

# **MongoDB 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 repository links 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 add and retrieve college student details from a database

#### Steps:

- 1. Create a connection with local or remote Mongo database
- 2. Build a model in express.js for student details
  The model should have following parameters of type string:name, collegeName, location
- 3. Next build a route as shown below and write logic to add student details sent from API into MongoDB database

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

Request Method:- POST

Request JSON:-

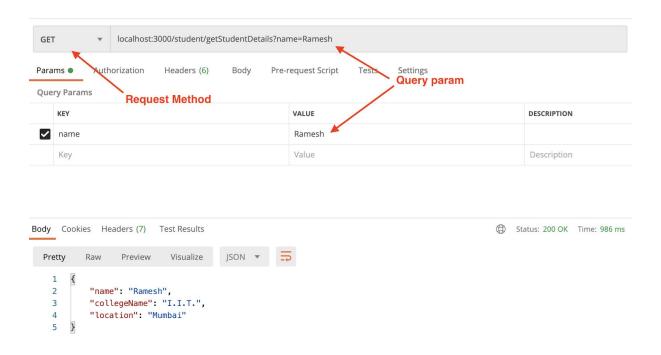
```
{
    "studentFirstName":"Ramesh",
    "collegeName": "IIT",
    "location": "Mumbai"
}
```



Response JSON:-

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

4. Once student details are saved to database, build another API which can be used to get stored student details based on student name as shown below:-



Request URL:- localhost:3000/student/getStudentDetails?name=Ramesh

Request Method:- GET

Query Param:- name



## Response JSON:-

```
{
   "name": "Ramesh",
   "collegeName": "I.I.T.",
   "location": "Mumbai"
}
```

# Learnings:

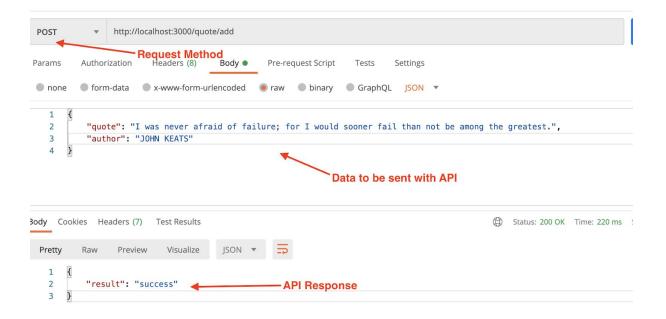
How to make connection to mongodb database using express.js

## **Problem 2:**

Build a quotes generation API

## Steps:

- 1. Create a connection with local or remote Mongo database
- 2. Build a model in express.js for quotes details
  The model should have following parameters of type *string*:quote, author
- 3. Next build a API route as shown below and write logic to add a quote sent from API below into MongoDB database





Request URL:- http://localhost:3000/quote/add

Request Method:- POST

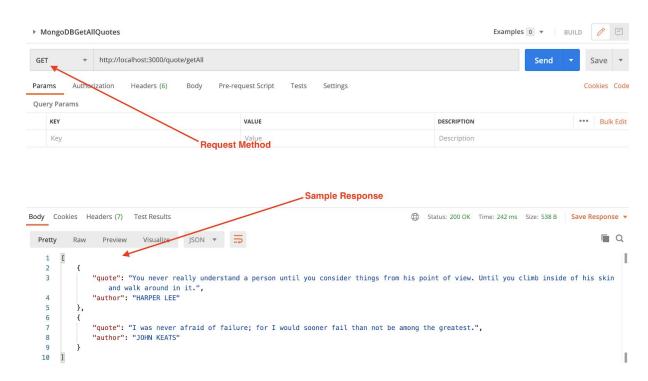
Request JSON:-

```
{
    "quote": "I was never afraid of failure; for I would sooner fail than not be among
the greatest.",
    "author": "JOHN KEATS"
}
```

## Response:-

```
{
    "result": "success"
}
```

4. Once quote details are saved to database, build another API which can be used to get all the saved quotes as shown below:-



Request URL:- http://localhost:3000/quote/getAll

Request Method:- GET



# Sample Response JSON:-

# Learnings

How to create APIs with database connection in express.js

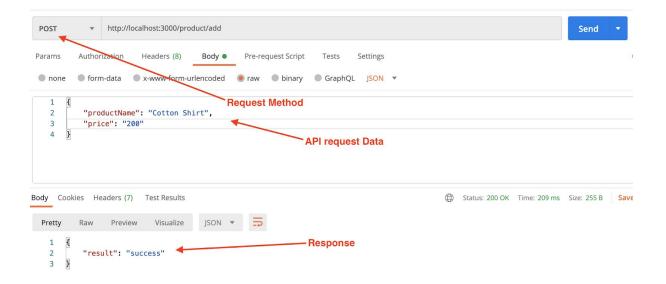
## **Problem 3:**

Build a product details API

# Steps:

- 1. Create a connection with local or remote Mongo database
- Build a model in express.js for quotes details
   The model should have following parameters of type string:-productName, price
- 3. Next build a route shown below and write logic to add a product detail sent from API into MongoDB database





Request URL:- http://localhost:3000/product/add

Request Method:- POST

Request JSON:-

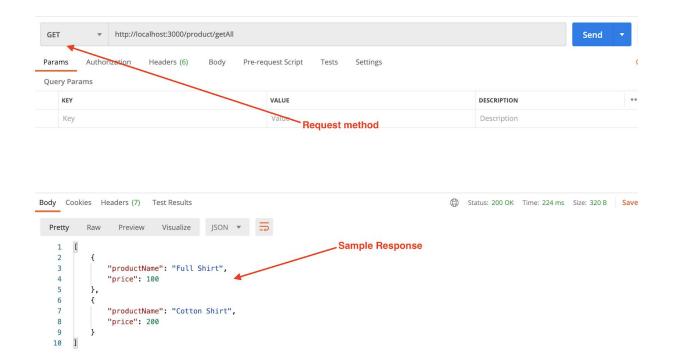
```
{
    "productName": "Cotton Shirt",
    "price": "200"
}
```

Response:-

```
{
    "result": "success"
}
```

5. Once product details are saved to database, build another API which can be used to get all the saved products as shown below:-





Request URL:- http://localhost:3000/product/getAll

Request Method:- GET

Sample Response JSON:-

# Learnings

How to create APIs with database connection in express.js