SINGAPORE POLYTECHNIC | SP

**School of Computing**

**DIPLOMA IN INFORMATION TECHNOLOGY**

**Assignment:** CA1

**Class:** DIT/FT/3A/89

**Lecturer:** Mr. Ji Peng Xiang

By:

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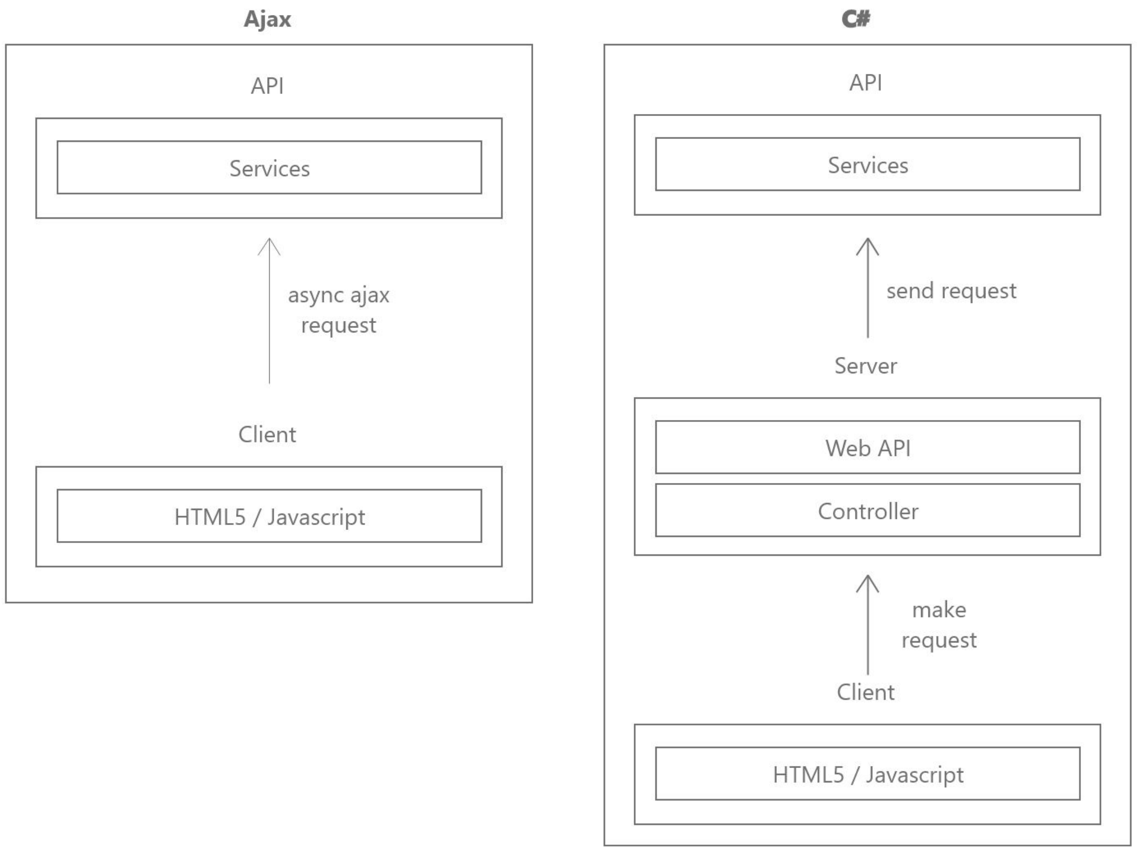
# Table of Content

# Task 1

## Practical 1 Part D

### Diagram



# Task 2

## Practical 2 Part 2

### API Documentation

1. ProductsV1
    a. Get Version
        i. Returns the current API version
        ii. Method: GET
        iii. URL: api/v1/products/version
    b. Get Multiple Names
        i. Returns 3 names that were included in the query parameters
        ii. Method: GET
        iii. URL: api/v1/products/message?message1=message&message2=message&message3=message
        iv. Params:
            1. string message1
            2. string message2
            3. string message3
    c. Get All Products
        i. Returns all products in the repository
        ii. Method: GET
        iii. URL: api/v1/products
    d. Get Product
        i. Returns a single product
        ii. Method: GET
        iii. URL: api/v1/products/{id}
        iv. Params:
            1. Int id
                a. Min value: 2
2. ProductsV2
    a. Get Products by Category
        i. Returns all products by category
        ii. Method: GET
        iii. URL: api/v2/products?category=[category]
        iv. Params:
            1. string category
    b. Add Product
        i. Adds a product to the list
        ii. Method: POST
        iii. URL: api/v2/products
        iv. Params:

            1. Product product

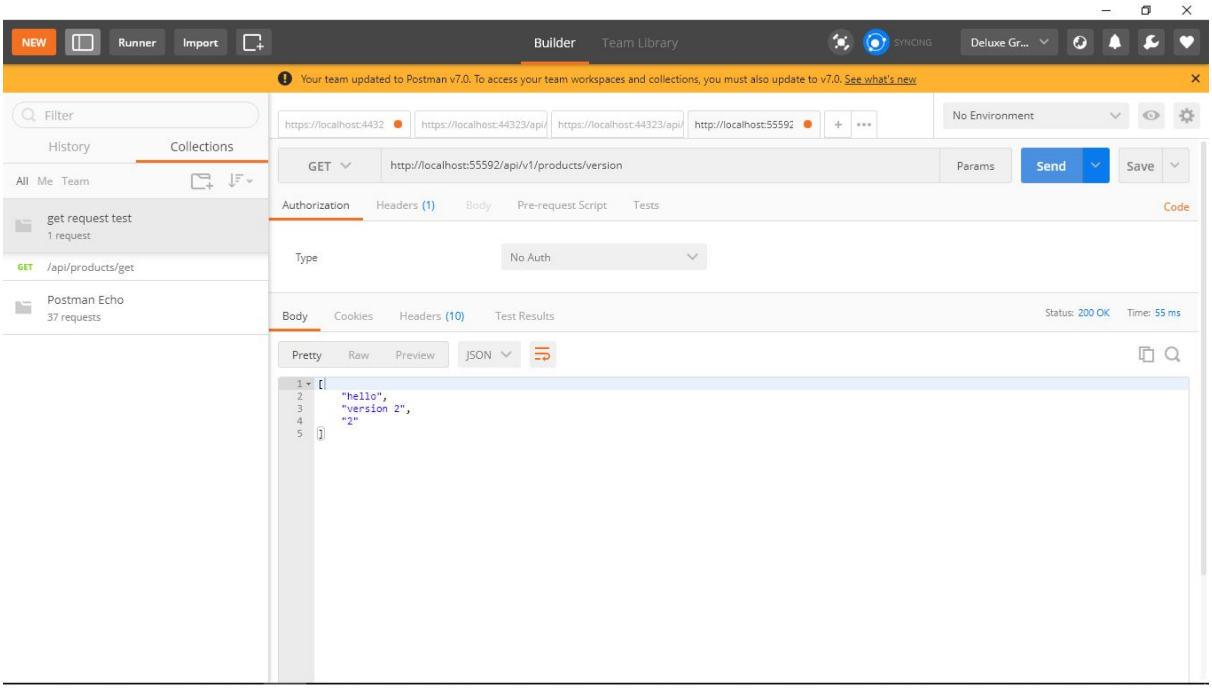
c. Edit Product
    i. Updates an existing product in the list
    ii. Method: PUT
    iii. URL: api/v2/products
    iv. Params:
        1. Product product

d. Delete Product
    i. Deletes a product from the product list
    ii. Method: DELETE
    iii. URL: api/v2/products/{id}
    iv. Params:
        1. Int ID

