

Subject Management Micro-service

Sep 20, 2021

Developer

Harsh Mange

Technologies	1
Technologies	1
External packages	1
REST APIs	2
Class Diagram	3
Database Model Snapshot	4
Staff	4
Subject	4
Output Snapshots	5

Languages

HTML

CSS

JavaScript

Technologies

Node.Js

MongoDB

Express.Js

External packages

`'Body-parser', 'dateformat'`

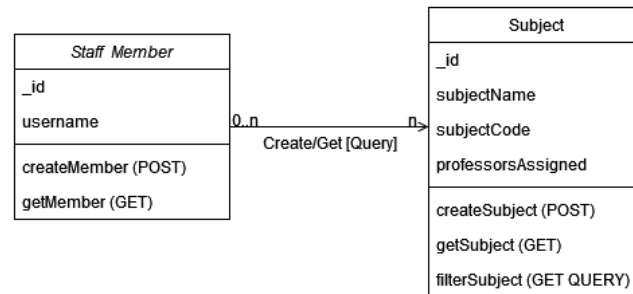
REST APIs

- Create Staff Member: POST /api/staffmembers (Parse info using body-parser)
- Create Subject: POST /api/staffmembers/:username/subjects (Parse info using body-parser)
- Get Subject with queries: GET
/api/staffmembers/:_id?[sub_name][&sub_code][&prof_name]

[] = optional & **sub_name** = subject name **sub_code** = subject code **prof_name** = professor name

I.e./api/staffmembers/harshmange?prof_name=ABCD&sub_code=MAT100

Class Diagram



Database Model Snapshot

Staff

staffs
subjects

FILTER { field: 'value' }

<

QUERY RESULTS 1-1 OF 1

```
_id: ObjectId("61486fc75e43050362a7326e")
username: "harshmange"
__v: 0
```

Subject

staffs
subjects

FILTER { field: 'value' }

<

QUERY RESULTS 1-1 OF 1

```
_id: ObjectId("614870fb6065dc03e84f9ade")
createdAt: 2021-09-20T11:30:50.980+00:00
subjectname: "Maths"
subjectcode: "MAT100"
professorname: "ABCD"
__v: 0
```

Output Snapshots

1. Homepage

Subject Manager

Create a Staff Member

`POST /api/staffmembers`

Add Subjects

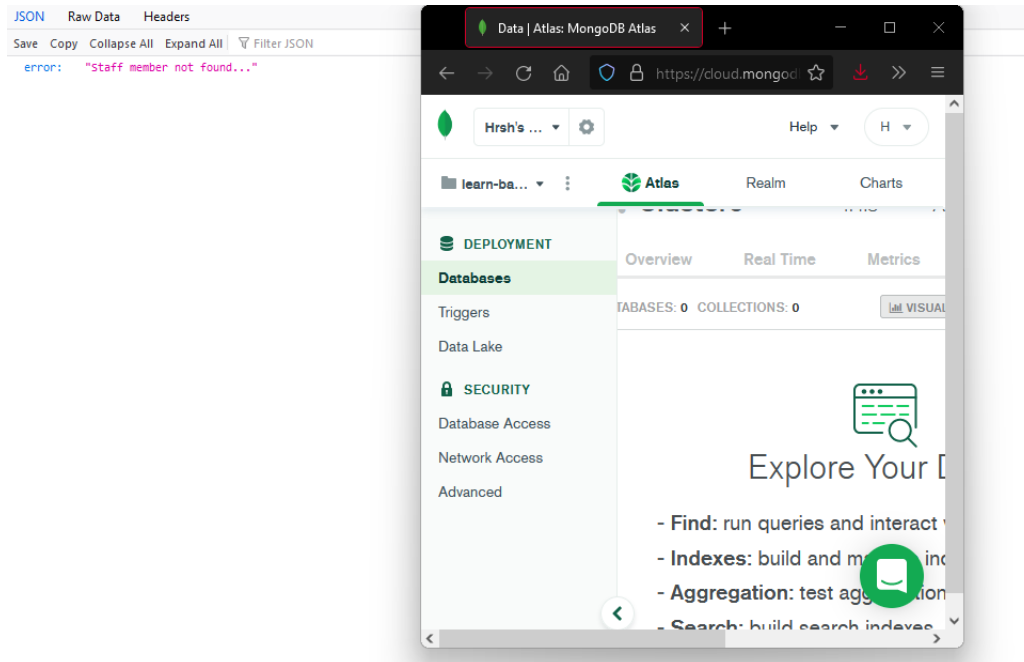
`POST /api/staffmembers/:username/subjects`

GET subjects: `GET /api/staffmembers/:_id?[sub_name][&sub_code][&prof_name]`

[] = optional

sub_name = subject name **sub_code** = subject code **prof_name** = professor name

2. Staff auth not found

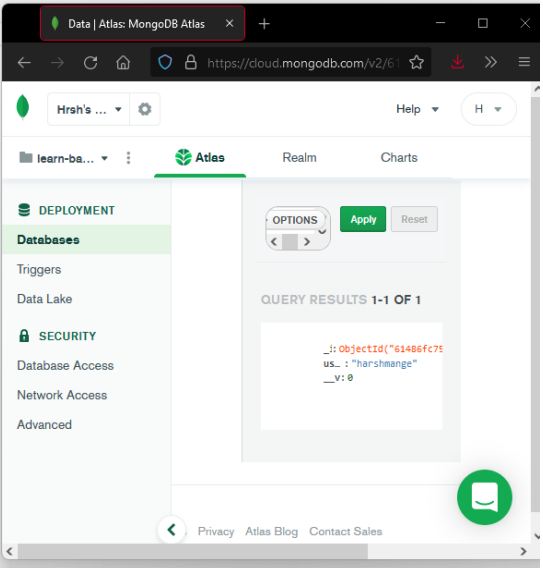


3. Staff member created

JSON	Raw Data	Headers
Save Copy Collapse All Expand All Filter JSON		
<pre>{ "_id": "61486fc75e43050362a7326e", "username": "harshmange" }</pre>		

4. Staff auth found subject created

JSON	Raw Data	Headers
Save Copy Collapse All Expand All Filter JSON		
<pre>{ "subjectname": "Maths", "subjectcode": "MAT100", "professorname": "ABCD", "createdAt": "Mon Sep 20 2021" }</pre>		



5. Get subject by sub name & prof name

JSON	Raw Data	Headers
Save Copy Collapse All Expand All Filter JSON		
<pre>{ "createdAt": "2021-09-20T11:30:50.980Z", "_id": "614870fb6065dc03e84f9ade", "subjectname": "Maths", "subjectcode": "MAT100", "professorname": "ABCD", "__v": 0 }</pre>		