Express.js Assignment

Guidelines:

i. ***This assignment is mandatory for everyone***

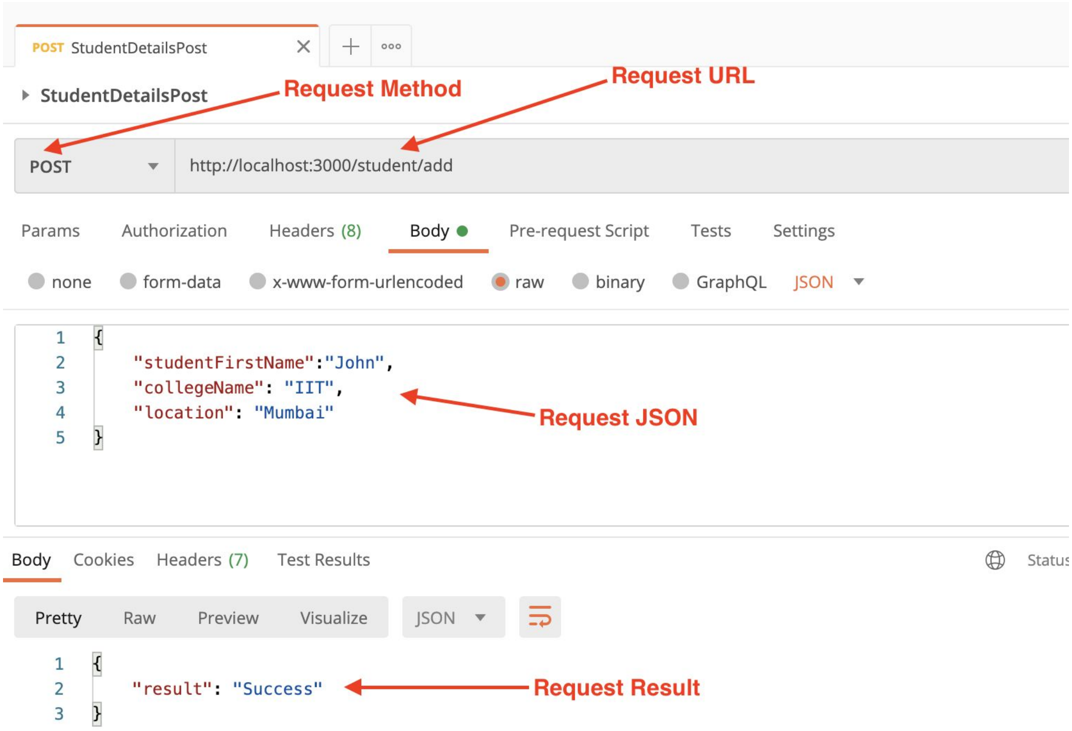
ii. *There will only be a single attempt for each exam and* ***no deadline extension in case of assignments***

iii. *Any case of unfair means or* ***plagiarism would lead to debarring*** *in final placements without any further consideration.*

iv. The assignment solutions should be uploaded on Github and links to Github repositories should be shared with the coach for code review. Make sure to add appropriate comments in code wherever possible.

Problem 1:

Build an API to create and retrieve college student details



http://localhost:3000/student/add

```
{
    "studentFirstName":"John",
    "collegeName": "IIT",
    "location": "Mumbai"
}
```

```
{
    "result": "Success"
}
```