## Testing Screenshots

### Get Version

### Success



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

GET http://localhost:55592/api/v1/products/version

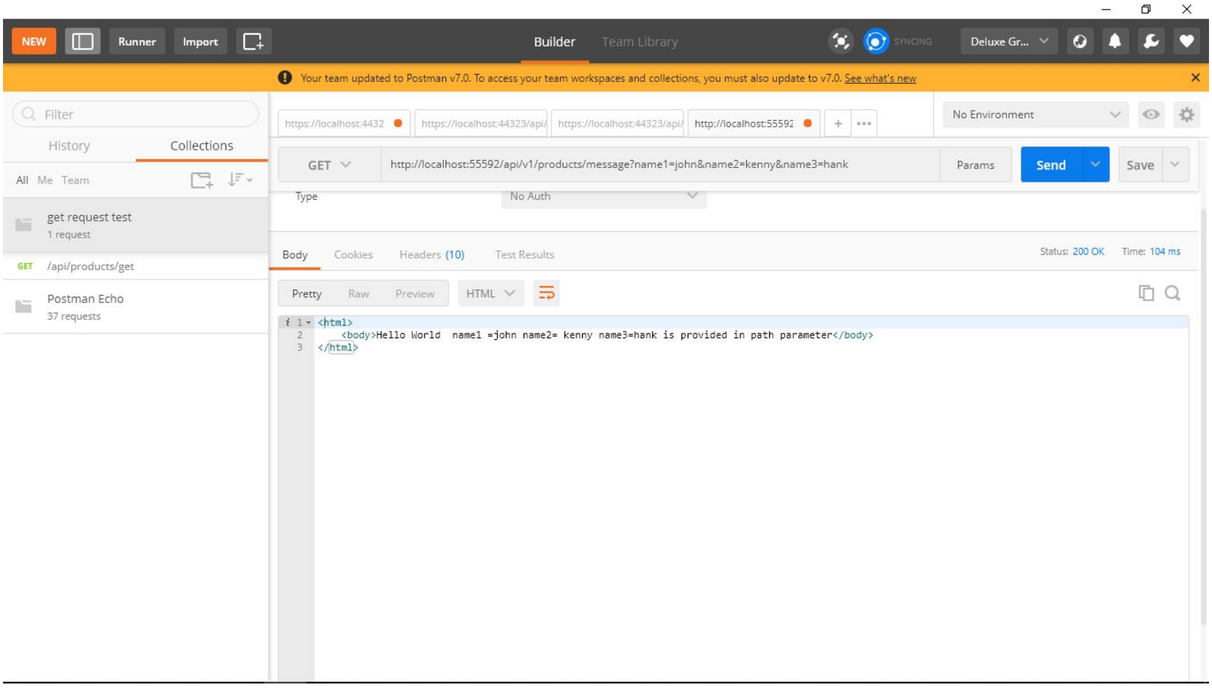
Type: No Auth

Status: 200 OK Time: 55 ms

```
[
    "hello",
    "version 2",
    "2"
]
```

## Get Multiple Names

### Success:



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

get request test
1 request

GET /api/products/get

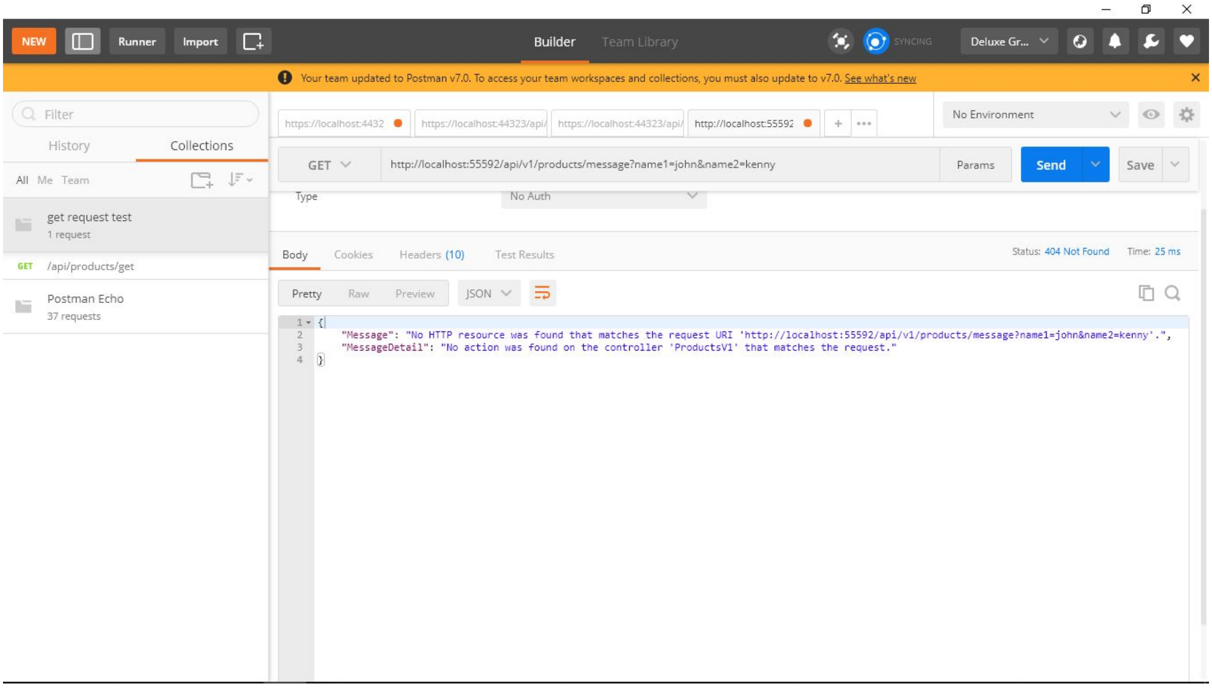
Postman Echo
37 requests

GET http://localhost:55592/api/v1/products/message?name1=john&name2=kenny&name3=hank

Status: 200 OK Time: 104 ms

```
<html>
    <body>Hello World  name1 =john name2= kenny name3=hank is provided in path parameter</body>
</html>
```

