



MODERN TOPICS IN INFORMATION TECHNOLOGY

MTIT – 017

Information Technology Assignment

03 - Microservices

Student ID	Student Name
IT20241346	Semini J.P.D.L.
IT20146238	Jayathunga T.M.
IT20129712	Godakanda P.G.S.
IT20254520	Bhagya H.D.M.

➤ What is Microservices?

- Microservices is an architectural style for developing software applications that emphasizes breaking down a large application into small, independent, and loosely coupled services that work together to form the complete application. Each service is designed to perform a specific function and communicates with other services through well-defined APIs.
- In a microservices architecture, each service can be developed, deployed, and maintained independently of the others, allowing for greater agility and scalability. This approach also allows for the use of different programming languages, frameworks, and technologies within each service, if they can communicate with each other through their APIs.
- Overall, microservices architecture is often favored for its ability to increase flexibility, improve fault tolerance, and accelerate development cycles. However, it also adds complexity and requires careful planning and management to ensure effective coordination between services.


➤ **Domain -Sports Items Store**

- ❑ A Sports Items Store could use a microservices architecture to break down its application into smaller, more manageable services that work together to form a complete system. The platform can consist of microservices that handle various parts of the sports item store, such as Store Services, Manager Services ,Supply Management, Transport Management

➤ Need of the API Gateway for Microservices

- ❑ **Routing:** An API Gateway can act as a router for incoming requests, directing them to the appropriate microservice based on the endpoint or URL. This allows clients to access different microservices through a single endpoint, simplifying the overall architecture.
- ❑ **Load Balancing:** An API Gateway can also distribute incoming requests to multiple instances of a microservice, helping to balance the load and improve performance.
- ❑ **Service Discovery:** An API Gateway can use service discovery mechanisms to locate the appropriate microservice instance to handle a given request. This helps to ensure that requests are always directed to a healthy and available instance of the microservice.
- ❑ **Security:** An API Gateway can handle security concerns such as authentication and authorization. It can authenticate the client making the request and authorize access to the requested microservice. This helps to ensure that only authorized clients can access the microservices and protects against unauthorized access.
- ❑ **Protocol Translation:** An API Gateway can handle protocol translation, converting requests from one protocol to another. For example, it can translate a request from HTTP to gRPC or WebSocket. This allows clients to use different protocols to access the microservices without requiring the microservices themselves to support multiple protocols.

❖ IT20146238 – Jayathunga T.M. – Supplier Microservice

 Swagger
Supported by SMARTBEAR

Select a definition Sliit.MTIT.Supplier v1

Sliit.MTIT.Supplier 1.0 OAS3

<http://localhost:5104/swagger/v1/swagger.json>

Supplier ^

GET

/api/Supplier

✓

POST

/api/Supplier

✓

PUT

/api/Supplier

✓

GET

/api/Supplier/{id}

✓

DELETE

/api/Supplier/{id}

✓

WeatherForecast ✓

Schemas ^

Supplier >

WeatherForecast >

➤ Supplier GET Method

GET

/api/Supplier

Cancel

Parameters

No parameters

ExecuteClear

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:5141/api/Supplier' \
  -H 'accept: */*'

```

Request URL

```
http://localhost:5141/api/Supplier

```

Server response

Code

Details

200

Response body

```
{
  "id": 1,
  "supplierName": "Thirosh",
  "sportItemName": "Cricket Bat",
  "sportItemPrice": 12324
},
{
  "id": 2,
  "supplierName": "Sachini",
  "sportItemName": "Basket Ball",
  "sportItemPrice": 4223
},
{
  "id": 3,
  "supplierName": "Kasuni",
  "sportItemName": "Swimming Kit",
  "sportItemPrice": 4522
},
{
  "id": 4,
  "supplierName": "Apsara",
  "sportItemName": "Leather Bat",
  "sportItemPrice": 13321
},
}
```

➤ Supplier POST Method

POST

/api/Supplier

Parameters

Cancel

Reset

No parameters

Request body

application/json

```
{
  "id": 6,
  "supplierName": "Nadun",
  "sportItemName": "FootBall",
  "sportItemPrice": 8000
}
```

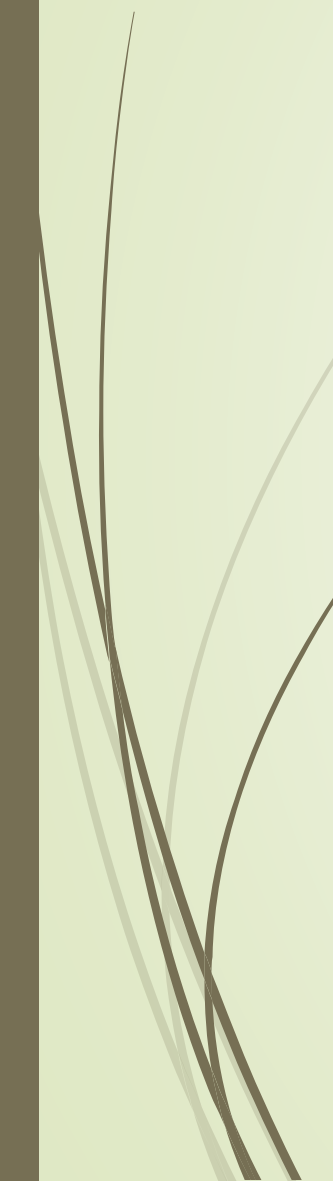
Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:5141/api/Supplier' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": 6,
    "supplierName": "Nadun",
    "sportItemName": "FootBall",
    "sportItemPrice": 8000
  }'
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
'http://localhost:5141/api/Supplier' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "id": 6,
  "supplierName": "Nadun",
  "sportItemName": "FootBall",
  "sportItemPrice": 8000
}'
```

Request URL

```
http://localhost:5141/api/Supplier
```

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "id": 6, "supplierName": "Nadun", "sportItemName": "FootBall", "sportItemPrice": 8000 }</pre></div><div><div>Download</div></div></div> <div><div>Response headers</div><div><pre>content-type: application/json; charset=utf-8 date: Tue, 18 Apr 2023 21:37:13 GMT server: Kestrel transfer-encoding: chunked</pre></div></div>

Responses

Code	Description	Links
200	Success	No links

➤ Supplier PUT Method

PUT

/api/Supplier

⌵

Parameters

Cancel

Reset

No parameters

Request body

application/json

⌵

```
{
  "id": 6,
  "supplierName": "Sudari",
  "sportItemName": "NetBall",
  "sportItemPrice": 9000
}
```

Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
'http://localhost:5141/api/Supplier' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "id": 6,
  "supplierName": "Sudari",
  "sportItemName": "NetBall",
  "sportItemPrice": 9000
}'
```

Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
'http://localhost:5141/api/Supplier' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "id": 6,
  "supplierName": "Sudari",
  "sportItemName": "NetBall",
  "sportItemPrice": 9000
}'
```