Request URL:- *http://localhost:3000/student/add*

Request Method:- POST

Request JSON:-

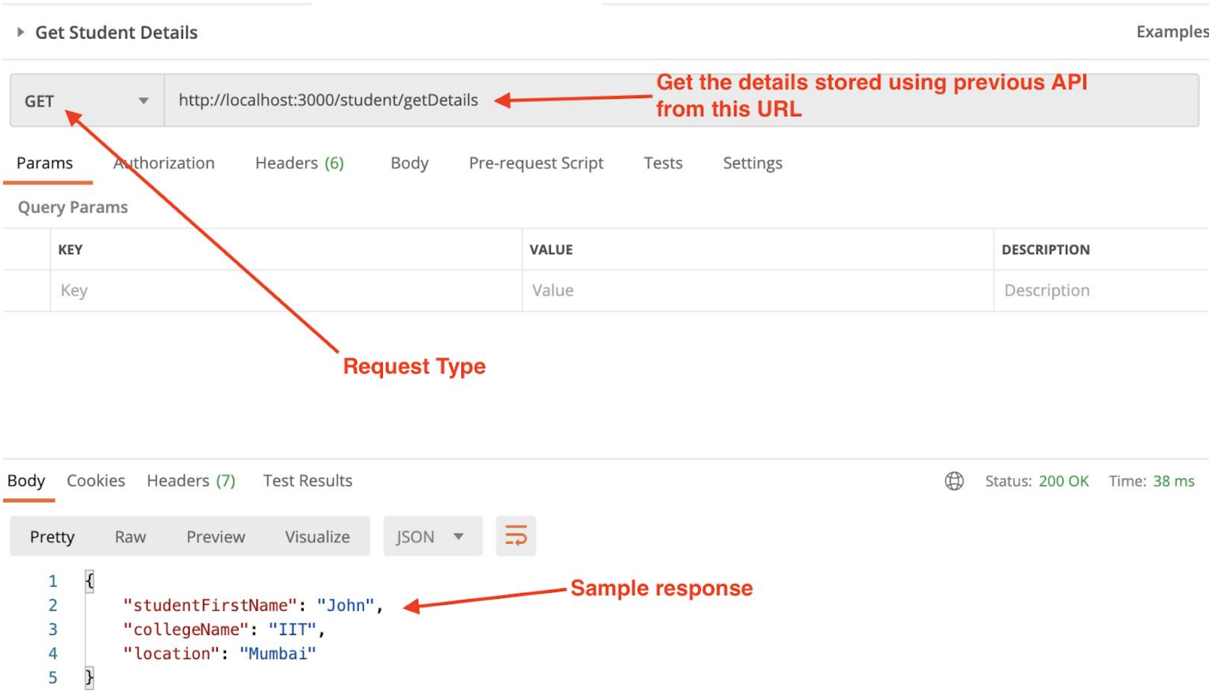
```
{
   "studentFirstName":"John",
   "collegeName": "IIT",
   "location": "Mumbai"
}
```

Response JSON:-

```
{
    "result": "Success"
}
```

Objective:-

1. Build an API which accepts the above parameters as a POST request using express.js
2. Use Node.js fs module to store the received details JSON in a file. You can refer to the link below for the process:-
https://www.geeksforgeeks.org/how-to-read-and-write-json-file-using-node-js/
3. Build a second API/route with which the stored details are sent back to client as shown below:-



http://localhost:3000/student/getDetails

Get the details stored using previous API from this URL

Request Type

```
{
    "studentFirstName": "John",
    "collegeName": "IIT",
    "location": "Mumbai"
}
```

Sample response

Request URL:- *http://localhost:3000/student/getDetails*

Request Method:- GET

Response JSON:-

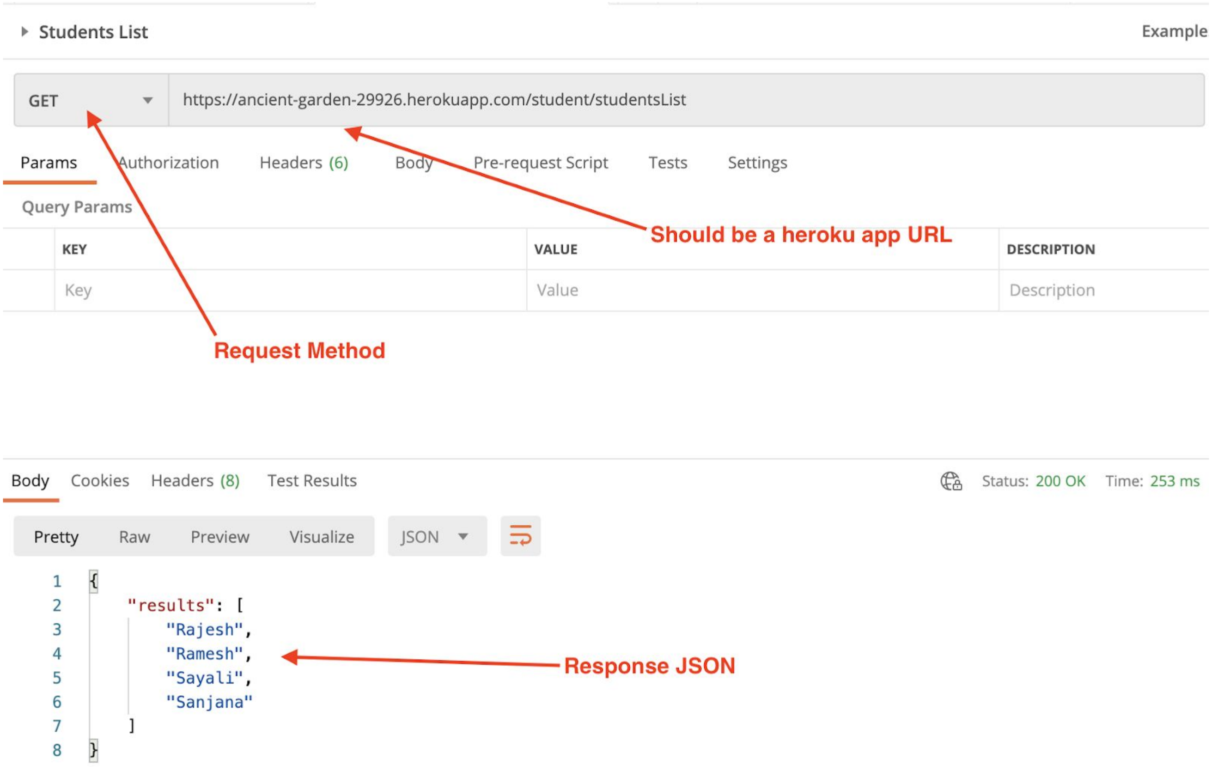
```
{
   "studentFirstName":"John",
   "collegeName": "IIT",
   "location": "Mumbai"
}
```