### Missing parameters:



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

get request test
1 request

GET /api/products/get

Postman Echo
37 requests

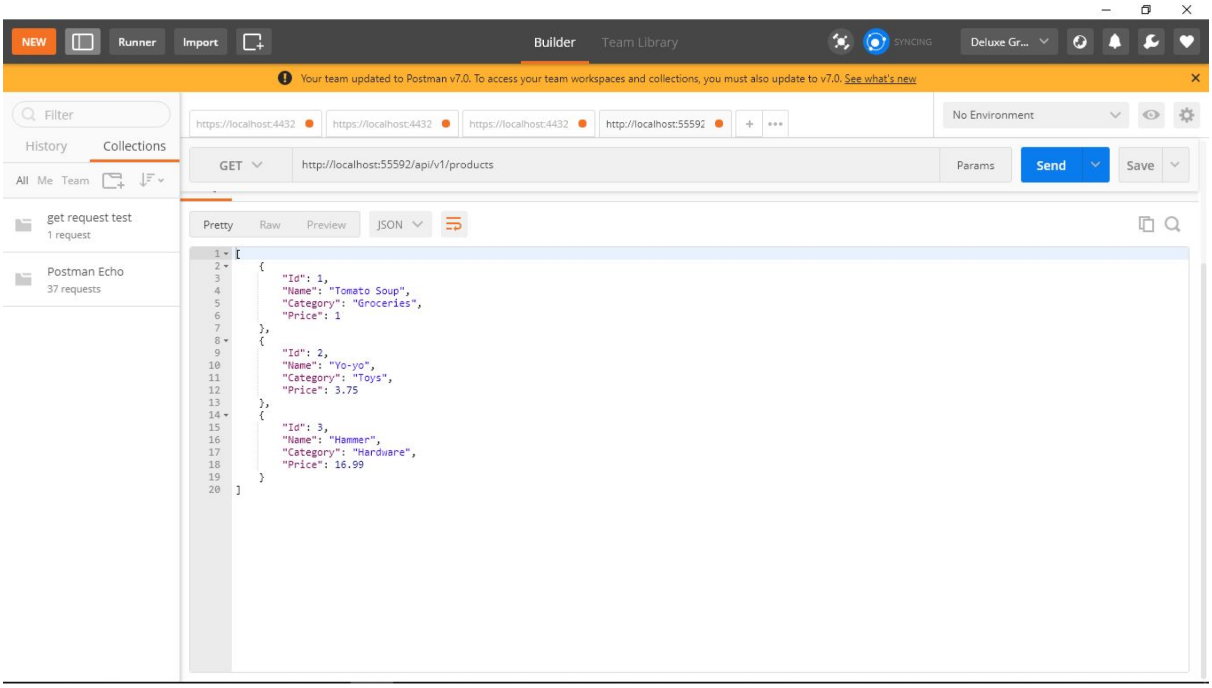
GET http://localhost:55592/api/v1/products/message?name1=john&name2=kenny

Status: 404 Not Found Time: 25 ms

```
{
    "Message": "No HTTP resource was found that matches the request URI 'http://localhost:55592/api/v1/products/message?name1=john&name2=kenny'.",
    "MessageDetail": "No action was found on the controller 'ProductsV1' that matches the request."
}
```

## Get All Products

### Success:



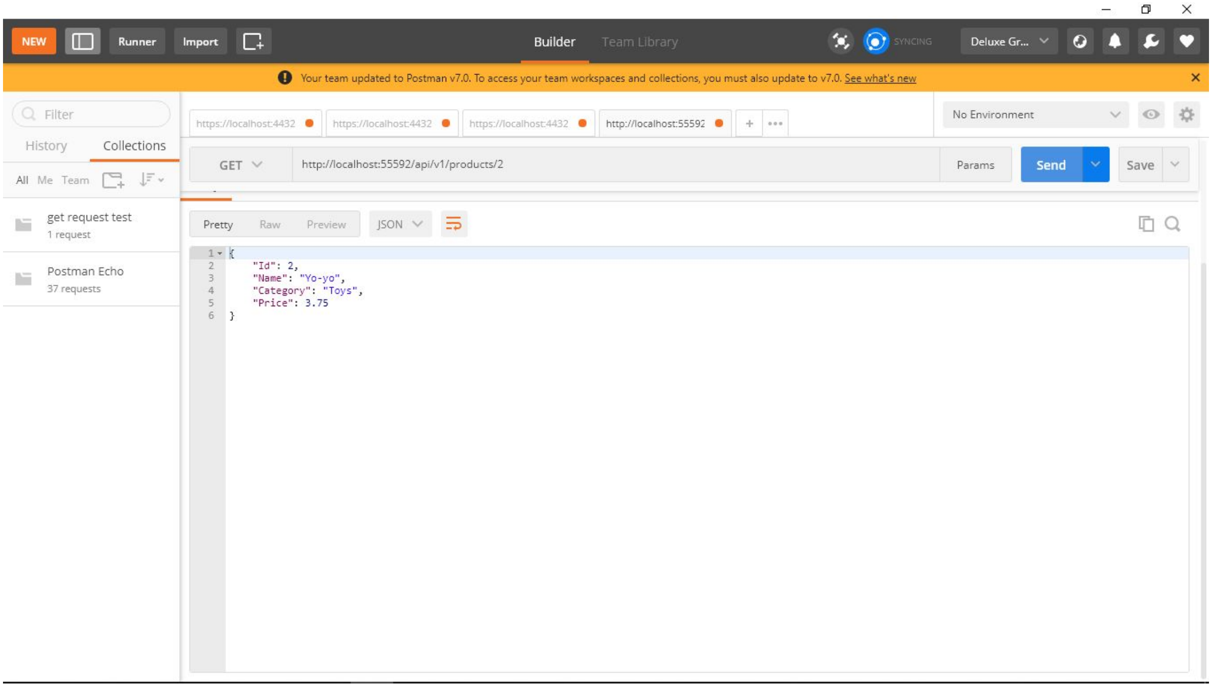
Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

GET http://localhost:55592/api/v1/products

```
[
    {
        "Id": 1,
        "Name": "Tomato Soup",
        "Category": "Groceries",
        "Price": 1
    },
    {
        "Id": 2,
        "Name": "Yo-yo",
        "Category": "Toys",
        "Price": 3.75
    },
    {
        "Id": 3,
        "Name": "Hammer",
        "Category": "Hardware",
        "Price": 16.99
    }
]
```