Request URL

http://localhost:5141/api/Supplier

Server response

Code Details

200

Response body

```
{
  "id": 6,
  "supplierName": "Sudari",
  "sportItemName": "NetBall",
  "sportItemPrice": 9000
}
```



Download

Response headers

```
content-type: application/json; charset=utf-8
date: Tue, 18 Apr 2023 21:40:40 GMT
server: Kestrel
transfer-encoding: chunked
```

Responses

Code Description

Links

200

Success

No links

➤ Supplier Search ID GET Method

GET

/api/Supplier/{id}

⌵

Parameters

Cancel


Name	Description
id * required	
integer(\$int32)	5
(path)	

Execute

Clear

Responses


Curl

curl -X 'GET' \
'http://localhost:5141/api/Supplier/5' \
-H 'accept: */*' 

Request URL

http://localhost:5141/api/Supplier/5

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "id": 5, "supplierName": "Nethuki", "sportItemName": "Hockey Ball", "sportItemPrice": 4528 }</pre><div> Download</div></div><div><div>Response headers</div><div><pre>content-type: application/json; charset=utf-8 date: Tue, 18 Apr 2023 21:42:03 GMT server: Kestrel transfer-encoding: chunked</pre></div></div></div>

➤ Supplier DELETE Method

DELETE /api/Supplier/{id}

Parameters

Cancel

Name	Description
id * required	
integer(\$int32)	6
(path)	

Execute

Clear

Responses

Curl

```
curl -X 'DELETE' \
'http://localhost:5141/api/Supplier/6' \
-H 'accept: */*'
```

Request URL

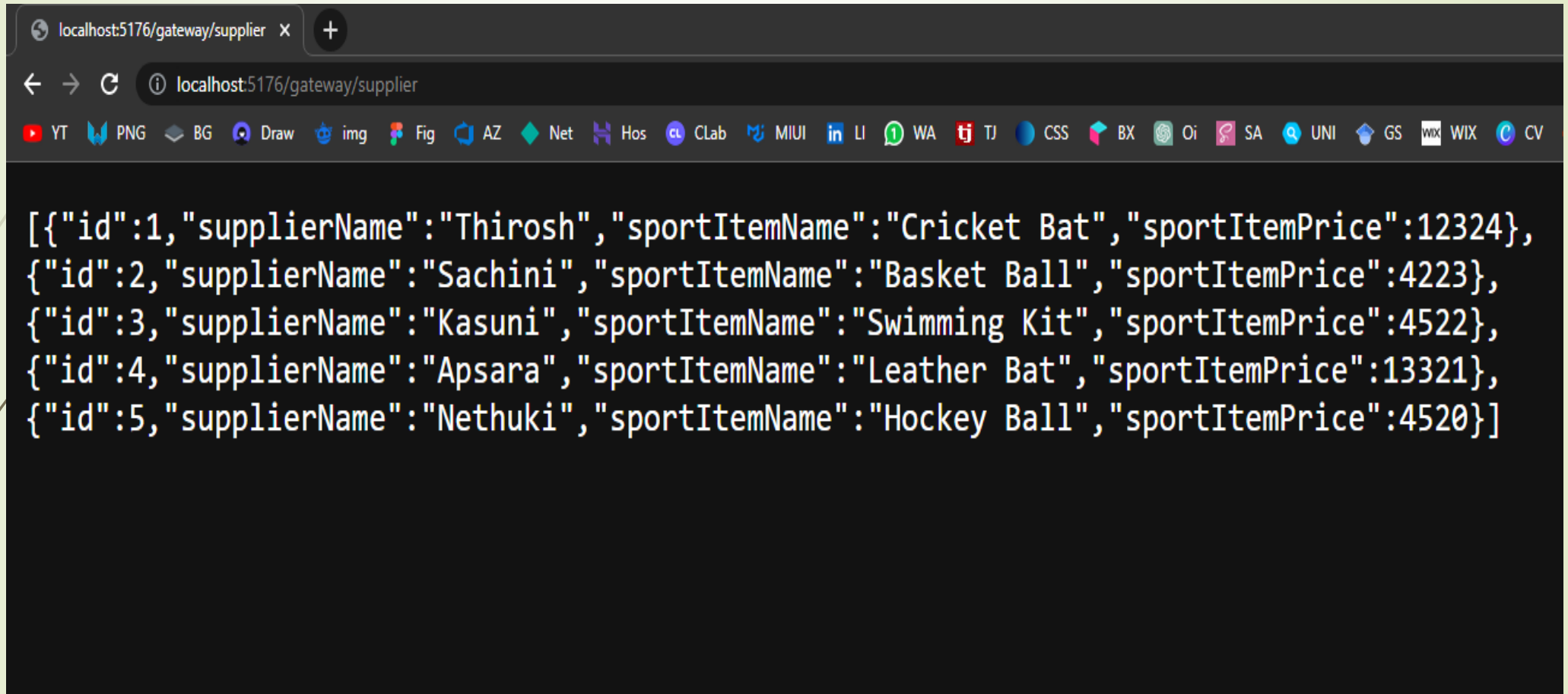
```
http://localhost:5141/api/Supplier/6
```

Server response

Code	Details
200	<div><div>Response body</div><div>supplier with ID:6 got deleted successfully.</div><div><div>Download</div></div></div> <div><div>Response headers</div><div>content-type: text/plain; charset=utf-8 date: Tue, 18 Apr 2023 21:42:59 GMT server: Kestrel transfer-encoding: chunked</div></div>

