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Sem: 5 Batch: 51 Branch: CBA

Sub: Microservices

Practical 5

AIM: www.abc.com website owner wants to manage user's records in JSON files. Save visitor details like name, password, id, occupation, etc.

Admin wants to perform the following task on that file:

- 1. list out all users.
- 2. Add a new user with said detail
- 3. Create Rest API to work with JSON covering the following endpoints:

/user/add- to add a new user(Check if any data is missing in the request or the user that you are trying to add already exists).

/user/list- To get the list of all the existing users in the file

/user/update/:username- To update the user's data by finding the user using the name and do it through the patch method. (Check if the user exists or not).

/user/delete/:username- delete the user with the help of username(Check if the user exists or not).

GITHUB LINK:

https://github.com/Shivam3783/microservice_practicals/tree/main/prac5

CODE: 1)

```
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                 EXPLORER
Ф
              ∨ OPEN EDITORS
                                                                                             const express = require('express');
const fs = require('fs');
                            {} users.json... U

☐ Untitled-1
              ∨ MICRO SERVICES
                                                                                             app.use(express.json());
                                                                                              var port = 8080;
                  > demo_npmjs
H
                  > demo_test
                                                                                             let userData = require('./users.json');
> prac2
                                                                                             app.post('/user/add', (req, res) => {\bar{\bar{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\texi{\text{\texi\text{\\tin\text{\texi{\texi}\\ \text{\texi}\text{\text{\text{\text{\texi{\text{\text{\ti
(
                                                                                                   if(!name || !password || !id || !occupation) {
  return res.status(400).send('Missing required fields');
                    {} package-lock.... U
                                                                                                   if(userData.find(u => u.name === name)) {
 439
ن
  •
                                                                                                       password,
                                                                                                   fs.writeFileSync('./users.json', JSON.stringify(userData));
                                                                                                   res.send('User added successfully');
              OUTLINE
              > TIMELINE
                > MYSQL

∠ Micro Services

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C
                                                                            prac5 > Js index.js > 🕤 app.post('/user/add') callback

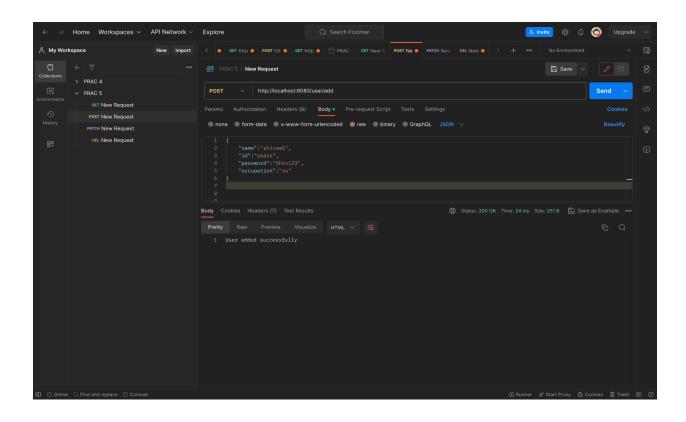
∨ OPEN EDITORS

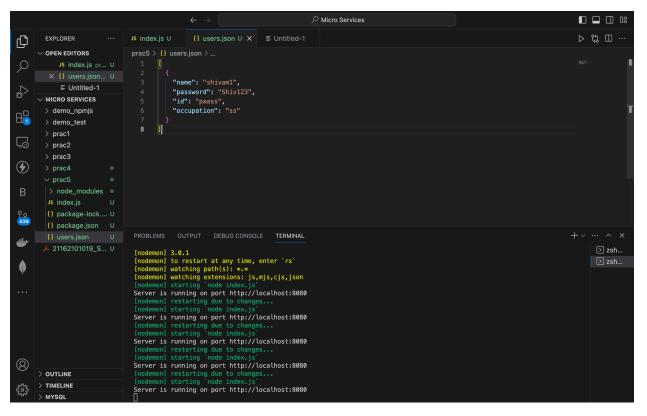
                                                                                             app.patch('/user/update/:name', (req, res) => {

    Untitled-1

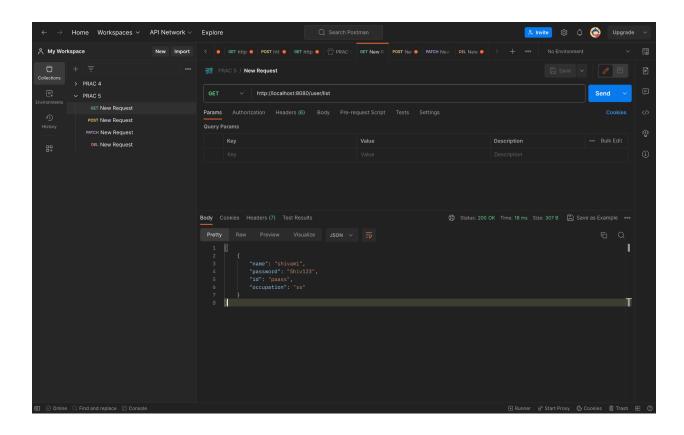
$
                                                                                                        const name = req.params.name;
const update = req.body;
              ∨ MICRO SERVICES
                  > demo_npmjs
                  > demo_test
                  > prac1
                                                                                                        return res.status(404).send('User not found');
 (
                  ∨ prac5
                                                                                                        fs.writeFileSync('./users.json', JSON.stringify(userData));
                    {} package-lock.... U
                    {} package.json U
ىنت
                                                                                              app.delete('/user/delete/:name', (req, res) => {
  •
                                                                                                   const index = userData.findIndex(u => u.name === name);
                                                                                                  return res.status(404).send('User not found');
}
                                                                                                   if(index === -1) {
                                                                                                   userData.splice(index, 1);
                                                                                                   fs.writeFileSync('./users.json', JSON.stringify(userData));
(2)
              OUTLINE
              > TIMELINE
```