## Get Product

### Success:

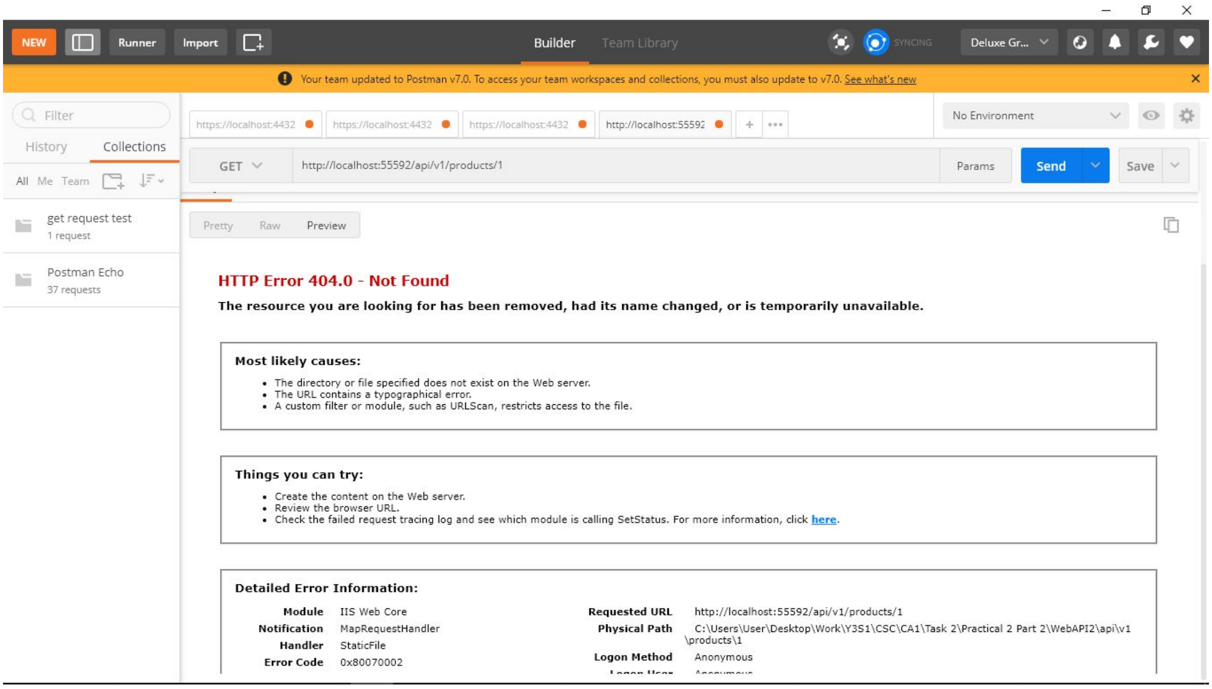


Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

GET http://localhost:55592/api/v1/products/2

```
{
    "Id": 2,
    "Name": "Yo-yo",
    "Category": "Toys",
    "Price": 3.75
}
```

## ID < 2



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

get request test
1 request

Postman Echo
37 requests

GET http://localhost:55592/api/v1/products/1

**HTTP Error 404.0 - Not Found**

**The resource you are looking for has been removed, had its name changed, or is temporarily unavailable.**

**Most likely causes:**

- The directory or file specified does not exist on the Web server.
- The URL contains a typographical error.
- A custom filter or module, such as URLScan, restricts access to the file.

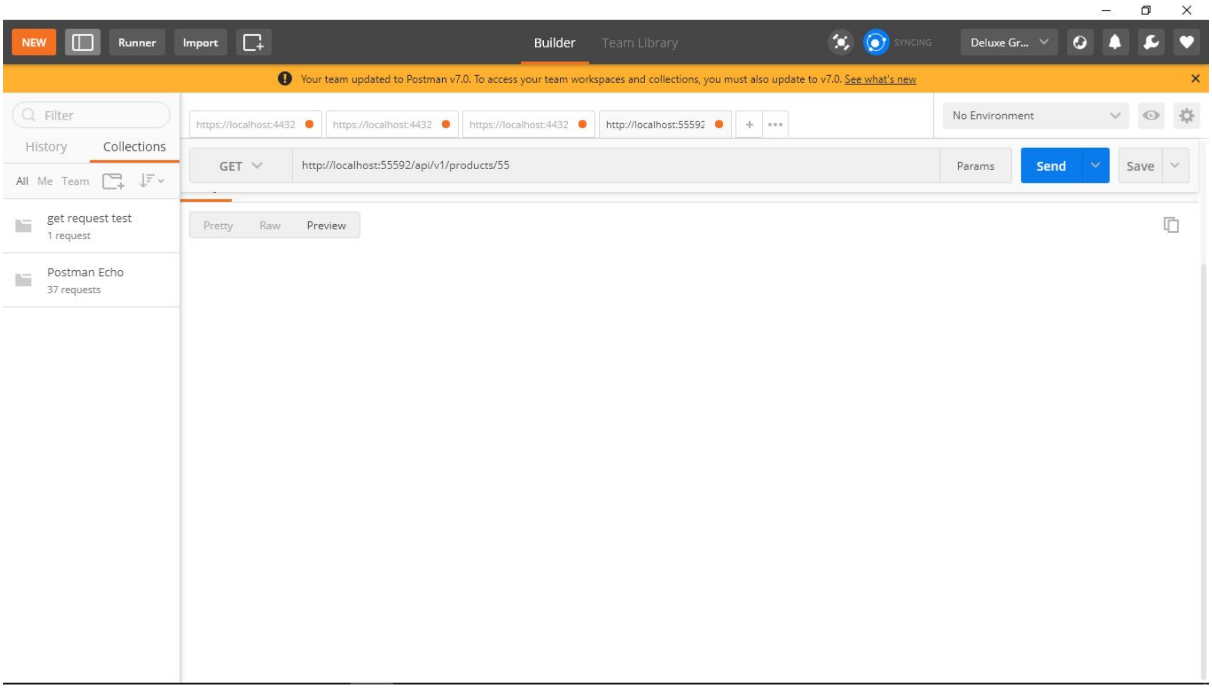
**Things you can try:**

- Create the content on the Web server.
- Review the browser URL.
- Check the failed request tracing log and see which module is calling SetStatus. For more information, click here.

**Detailed Error Information:**

| | | | |
|---|---|---|---|
| **Module** | IIS Web Core | **Requested URL** | http://localhost:55592/api/v1/products/1 |
| **Notification** | MapRequestHandler | **Physical Path** | C:\Users\User\Desktop\Work\Y3S1\CSC\CA1\Task 2\Practical 2 Part 2\WebAPI2\api\v1 \products\1 |
| **Handler** | StaticFile | | |
| **Error Code** | 0x80070002 | **Logon Method** | Anonymous |
| | | **Logon User** | Anonymous |

