

## CSE471 : System Analysis and Design Lab Assignment on API Development and Postman

Project Title: AbroadEase

**Group Number: 05** 

**Backend Framework: MERN** 

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Section: 02

Date: 08.08.2025

#### Instruction:

- 1. You have to develop all the REST APIs/Endpoints of two features (which interfaces you have submitted in the Figma assignment) of your project using your preferred backend framework. Database should be connected.
- 2. This is an individual submission. The developed APIs can not be duplicated among group members.
- 3. Add a code snippet for each API.
- 4. Run a backend server on a specific port. The port number should be the last four digits of your student id.

Test your developed API in Postman. Add a screenshot for each API.

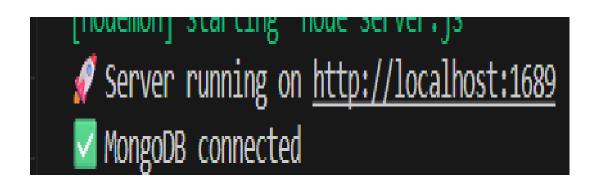
### **APIs of Feature - 01**

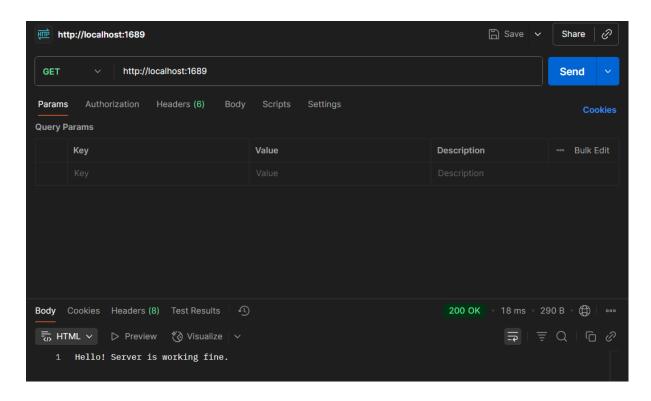
# Module 2: Post guidelines and filtering: Feature-4:

Admin will be able to write posts regarding SOP instructions.