Responses

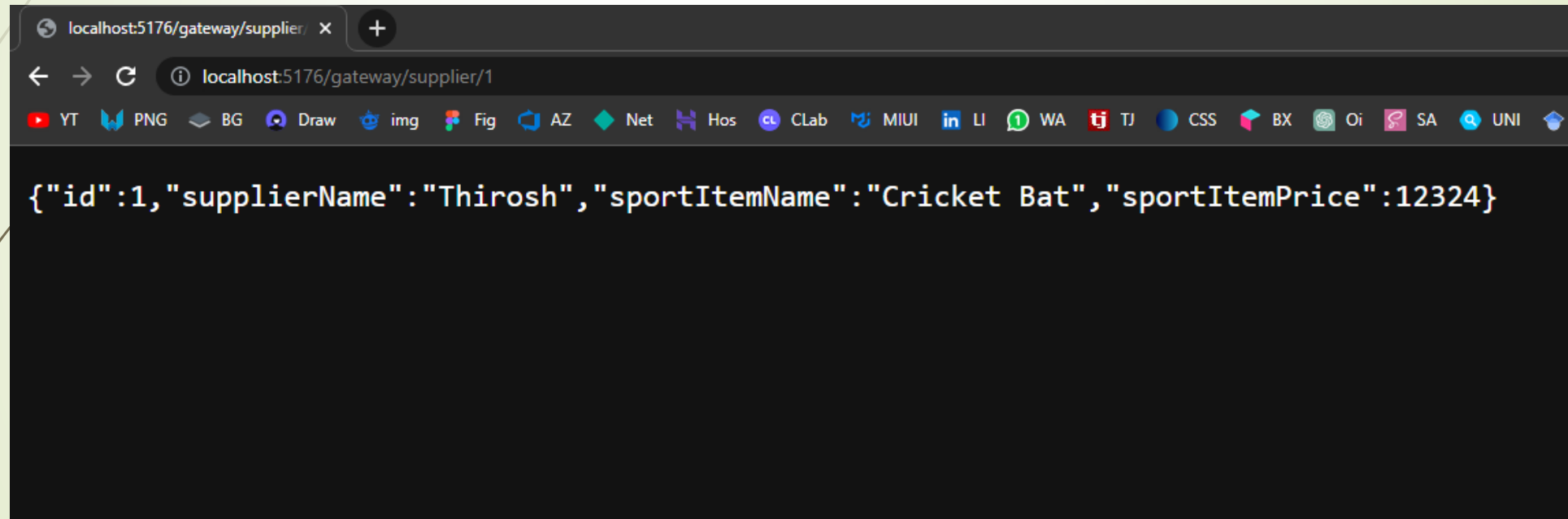
➤ Supplier Up Stream URL in Browser



A screenshot of a web browser window. The address bar shows the URL `localhost:5176/gateway/supplier`. The browser's toolbar includes various icons for social media and development tools. The main content area displays a JSON array of five objects, each representing a supplier item with its ID, supplier name, sport item name, and price.

```
[{"id":1,"supplierName":"Thirosh","sportItemName":"Cricket Bat","sportItemPrice":12324}, {"id":2,"supplierName":"Sachini","sportItemName":"Basket Ball","sportItemPrice":4223}, {"id":3,"supplierName":"Kasuni","sportItemName":"Swimming Kit","sportItemPrice":4522}, {"id":4,"supplierName":"Apsara","sportItemName":"Leather Bat","sportItemPrice":13321}, {"id":5,"supplierName":"Nethuki","sportItemName":"Hockey Ball","sportItemPrice":4520}]
```

➤ Supplier Up Stream URL in Browser



❖ IT20241346 – Semini J.P.D.L.– Manager Microservice

Swagger
Supported by SMARTBEAR

Select a definition Sliit.MTIT.Manager v1 <https://sc>

Sliit.MTIT.Manager ^{1.0} OAS3

<http://localhost:5291/swagger/v1/swagger.json>

Manager ^

GET	/api/Manager	▼
POST	/api/Manager	▼
PUT	/api/Manager	▼
GET	/api/Manager/{id}	▼
DELETE	/api/Manager/{id}	▼

WeatherForecast ^

GET	/WeatherForecast	▼
-----	------------------	---

Schemas ^

- Manager >
- WeatherForecast >

➤ Manager POST Method

POST

/api/Manager

^

Parameters

Cancel

Reset

No parameters

Request body

application/json

{
 "id": 6,
 "managerName": "Dulan",
 "branchName": "TDSM 6",
 "location": "Nugegoda"
}

Execute

Clear

Responses

Curl

```
curl -X 'POST' \  
  'http://localhost:5141/api/Manager' \  
  -H 'accept: */*' \  
  -H 'Content-Type: application/json' \  
  -d '{  
    "id": 6,  
    "managerName": "Dulan",  
    "branchName": "TDSM 6",  
    "location": "Nugegoda"  
  }'
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:5141/api/Manager' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": 6,
    "managerName": "Dulan",
    "branchName": "TDSM 6",
    "location": "Nugegoda"
  }'
```



Request URL

http://localhost:5141/api/Manager

Server response

Code	Details
------	---------

200

Response body

```
{
  "id": 6,
  "managerName": "Dulan",
  "branchName": "TDSM 6",
  "location": "Nugegoda"
}
```



Download

Response headers

```
content-type: application/json; charset=utf-8
date: Tue, 18 Apr 2023 20:02:59 GMT
server: Kestrel
transfer-encoding: chunked
```

Responses

Code	Description
------	-------------

200

Success

Links

No links

Manager PUT Method

PUT

/api/Manager

^

Parameters

Cancel

Reset

No parameters

Request body

application/json

```
{
  "id": 6,
  "managerName": "Lokisha",
  "branchName": "TDSM 6",
  "location": "Gampaha"
}
```

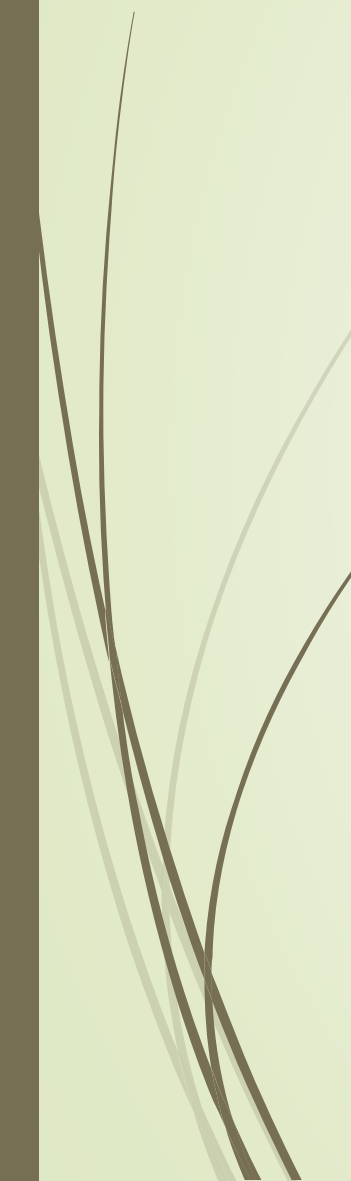
Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
'http://localhost:5141/api/Manager' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "id": 6,
  "managerName": "Lokisha",
  "branchName": "TDSM 6",
  "location": "Gampaha"
}'
```



Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
  'http://localhost:5141/api/Manager' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": 6,
    "managerName": "Lokisha",
    "branchName": "TDSM 6",
    "location": "Gampaha"
  }'
```

Request URL

http://localhost:5141/api/Manager

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "id": 6, "managerName": "Lokisha", "branchName": "TDSM 6", "location": "Gampaha" }</pre></div><div><div>Download</div></div></div> <div><div>Response headers</div><div><pre>content-type: application/json; charset=utf-8 date: Tue, 18 Apr 2023 20:06:16 GMT server: Kestrel transfer-encoding: chunked</pre></div></div>