## ID does not exist in list



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

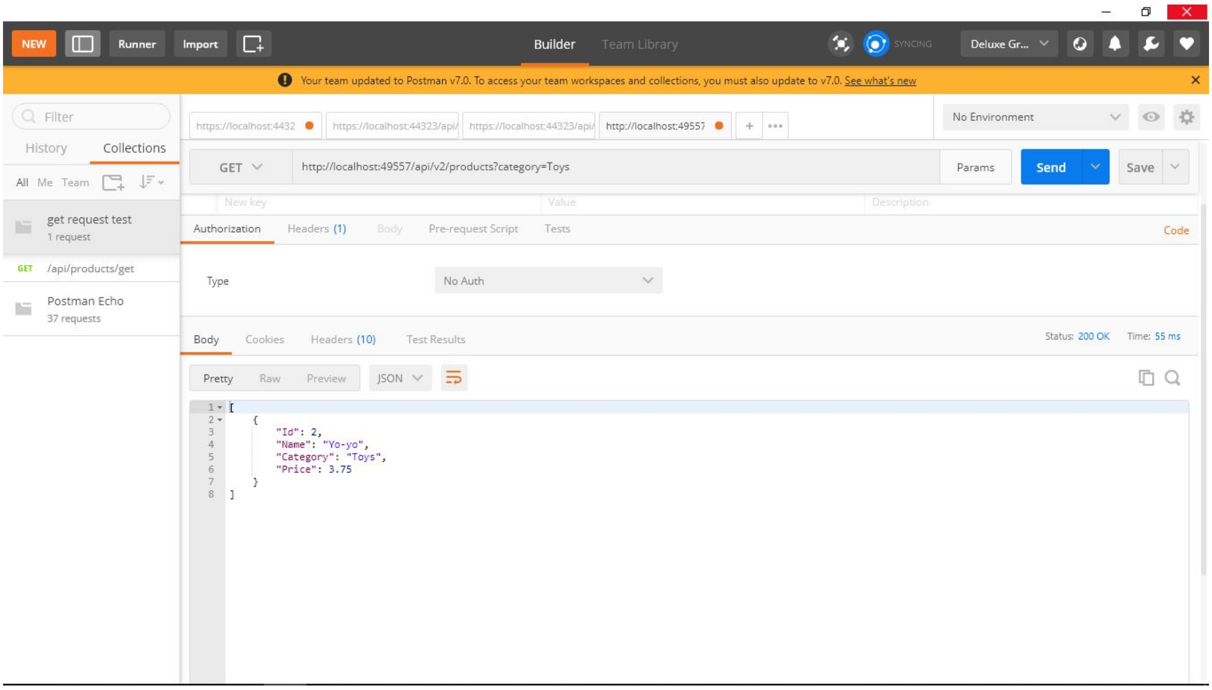
get request test
1 request

Postman Echo
37 requests

GET http://localhost:55592/api/v1/products/55

## Get Products by Category

### Success



GET http://localhost:49557/api/v2/products?category=Toys

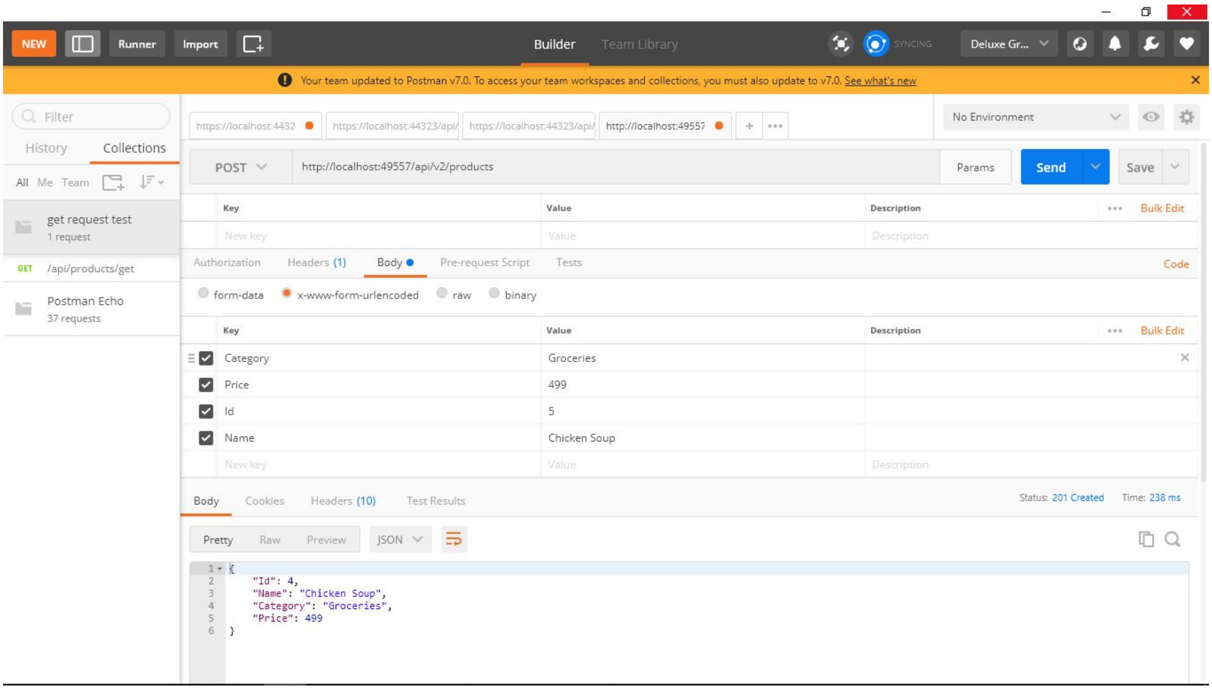
Type: No Auth

Status: 200 OK Time: 55 ms

```
[
    {
        "Id": 2,
        "Name": "Yo-yo",
        "Category": "Toys",
        "Price": 3.75
    }
]
```

## Add Product

### Success:



POST http://localhost:49557/api/v2/products

○ form-data ● x-www-form-urlencoded ○ raw ○ binary

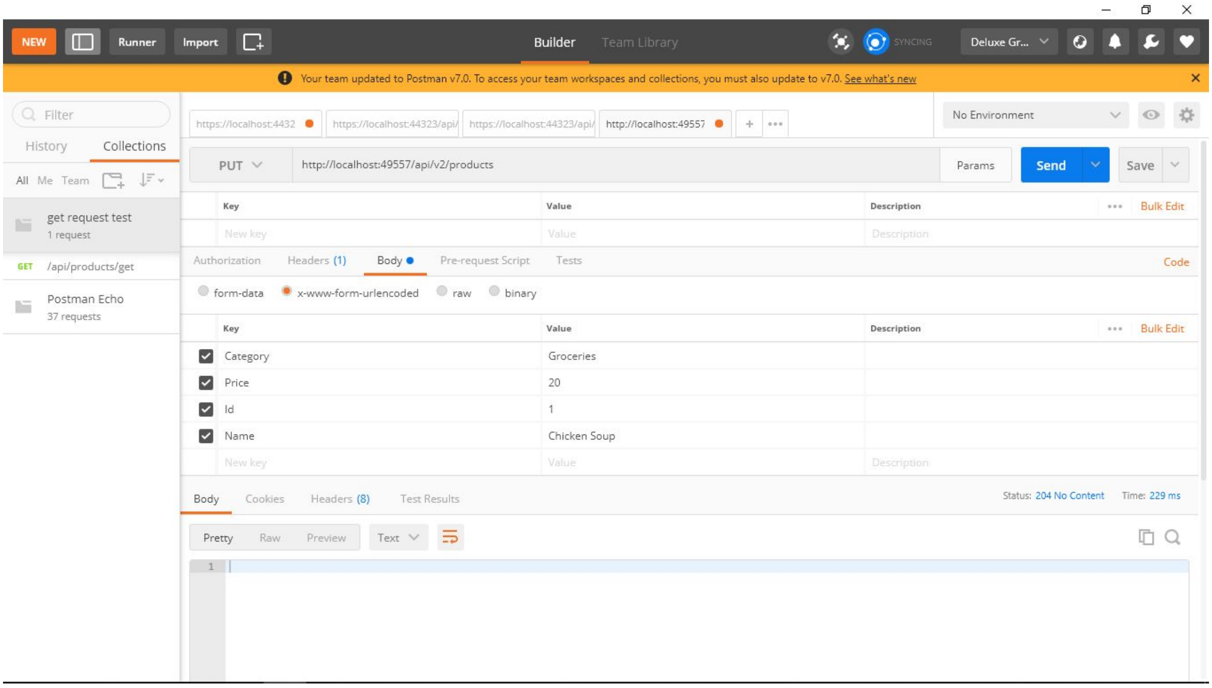
| | Key | Value | Description |
|---|---|---|---|
| ☑ | Category | Groceries | |
| ☑ | Price | 499 | |
| ☑ | Id | 5 | |
| ☑ | Name | Chicken Soup | |
| | New key | Value | Description |

