Flask RESTFul API Documentation

**Assignment Name:** Visualization Dashboard Assignment

**Description:** Introducing our Visualization Dashboard REST API: Seamlessly integrating **Angular 9.1.11** for the frontend and **Flask 2.3.2** for the backend, with **MySQL** database support. Delivering intuitive data visualization solutions for actionable insights and informed decision-making.

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*If you have any questions or need support with the Visualization Dashboard REST API, please contact me.*

***EndPoint-1***

# End Year Filter

Returns array of array data.

## URL

/dashboard/end-year/{value}

### Method:

GET

* **URL Path Variable Required:** value=[integer]

### Success Response:

* + **Code:** 200
  + **Content:** [[..], [..],[..]]

### Error Response:

* + **Code:** 404 NOT FOUND
  + **Content:** {"timestamp": "DATETIMESTAMP", "message": "No data found with endyear: [value]", "details": "uri=/dashboard/end-year"}

### Sample Call:

fetch('https://localhost:5000/dashboard/end-year/2023')

.then(response => response.json())

.then(data => { console.log(data);

})

.catch(error => { console.error(error);

});

*EndPoint-2*

# Topic Filter

Returns array of array data.

## URL

/dashboard/topic/?keyword={value}

### Method:

GET

### URL Params Required:

topic=[string]

### Success Response:

– **Code:** 200 **Content:** [{..}, {..}, {..}]

### Error Response:

* + **Code:** 404 NOT FOUND
  + **Content:** {"timestamp": "DATETIMESTAMP", "message": "No data found with filter: [value]", "details": "uri=/dashboard/filter"}

### Sample Call:

fetch('https://localhost:5000/dashboard/topic?keyword=travel')

.then(response => response.json())

.then(data => { console.log(data);

})

.catch(error => { console.error(error);

});

# Sector Filter

Returns json data about a single user.

## URL

/dashboard/sector/?keyword={value}

### Method:

GET

### URL Params Required:

value=[string]

### Success Response:

– **Code:** 200 **Content:** [{..}, {..}, {..}]

### Error Response:

* + **Code:** 404 NOT FOUND
  + **Content:** {"timestamp": "DATETIMESTAMP", "message": "No data found with sector: [value]", "details": "uri=/dashboard/sector"}

### Sample Call:

fetch('https://localhost:5000/dashboard/sector?keyword=Pharmaceuticals')

.then(response => response.json())

.then(data => { console.log(data);

})

.catch(error => { console.error(error);

});

# Region Filter

Returns array of array data.

## URL

/dashboard/region?keyword={value}

### Method:

GET

### URL Params Required:

value=[string]

### Success Response:

– **Code:** 200 **Content:** [{..}, {..}, {..}]

### Error Response:

* + **Code:** 404 NOT FOUND
  + **Content:** {"timestamp": "DATETIMESTAMP", "message": "No data found with region: [value]", "details": "uri=/dashboard/region"}

### Sample Call:

fetch('https://localhost:5000/dashboard/region?keyword = Asia')

.then(response => response.json())

.then(data => { console.log(data);

})

.catch(error => { console.error(error);

});

# Pestle Filter

Returns array of array data.

## URL

/dashboard/pestle?keyword={value}

### Method:

GET

### URL Params Required:

id=[string]

### Success Response:

– **Code:** 200 **Content:** [{..}, {..}, {..}]

### Error Response:

* + **Code:** 404 NOT FOUND
  + **Content:** {"timestamp": "DATETIMESTAMP", "message": "No data found with pestle: [value]", "details": "uri=/dashboard/prestle"}

### Sample Call:

fetch('https://localhost:5000/dashboard/pestle?keyword=Healthcare')

.then(response => response.json())

.then(data => { console.log(data);

})

.catch(error => { console.error(error);

});

# Source Filter

Returns array array json data.

## URL

/dashboard/source?keyword={value}

### Method:

GET

### URL Params Required:

value=[string]

### Success Response:

– **Code:** 200 **Content:** [{..}, {..}, {..}]

### Error Response:

* + **Code:** 404 NOT FOUND
  + **Content:** {"timestamp": "DATETIMESTAMP", "message": "No data found with source: [value]", "details": "uri=/dashboard/source"}

### Sample Call:

fetch('https://localhost:5000/dashboard/source?keyword=infosysblogs')

.then(response => response.json())

.then(data => { console.log(data);

})

.catch(error => { console.error(error);

});

# Swot Filter

Returns array of array data.

## URL

/dashboard/swot/keyword={value}

### Method:

GET

### URL Params Required:

value=[integer]

### Success Response:

– **Code:** 200 **Content:** [{..}, {..}, {..}]

### Error Response:

* + **Code:** 404 NOT FOUND
  + **Content:** {"timestamp": "DATETIMESTAMP", "message": "No data found with swot: [value]", "details": "uri=/dashboard/swot"}

### Sample Call:

fetch('https://localhost:5000/dashboard/swot?keyword=Strength')

.then(response => response.json())

.then(data => { console.log(data);

})

.catch(error => { console.error(error);

});

# Country Filter

Returns array of array data.

## URL

/dashboard/country?keyword={value}

### Method:

GET

### URL Params Required:

id=[integer]

### Success Response:

– **Code:** 200 **Content:** [{..}, {..}, {..}]

### Error Response:

* + **Code:** 404 NOT FOUND
  + **Content:** {"timestamp": "DATETIMESTAMP", "message": "No data found with country: [value]", "details": "uri=/dashboard/country"}

### Sample Call:

fetch('https://localhost:5000/dashboard/country?keyword=India)

.then(response => response.json())

.then(data => { console.log(data);

})

.catch(error => { console.error(error);

});

*EndPoint-9*

# City Filter

Returns array of array data.

## URL

/dashboard/topic/?keyword={value}

### Method:

GET

### URL Params Required:

id=[integer]

### Success Response:

– **Code:** 200 **Content:** [{..}, {..}, {..}]

### Error Response:

* + **Code:** 404 NOT FOUND
  + **Content:** {"timestamp": "DATETIMESTAMP", "message": "No data found with city: [value]", "details": "uri=/dashboard/city"}

### Sample Call:

fetch('https://localhost:5000/dashboard/city?keyword=lucknow')

.then(response => response.json())

.then(data => { console.log(data);

})

.catch(error => { console.error(error);

});