Responses

Code	Description	Links
200	Success	No links

➤ Manager Search ID GET Method

GET

/api/Manager/{id}

⌵

Parameters

Cancel


Name	Description
id * required	
integer(\$int32)	6
(path)	

Execute

Clear

Responses


Curl

curl -X 'GET' \
'http://localhost:5141/api/Manager/6' \
-H 'accept: */*' 

Request URL

http://localhost:5141/api/Manager/6

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "id": 6, "managerName": "Lokisha", "branchName": "TDSM 6", "location": "Gampaha" }</pre><div> Download</div></div><div><div>Response headers</div><div><pre>content-type: application/json; charset=utf-8 date: Tue, 18 Apr 2023 20:07:36 GMT server: Kestrel transfer-encoding: chunked</pre></div></div></div>

Manager DELETE Method

DELETE /api/Manager/{id}

Parameters

Cancel

Name	Description
id * required	
integer(\$int32)	6
(path)	

Execute

Clear

Responses

Curl

```
curl -X 'DELETE' \
'http://localhost:5141/api/Manager/6' \
-H 'accept: */*'
```

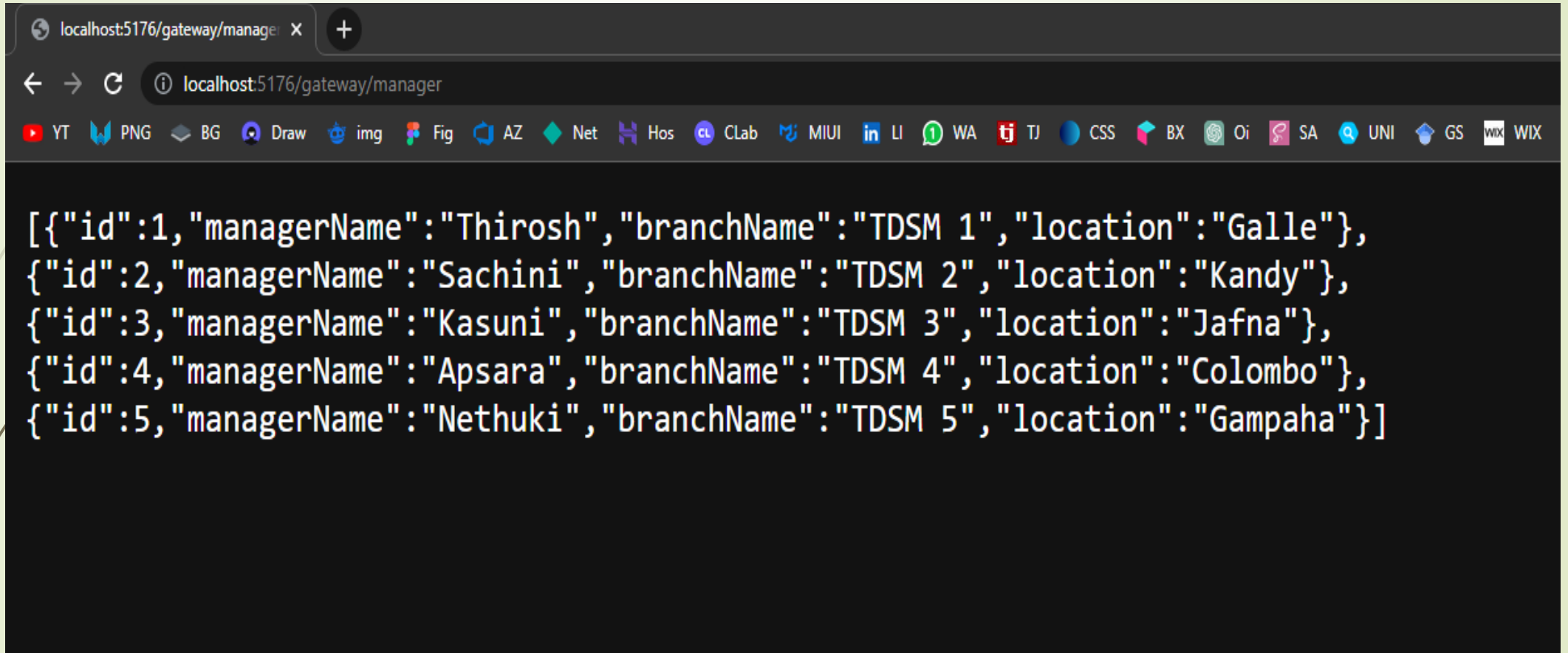
Request URL

```
http://localhost:5141/api/Manager/6
```

Server response

Code	Details
200	<div><div>Response body</div><div>manager with ID:6 got deleted successfully.</div><div><div>Download</div></div></div> <div><div>Response headers</div><div>content-type: text/plain; charset=utf-8 date: Tue, 18 Apr 2023 20:09:35 GMT server: Kestrel transfer-encoding: chunked</div></div>

