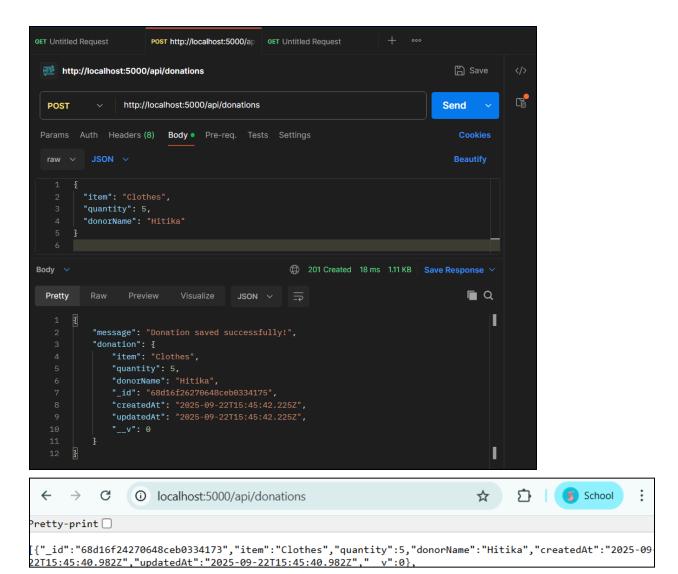
Recyclables (GET)



Recyclables (POST)







Donations (GET + POST)