Status: 201 Created Time: 238 ms

```
{
    "Id": 4,
    "Name": "Chicken Soup",
    "Category": "Groceries",
    "Price": 499
}
```

# Edit Product

## Success



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

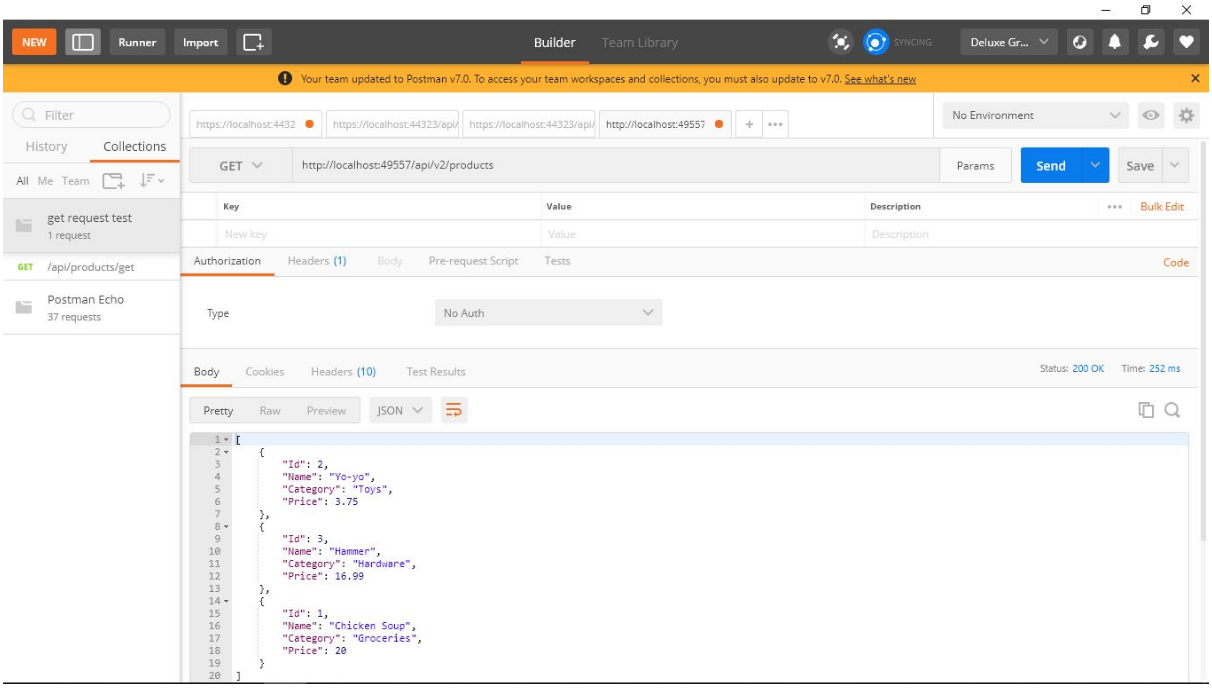
PUT http://localhost:49557/api/v2/products

Body: ● x-www-form-urlencoded

| | Key | Value | Description |
|---|---|---|---|
| ☑ | Category | Groceries | |
| ☑ | Price | 20 | |
| ☑ | Id | 1 | |
| ☑ | Name | Chicken Soup | |

Status: 204 No Content Time: 229 ms

## Get all products result



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

GET http://localhost:49557/api/v2/products

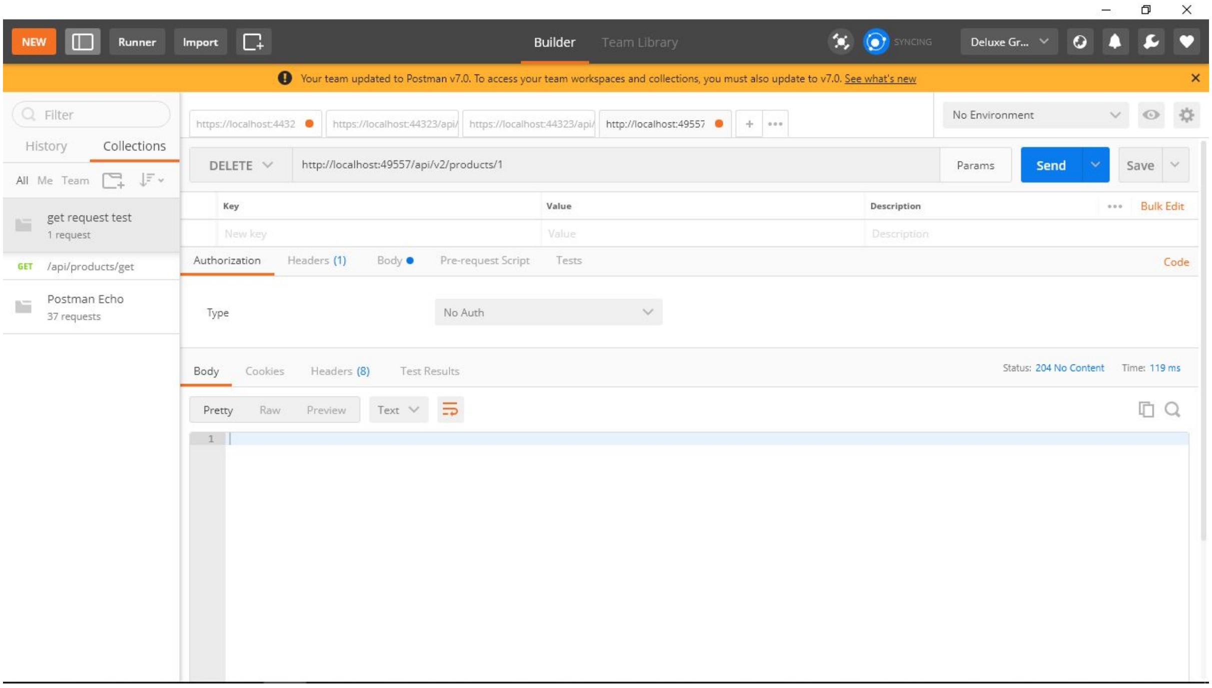
Authorization Type: No Auth

Status: 200 OK Time: 252 ms

```
[
    {
        "Id": 2,
        "Name": "Yo-yo",
        "Category": "Toys",
        "Price": 3.75
    },
    {
        "Id": 3,
        "Name": "Hammer",
        "Category": "Hardware",
        "Price": 16.99
    },
    {
        "Id": 1,
        "Name": "Chicken Soup",
        "Category": "Groceries",
        "Price": 20
    }
]
```