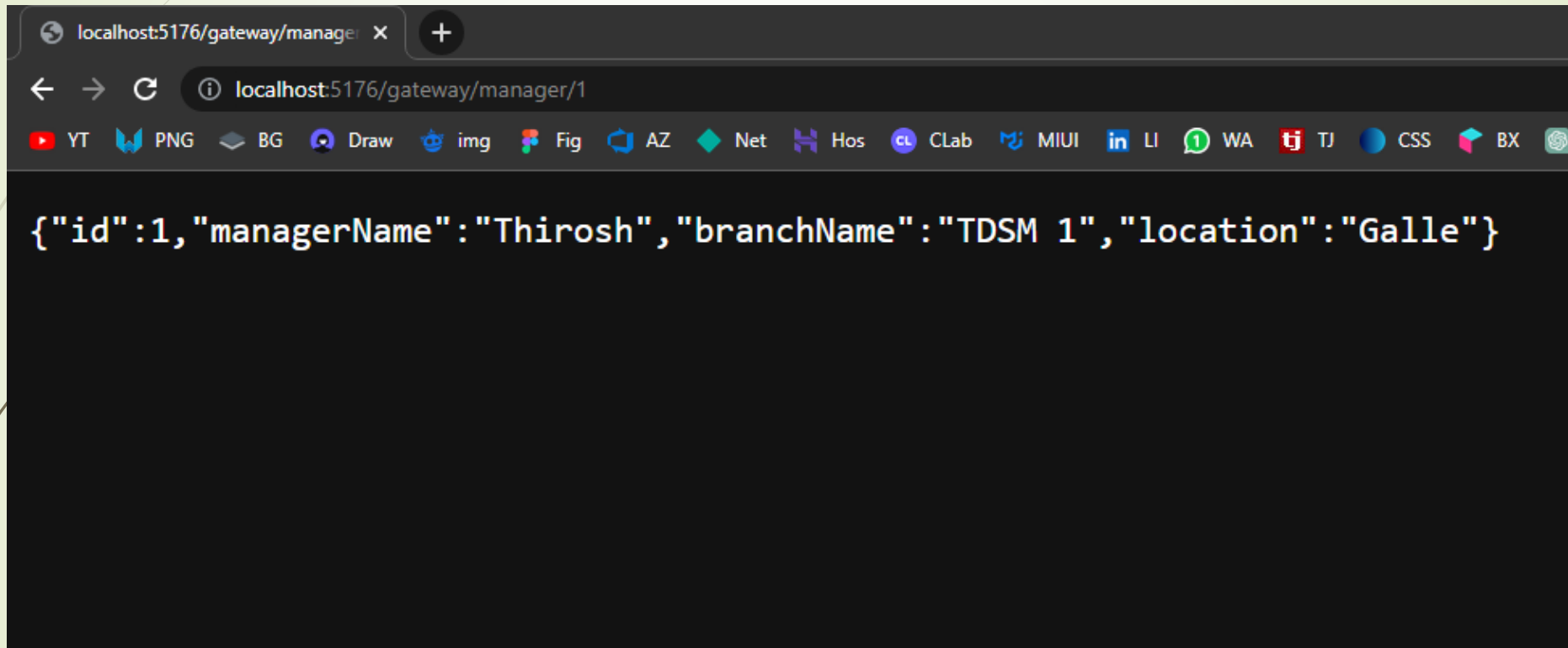
Manager Up Stream URL in Browser




A screenshot of a web browser window. The address bar shows the URL `localhost:5176/gateway/manager`. The browser's toolbar includes various icons for social media and productivity tools. The main content area displays a JSON array of five objects, each representing a manager with their ID, name, branch, and location.

```
[{"id":1,"managerName":"Thirosh","branchName":"TDSM 1","location":"Galle"}, {"id":2,"managerName":"Sachini","branchName":"TDSM 2","location":"Kandy"}, {"id":3,"managerName":"Kasuni","branchName":"TDSM 3","location":"Jafna"}, {"id":4,"managerName":"Apsara","branchName":"TDSM 4","location":"Colombo"}, {"id":5,"managerName":"Nethuki","branchName":"TDSM 5","location":"Gampaha"}]
```


➤ Manager Up Stream URL in Browser



❖ IT20254520 – Bhagya H.D.M. - Store Microservice

 Swagger
Supported by SMARTBEAR

Select a definition Sliit.MTIT.Store v1

Sliit.MTIT.Store ^{1.0} ^{OAS3}

<http://localhost:5290/swagger/v1/swagger.json>

Store

GET

/api/Store

⌵

POST

/api/Store

⌵

PUT

/api/Store

⌵

GET

/api/Store/{id}

⌵

DELETE

/api/Store/{id}

⌵

WeatherForecast

GET

/WeatherForecast

⌵

Schemas

Store >

WeatherForecast >

➤ Store GET Method

Store

GET /api/Store

Parameters

No parameters

Execute Clear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:5290/api/Store' \
-H 'accept: */*'
```

Request URL

```
http://localhost:5290/api/Store
```

Server response

Code	Details
200	<div>Response body</div> <pre>[{ "id": 1, "storeName": "Store 1", "itemName": "Cricket Items", "itemQuantity": 240 }, { "id": 2, "storeName": "Store 2", "itemName": "Football Items", "itemQuantity": 523 }, { "id": 3, "storeName": "Store 3", "itemName": "Rugby Items", "itemQuantity": 622 }, { "id": 4, "storeName": "Store 4", "itemName": "Swimming Items", </pre>

➤ Store POST Method

POST

/api/Store

⌵

Parameters

Cancel

Reset

No parameters

Request body

application/json

⌵

```
{
  "id": 6,
  "storeName": "Store 6",
  "itemName": "Tennis Bat",
  "itemQuantity": 150
}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:5290/api/Store' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": 6,
    "storeName": "Store 6",
    "itemName": "Tennis Bat",
    "itemQuantity": 150
  }'
```

Request URL

http://localhost:5290/api/Store

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:5290/api/Store' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": 6,
    "storeName": "Store 6",
    "itemName": "Tennis Bat",
    "itemQuantity": 150
  }'
```

Request URL

http://localhost:5290/api/Store

Server response

Code Details

200

Response body

```
{
  "id": 6,
  "storeName": "Store 6",
  "itemName": "Tennis Bat",
  "itemQuantity": 150
}
```



Download

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 19 Apr 2023 16:06:48 GMT
server: Kestrel
transfer-encoding: chunked
```

Responses

Code Description

Links

200

Success

No links

Store PUT Method

PUT /api/Store

Parameters

Cancel

Reset

No parameters

Request body

application/json

```
{
  "id": 4,
  "storeName": "Store 4",
  "itemName": "Tennis Ball",
  "itemQuantity": 600
}
```

Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
  'http://localhost:5290/api/Store' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": 4,
    "storeName": "Store 4",
    "itemName": "Tennis Ball",
    "itemQuantity": 600
  }'
```

Request URL

```
http://localhost:5290/api/Store
```

Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
  'http://localhost:5290/api/Store' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": 4,
    "storeName": "Store 4",
    "itemName": "Tennis Ball",
    "itemQuantity": 600
  }'
```

Request URL

http://localhost:5290/api/Store

Server response

Code Details

200

Response body

```
{
  "id": 4,
  "storeName": "Store 4",
  "itemName": "Tennis Ball",
  "itemQuantity": 600
}
```



Download

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 19 Apr 2023 16:08:26 GMT
server: Kestrel
transfer-encoding: chunked
```

Responses

Code Description

Links

200

Success

No links

➤ Store Search ID GET Method

GET

/api/Store/{id}

⌵

Parameters

Cancel

Name	Description
id * required	
integer(\$int32)	3
(path)	

Execute

Clear

Responses

Curl

```
curl -X 'GET' \  
'http://localhost:5290/api/Store/3' \  
-H 'accept: */*'
```

Request URL

```
http://localhost:5290/api/Store/3
```

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "id": 3, "storeName": "Store 3", "itemName": "Rugby Items", "itemQuantity": 622 }</pre></div><div>Download</div></div> <div><div>Response headers</div><div><pre>content-type: application/json; charset=utf-8 date: Wed, 19 Apr 2023 16:09:29 GMT server: Kestrel transfer-encoding: chunked</pre></div></div>

Responses

Code	Description
------	-------------

Links

Store DELETE Method

DELETE

/api/Store/{id}

Parameters


Cancel

Name	Description
id * required	
integer(\$int32)	6
(path)	

ExecuteClear

Responses


Curl

curl -X 'DELETE' \
'http://localhost:5290/api/Store/6' \
-H 'accept: */*' 