OUTPUT in POSTMAN: → Add data (POST REQUEST)

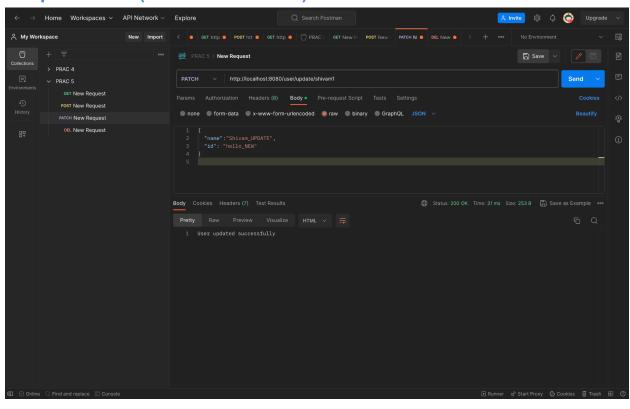


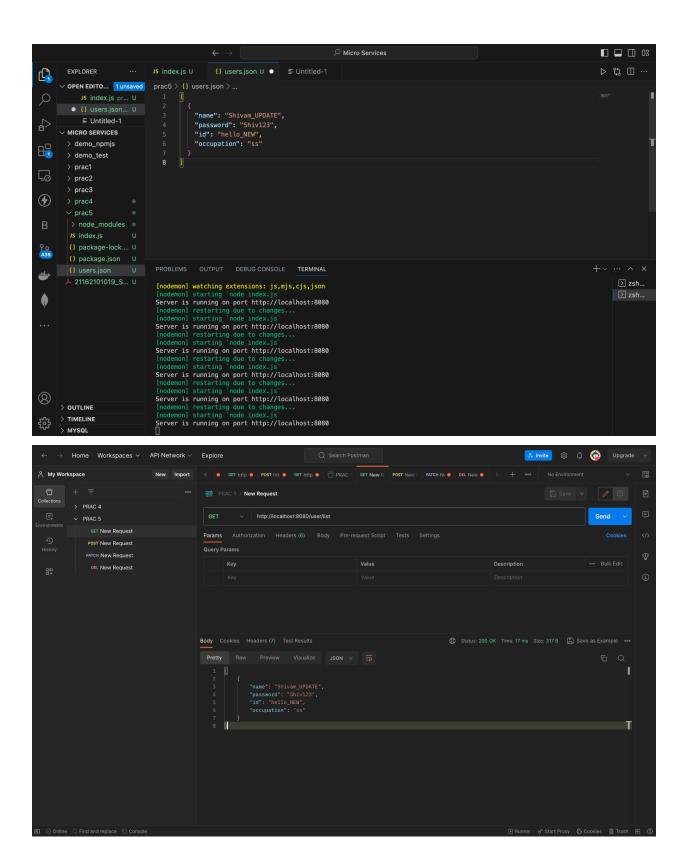


ightarrow GET data (GET REQUEST)



→ Update data (PATCH REQUEST)





→ Delete data (DELETE REQUEST)