## Delete Product

### Success

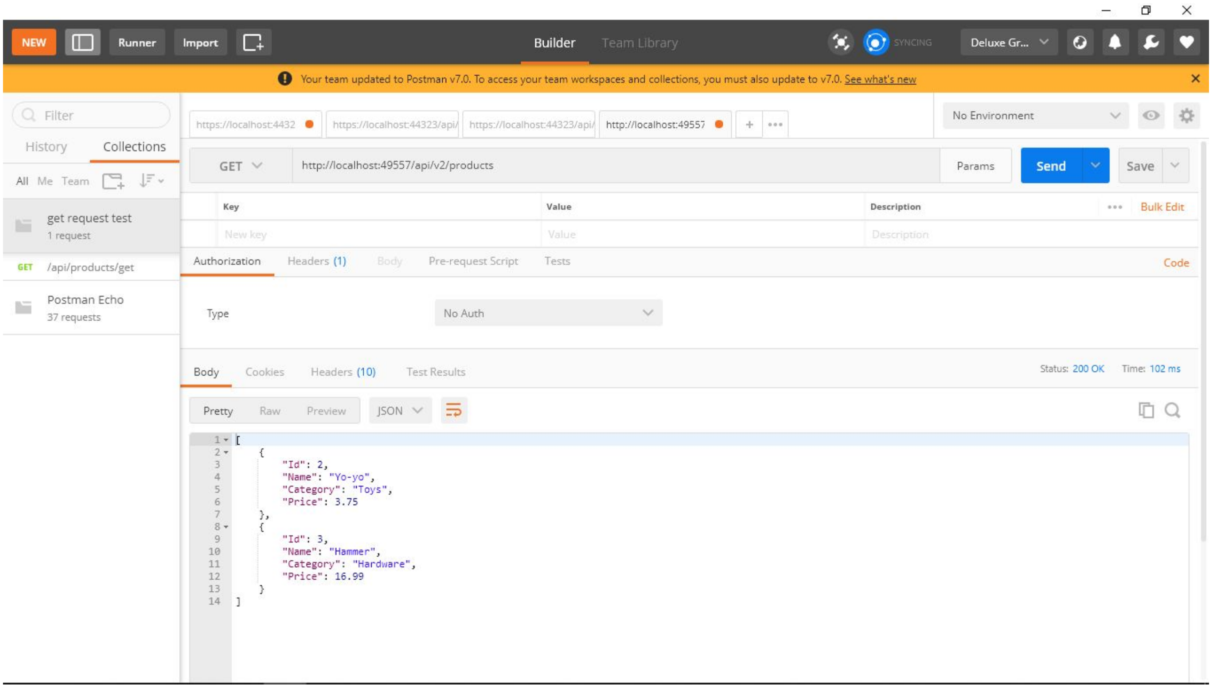


DELETE http://localhost:49557/api/v2/products/1

Type: No Auth

Status: 204 No Content Time: 119 ms

## Get all products result



GET http://localhost:49557/api/v2/products

Type: No Auth

Status: 200 OK Time: 102 ms

```
[
    {
        "Id": 2,
        "Name": "Yo-yo",
        "Category": "Toys",
        "Price": 3.75
    },
    {
        "Id": 3,
        "Name": "Hammer",
        "Category": "Hardware",
        "Price": 16.99
    }
]
```

# Practical 3 Part 1

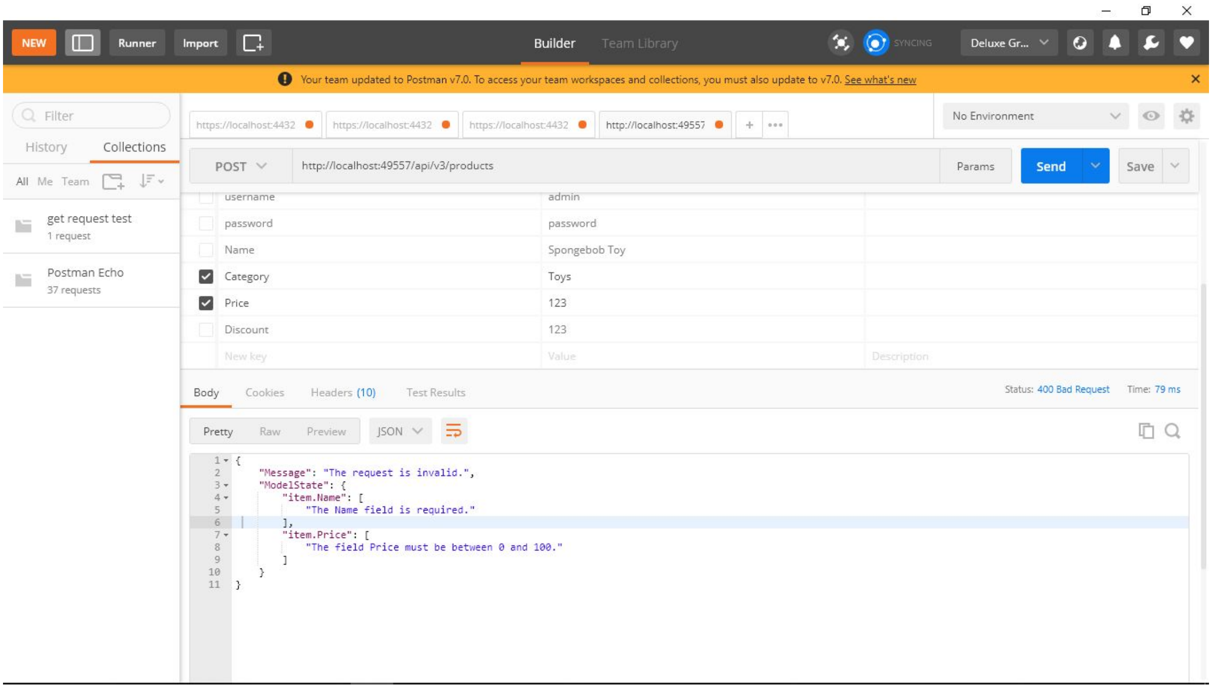
## API Documentation

1. Get all Products
    a. Returns all products
    b. Method: GET
    c. URL: api/v3/products
2. Get product
    a. Returns a single product by ID
    b. Method: GET
    c. URL: api/v3/products/id
    d. Params:
        i. Int id
            1. Min value: 2
3. Get Products by Category
    a. Returns products by category
    b. Method: GET
    c. URL: api/v3/products?category=[category]
    d. Params:
        i. String category
4. Add Product
    a. Adds a product
    b. Method: POST
    c. URL: api/v3/products
    d. Params:
        i. Product product
5. Edit Product
    a. Edits an existing product
    b. Method: PUT
    c. URL: api/v3/products
    d. Params:
        i. Product product
6. Delete Product
    a. Deletes a product
    b. Method: DELETE
    c. URL: api/v3/products
    d. Params:
        i. Int id