Request URL

http://localhost:5290/api/Store/6

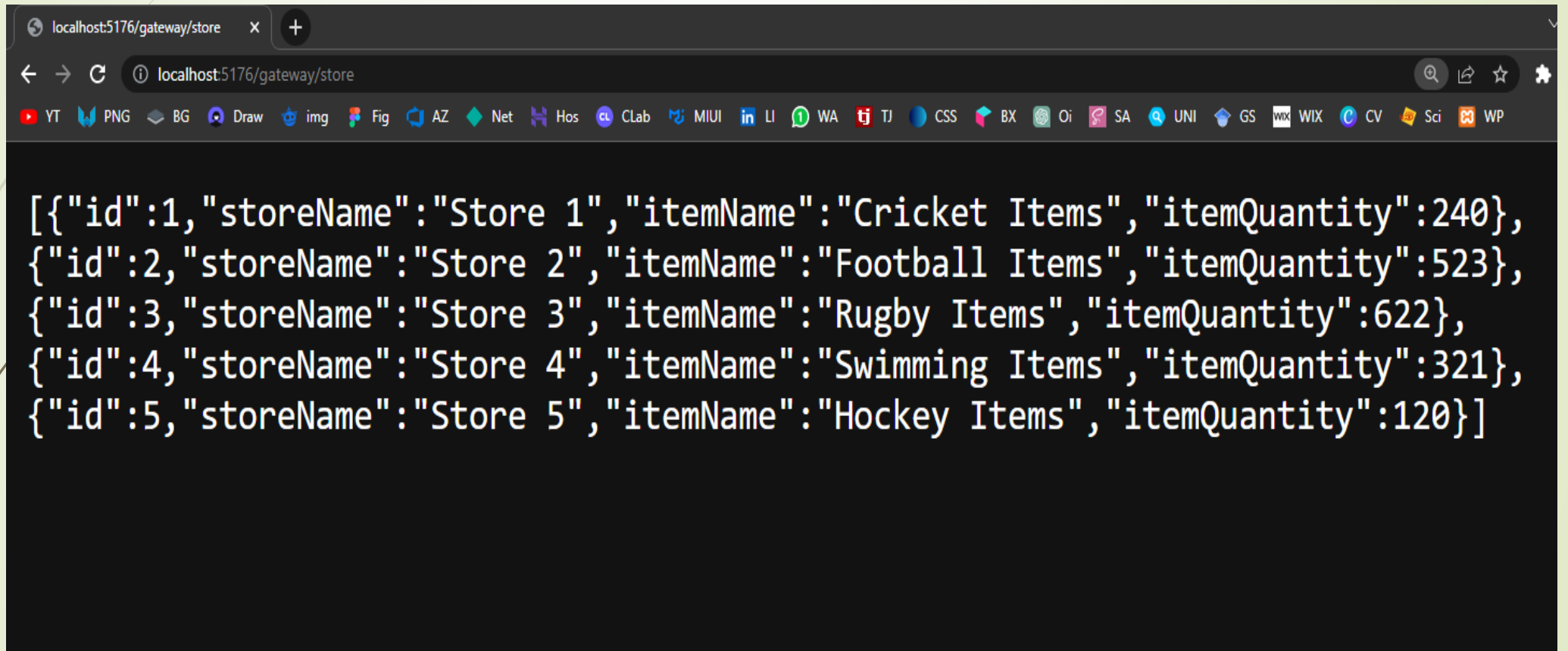
Server response

Code	Details
200	<div>Response body</div> <div>store with ID:6 got deleted successfully.  <div>Download</div></div> <div>Response headers</div> <div>content-type: text/plain; charset=utf-8 date: Wed, 19 Apr 2023 16:10:14 GMT server: Kestrel transfer-encoding: chunked</div>

Responses

Code	Description	Links
------	-------------	-------

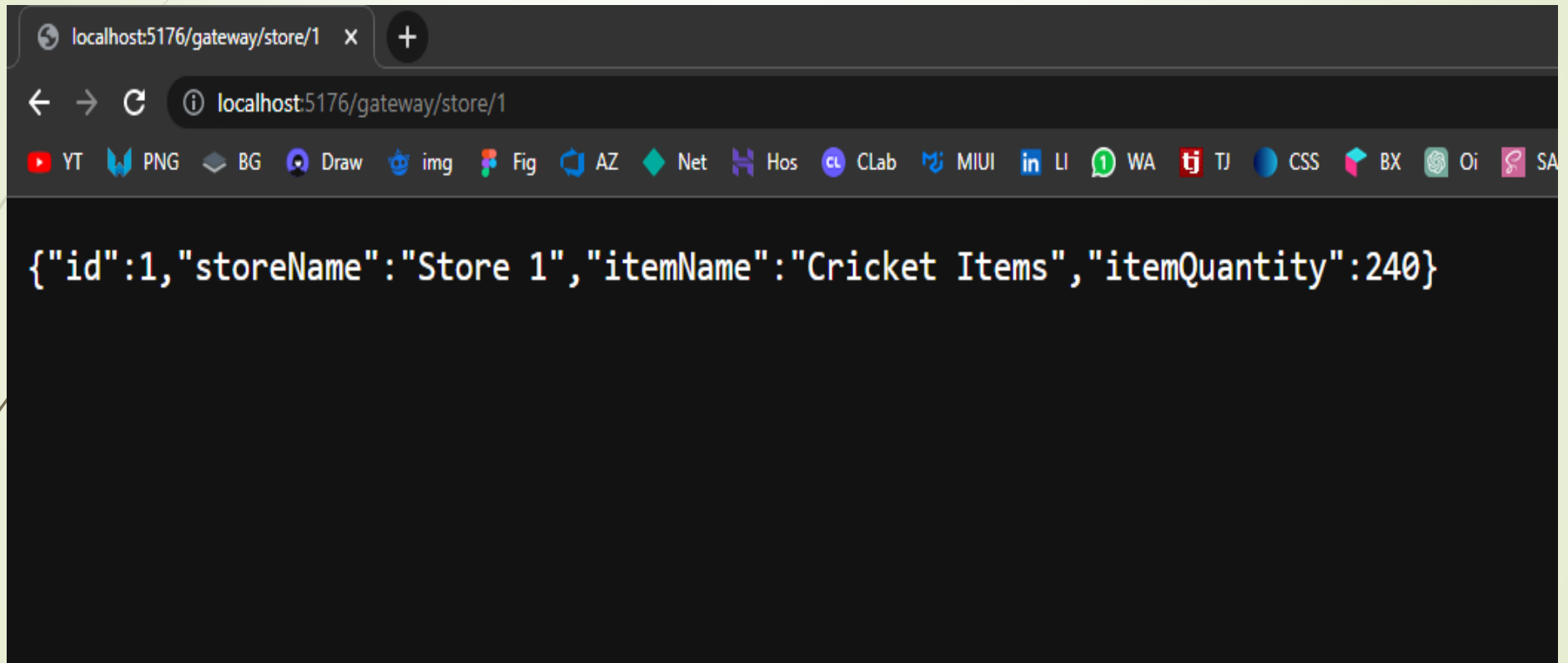
Store Up Stream URL in Browser




A screenshot of a web browser window. The address bar shows 'localhost:5176/gateway/store'. The page content displays a JSON array of five objects, each representing a store item. The browser's developer tools are not visible. The page has a dark background with light-colored text for the JSON data.

```
[{"id":1,"storeName":"Store 1","itemName":"Cricket Items","itemQuantity":240}, {"id":2,"storeName":"Store 2","itemName":"Football Items","itemQuantity":523}, {"id":3,"storeName":"Store 3","itemName":"Rugby Items","itemQuantity":622}, {"id":4,"storeName":"Store 4","itemName":"Swimming Items","itemQuantity":321}, {"id":5,"storeName":"Store 5","itemName":"Hockey Items","itemQuantity":120}]
```