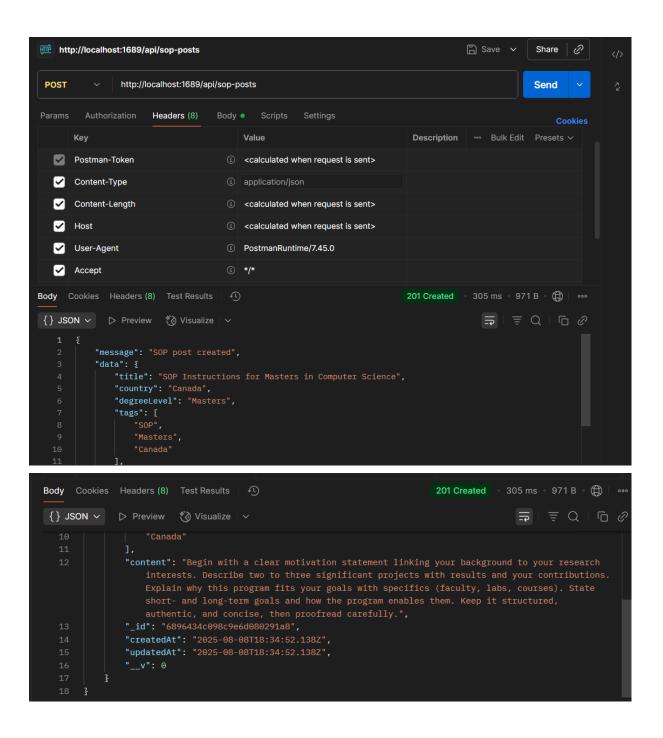
\* Last 4 digits of my student ID- 1689

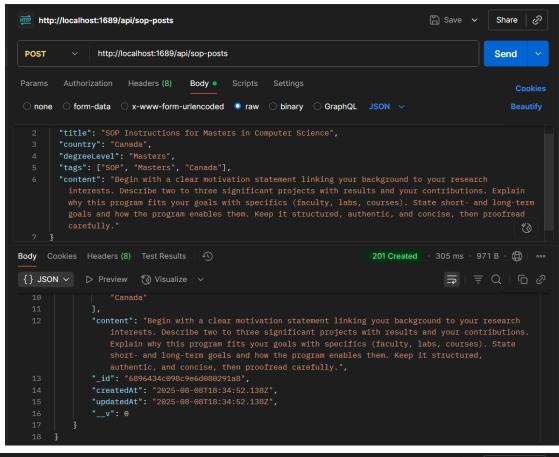
#### **Screenshots:**

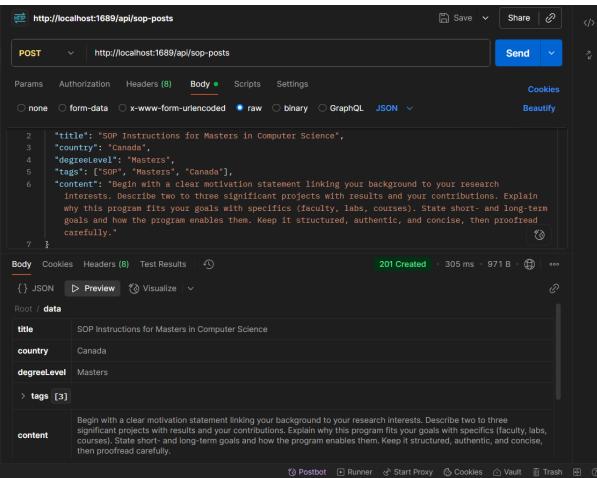




```
JS server.js > ...
      require('dotenv').config();
      const express = require('express');
      const mongoose = require('mongoose');
      const cors = require('cors');
      const morgan = require('morgan');
      const app = express();
      const PORT = process.env.PORT || 1689;
      const MONGO URI = process.env.MONGODB URI;
      app.use(express.json());
      app.use(cors());
      app.use(morgan('dev'));
      mongoose
        .connect(MONGO_URI, { autoIndex: true })
        .then(() => console.log(' ✓ MongoDB connected'))
        .catch((err) => {
          console.error('X MongoDB connection error:', err.message);
          process.exit(1);
```







### **APIs of Feature - 02**

# Module 3: Housing: Feature-2:

Detailed Property Information: Each listing includes property photos, descriptions, rental terms, and amenities for better decision-making.

```
routes > JS propertyRoutes.js > ...

1    const express = require('express');

2    const router = express.Router();

3    const {

4        getAllProperties,
        getPropertyById,
        createProperty,
        updateProperty

9    } = require('../controllers/propertyController');

10

11    // Get all properties
    router.get('/', getAllProperties);

13

14    // Get property by ID
    router.get('/:id', getPropertyById);

16

17    // Create new property
    router.post('/', createProperty);

19

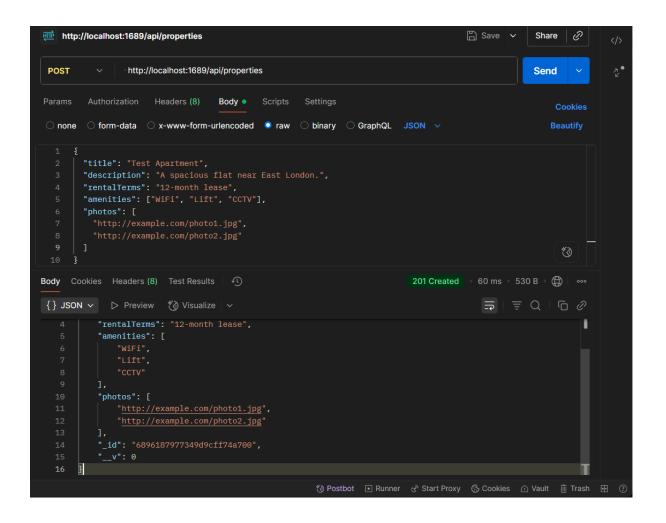
20    // Update property
    router.put('/:id', updateProperty);

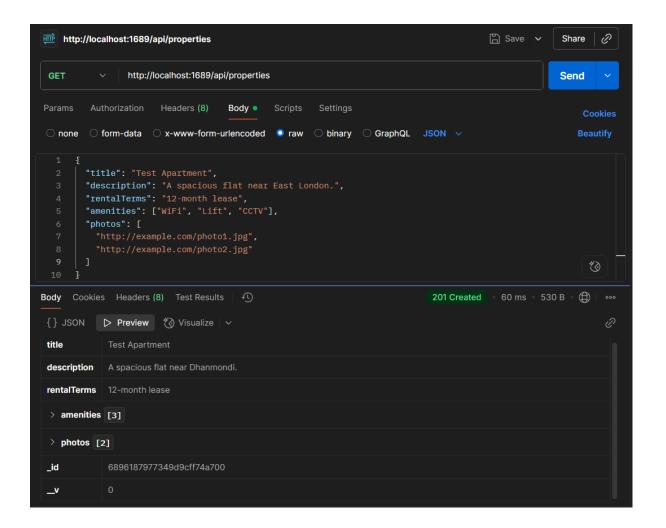
21    // Delete property
    router.delete('/:id', deleteProperty);

22    // Delete property
    router.delete('/:id', deleteProperty);

23    // Delete property
    router.delete('/:id', deleteProperty);

24    module.exports = router;
```





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