Learnings:

How to make APIs using express.js.

Problem 2:

Create an API using express.js and deploy it to Heroku



GET https://ancient-garden-29926.herokuapp.com/student/studentsList

Should be a heroku app URL

Request Method

Status: 200 OK Time: 253 ms

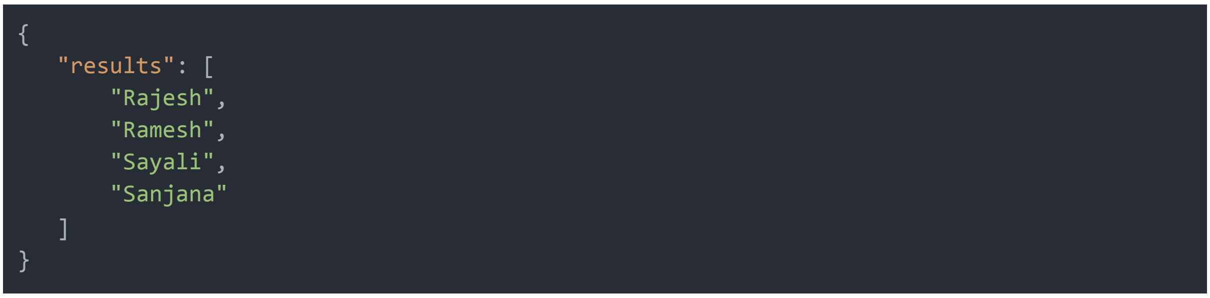
```
{
    "results": [
        "Rajesh",
        "Ramesh",
        "Sayali",
        "Sanjana"
    ]
}
```

Response JSON

Request URL:- https://[Heroku-Base-URL]/student/studentsList

Request Method:- GET

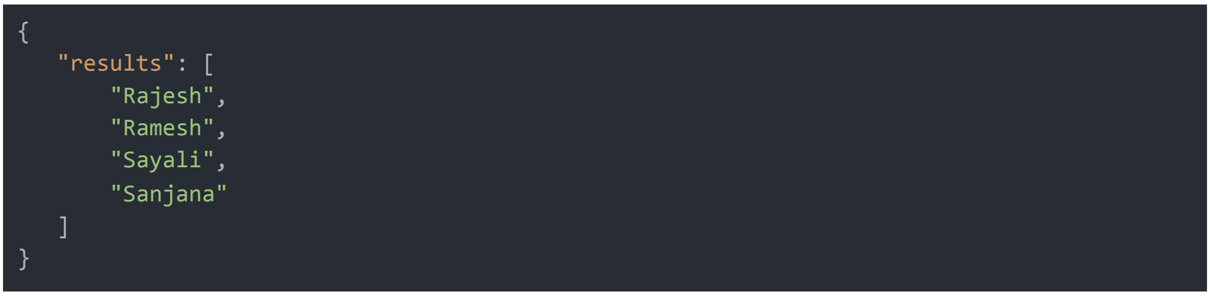
Response:-



```
{
   "results": [
       "Rajesh",
       "Ramesh",
       "Sayali",
       "Sanjana"
   ]
}
```

Objective:-

1. Create an API using express.js on your machine which return the below response:-



```
{
   "results": [
       "Rajesh",
       "Ramesh",
       "Sayali",
       "Sanjana"
   ]
}
```

2. Create an account on Heroku:-
   https://www.heroku.com/
3. Install Heroku CLI on your machine
   https://devcenter.heroku.com/articles/heroku-cli
4. Deploy your API to Heroku using below guide:
   https://devcenter.heroku.com/articles/deploying-nodejs
5. Share the Heroku URL and github repo of the project

Learnings

How to deploy an API on a server.