Store Up Stream URL in Browser



❖ IT20129712 – Godakanda P.G.S. -Transport Microservice

 **Swagger**
Supported by SMARTBEAR

Select a definition Sliit.MTIT.Transport v1

Sliit.MTIT.Transport 1.0 OAS3

<http://localhost:5010/swagger/v1/swagger.json>

Transport

- GET** /api/Transport
- POST** /api/Transport
- PUT** /api/Transport
- GET** /api/Transport/{id}
- DELETE** /api/Transport/{id}

WeatherForecast

- GET** /WeatherForecast

Schemas

- Transport >
- WeatherForecast >

➤ Transport GET Method

Transport

GET

/api/Transport

Parameters

Cancel

No parameters

ExecuteClear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:5010/api/Transport' \
-H 'accept: */*'

```

Request URL

```
http://localhost:5010/api/Transport

```

Server response

Code	Details
200	<div>Response body<pre>{ { "id": 1, "transportName": "ABCD", "location": "Colombo", "vehicalNo": "AB2356" }, { "id": 2, "transportName": "Nike", "location": "Galle", "vehicalNo": "ZD3567" }, { "id": 3, "transportName": "DSI", "location": "Matara", "vehicalNo": "HP7689" }, { "id": 4, "transportName": "Bata", "location": "Kandy", </pre></div>

➤ Transport POST Method

POST /api/Transport

Parameters

Cancel

Reset

No parameters

Request body

application/json

```
{
  "id": 6,
  "transportName": "QSGI",
  "location": "Dehiwela",
  "vehicalNo": "GF5678"
}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
'http://localhost:5010/api/Transport' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "id": 6,
  "transportName": "QSGI",
  "location": "Dehiwela",
  "vehicalNo": "GF5678"
}'
```

Request URL

```
http://localhost:5010/api/Transport
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:5010/api/Transport' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": 6,
    "transportName": "OSGI",
    "location": "Dehiwela",
    "vehicalNo": "GF5678"
  }'
```

Request URL

http://localhost:5010/api/Transport

Server response

Code	Details
------	---------

200	
-----	--

Response body

```
{
  "id": 6,
  "transportName": "OSGI",
  "location": "Dehiwela",
  "vehicalNo": "GF5678"
}
```



Download

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 19 Apr 2023 16:25:27 GMT
server: Kestrel
transfer-encoding: chunked
```

Responses

Code	Description
------	-------------

200	
-----	--

Success

Links

No links

➤ Transport PUT Method

PUT

/api/Transport

⬆

Parameters

Cancel

Reset

No parameters

Request body

application/json

⌵

```
{
  "id": 3,
  "transportName": "Cool",
  "location": "Katunayaka",
  "vehicalNo": "KR8976"
}
```

Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
  'http://localhost:5010/api/Transport' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": 3,
    "transportName": "Cool",
    "location": "Katunayaka",
    "vehicalNo": "KR8976"
  }'
```

Request URL

```
http://localhost:5010/api/Transport
```


Execute

Clear

Responses

Curl

```
curl -X 'PUT' \  
  'http://localhost:5010/api/Transport' \  
  -H 'accept: */*' \  
  -H 'Content-Type: application/json' \  
  -d '{  
    "id": 3,  
    "transportName": "Cool",  
    "location": "Katunayaka",  
    "vehicalNo": "KR8976"  
  }'
```

Request URL

http://localhost:5010/api/Transport

Server response

Code Details

200

Response body

```
{  
  "id": 3,  
  "transportName": "Cool",  
  "location": "Katunayaka",  
  "vehicalNo": "KR8976"  
}
```



Download

Response headers

```
content-type: application/json; charset=utf-8  
date: Wed, 19 Apr 2023 16:26:55 GMT  
server: Kestrel  
transfer-encoding: chunked
```

Responses

Code Description

Links

200

Success

No links

➤ Transport Search ID GET Method

GET

/api/Transport/{id}

⬆

Parameters

Cancel

Name	Description
id * required	
integer(\$int32)	3
(path)	

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:5010/api/Transport/3' \
-H 'accept: */*'
```

Request URL

```
http://localhost:5010/api/Transport/3
```

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "id": 3, "transportName": "Cool", "location": "Katunayaka", "vehicalNo": "KR8976" }</pre></div><div><div>Download</div></div></div> <div><div>Response headers</div><div><pre>content-type: application/json; charset=utf-8 date: Wed, 19 Apr 2023 16:28:00 GMT server: Kestrel transfer-encoding: chunked</pre></div></div>

Responses

Code	Description
------	-------------

Links

➤ Transport DELETE Method

DELETE /api/Transport/{id}

Parameters

Cancel

Name	Description
id * required	
integer(\$int32)	6
(path)	

ExecuteClear

Responses

Curl

```
curl -X 'DELETE' \
'http://localhost:5010/api/Transport/6' \
-H 'accept: */*'
```

