



### **Assignment4 Part 1**

#### Simple CRUD Operations Using Express.is:

⚠ For all the following tasks, you must use the fs module to read and write data from a JSON file (e.g., users.json). Do not store or manage data using arrays. (2 Grades)

- 1. Create an API that adds a new user to your users stored in a JSON file. (ensure that the email of the new user doesn't exist before)(2 Grades)
  - o **URL:** POST /user

- 2. Create an API that updates an existing user's name, age, or email by their ID. The user ID should be retrieved from the **params**. (1 Grade) *Note:* Remember to update the corresponding values in the JSON file
  - o **URL**: PATCH /user/:id

```
input output

{ "age": 30 }

{ "message": "User age updated successfully." }

/user/99

{ "message": "User ID not found." }
```

- 3. Create an API that deletes a User by ID. The user id should be retrieved from either the **request body or optional params. (1 Grade)** *Note:* Remember to delete the user from the file
  - o URL: DELETE /user{/:id}

```
input

/user/1

{ "message": "User deleted successfully." }

/user/99

{ "message": "User ID not found." }
```

- **4.** Create an API that gets a user by their name. The name will be provided as a **query parameter**. **(1 Grade)** 
  - o **URL:** GET /user/getByName

- 5. Create an API that gets all users from the JSON file. (1 Grade)
  - o **URL:** GET /user

```
input

output

[ { "id": 1, "name": "User 1", "age": 27, "email": "user@email.com" } ]
```

- 6. Create an API that filters users by minimum age. (1 Grade)
  - o **URL:** GET /user/filter







- 7. Create an API that gets User by ID. (1 Grade)
  - o **URL:** GET /user/:id
  - o Output:

```
input

/user/1

{ "id": 1, "name": "User 1", "age": 27, "email": "user@email.com" }

/user/99

{ "message": "User not found." }
```

# Important Notes about postman

- 1. Name the endpoint with a meaningful name like 'Add User', not dummy names.
- 2. Save your changes on each request( ctrl+s ).
- 3. Include the Postman collection link (export your Postman collection ) in the email with your assignment link

## Bonus (2 Grades)

#### **How to deliver the bonus?**

- 1- Solve the problem Longest Common Prefix on LeetCode
- 2- Inside your assignment folder, create a **SEPARATE FILE** and name it "bonus.js"
- 3- Copy the code that you have submitted on the website inside "bonus.js" file