Request URL

```
http://localhost:5010/api/Transport/6
```

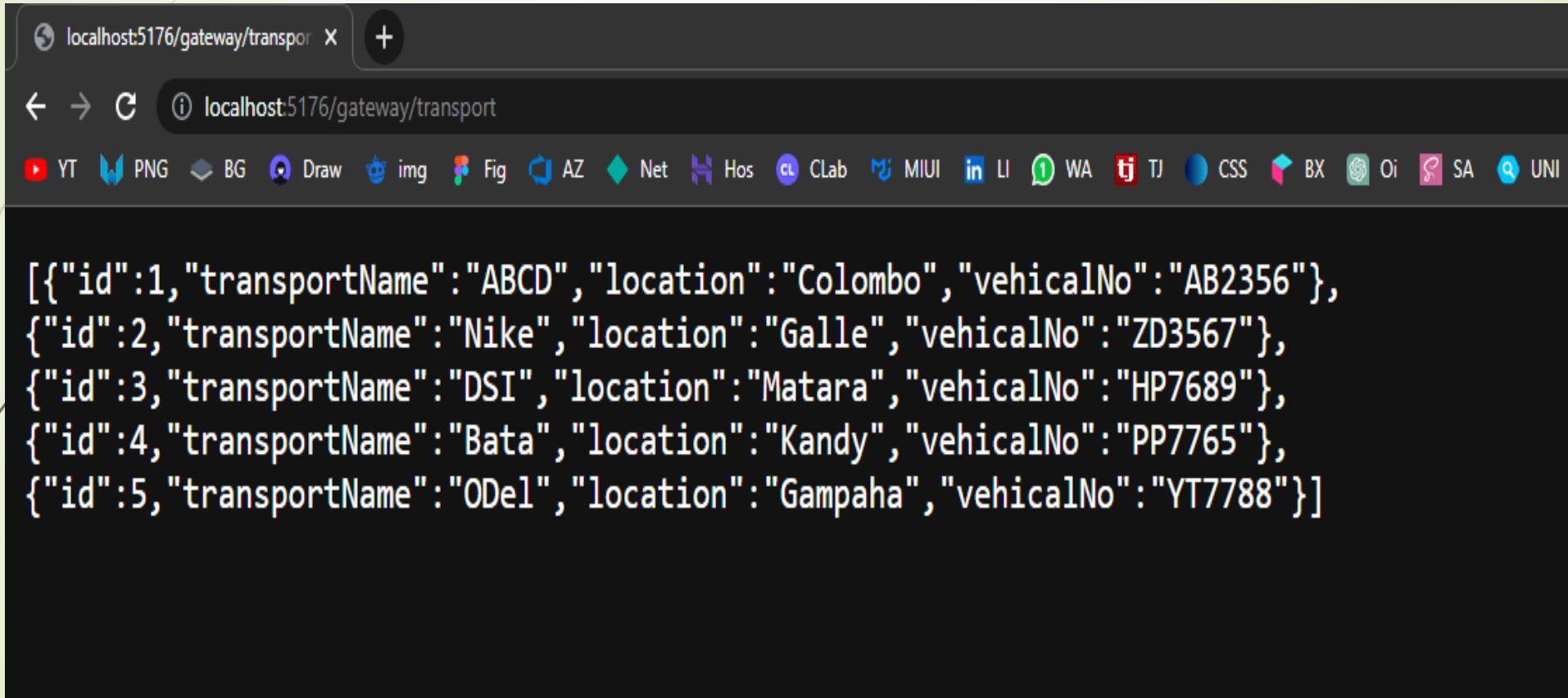
Server response

Code	Details
200	<div>Response body<pre>transport with ID:6 got deleted successfully.</pre><div>Download</div></div> <div>Response headers<pre>content-type: text/plain; charset=utf-8 date: Wed, 19 Apr 2023 16:28:26 GMT server: Kestrel transfer-encoding: chunked</pre></div>

Responses

Code	Description	Links
------	-------------	-------

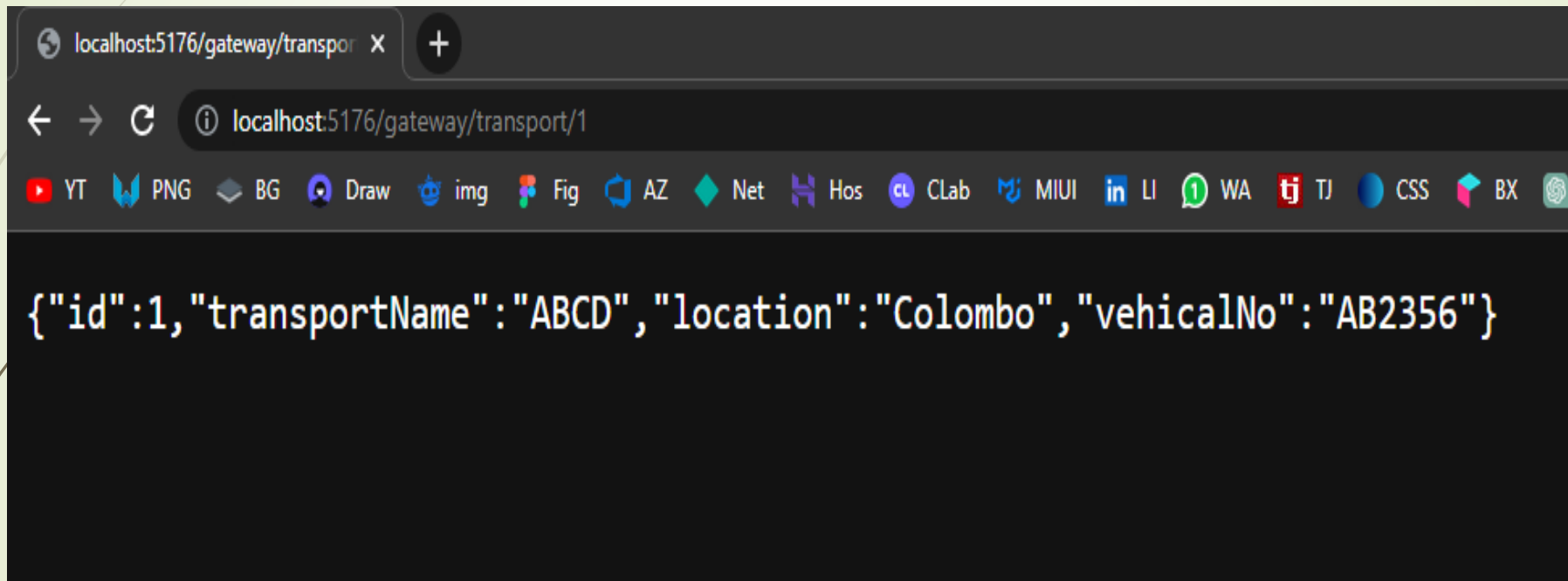
➤ Transport Up Stream URL in Browser



A screenshot of a web browser window. The address bar shows the URL `localhost:5176/gateway/transport`. The browser's toolbar includes various icons for social media and utilities. The main content area displays a JSON array of five objects, each representing a transport record with fields for id, transportName, location, and vehicalNo.

```
[{"id":1,"transportName":"ABCD","location":"Colombo","vehicalNo":"AB2356"},  
{"id":2,"transportName":"Nike","location":"Galle","vehicalNo":"ZD3567"},  
{"id":3,"transportName":"DSI","location":"Matara","vehicalNo":"HP7689"},  
{"id":4,"transportName":"Bata","location":"Kandy","vehicalNo":"PP7765"},  
{"id":5,"transportName":"ODel","location":"Gampaha","vehicalNo":"YT7788"}]
```

➤ Transport Up Stream URL in Browser





❖ Source Code Link

Link: <https://github.com/ThiroshMadhusha/Microservices-Ocelote>