# Postman Screenshots

## Add Product

### Name is null and price exceeds range



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

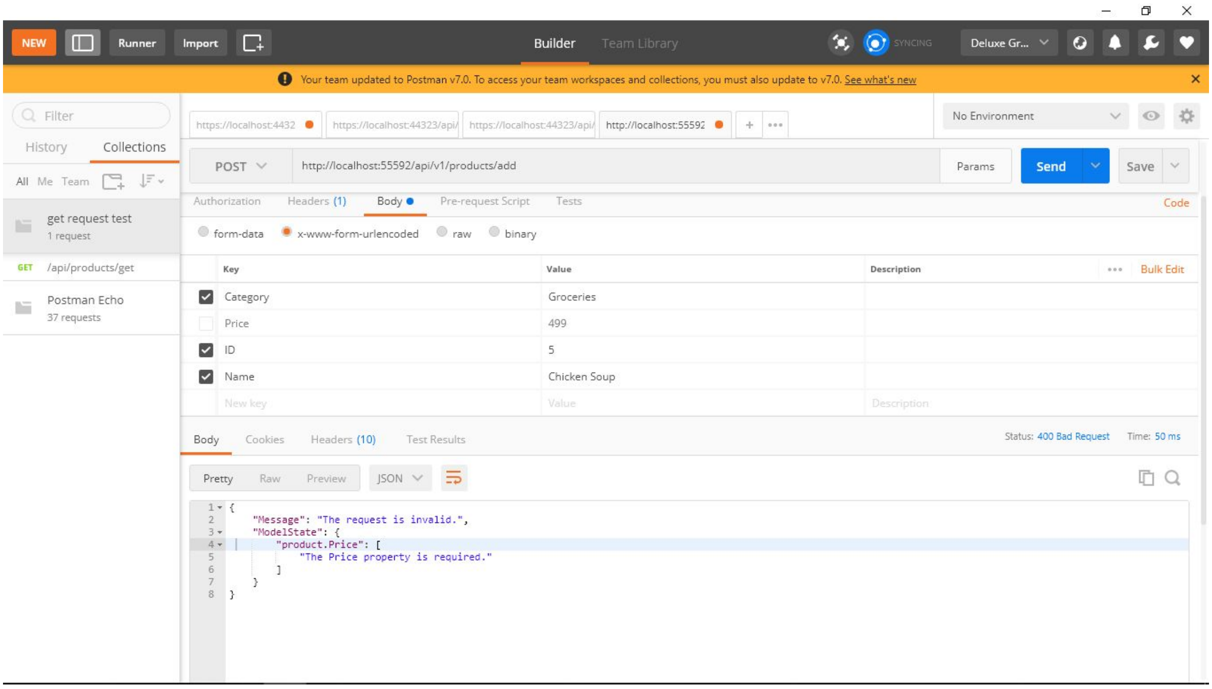
POST http://localhost:49557/api/v3/products

|  |  |  |  |
|---|---|---|---|
| □ | username | admin |  |
| □ | password | password |  |
| □ | Name | Spongebob Toy |  |
| ☑ | Category | Toys |  |
| ☑ | Price | 123 |  |
| □ | Discount | 123 |  |
|  | New key | Value | Description |

Status: 400 Bad Request   Time: 79 ms

```
{
    "Message": "The request is invalid.",
    "ModelState": {
        "item.Name": [
            "The Name field is required."
        ],
        "item.Price": [
            "The field Price must be between 0 and 100."
        ]
    }
}
```

### Price is missing



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

POST http://localhost:55592/api/v1/products/add

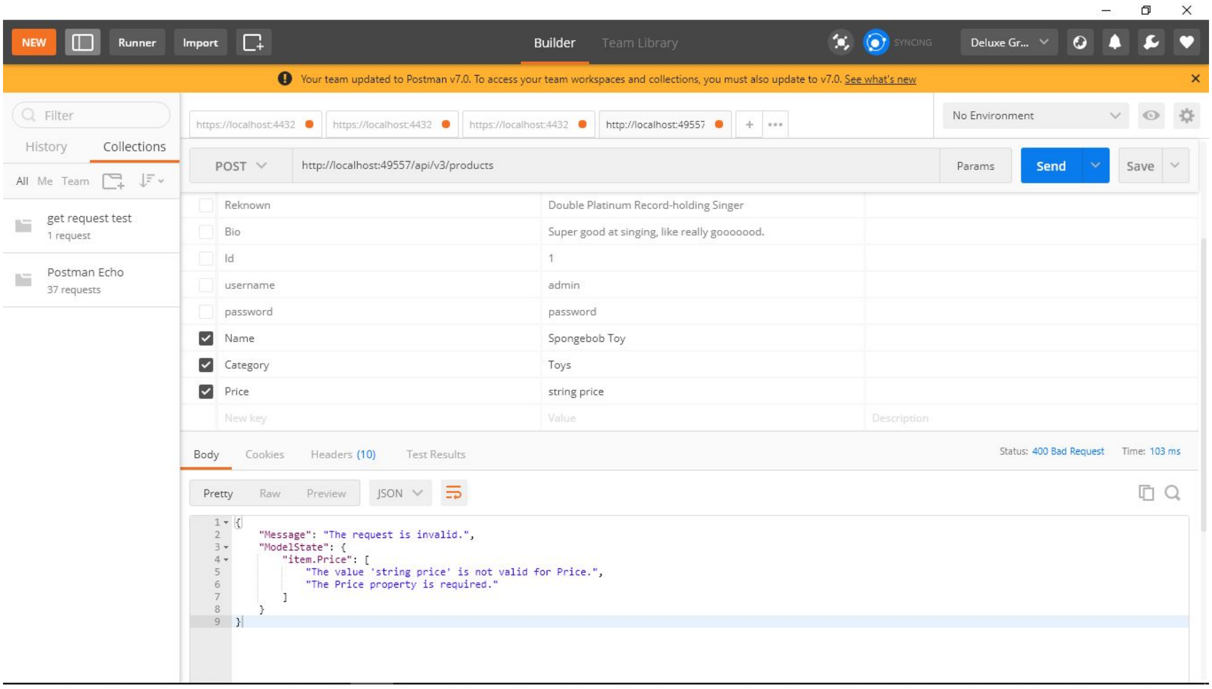
○ form-data ● x-www-form-urlencoded ○ raw ○ binary

|  | Key | Value | Description |
|---|---|---|---|
| ☑ | Category | Groceries |  |
| □ | Price | 499 |  |
| ☑ | ID | 5 |  |
| ☑ | Name | Chicken Soup |  |
|  | New key | Value | Description |

Status: 400 Bad Request   Time: 50 ms

```
{
    "Message": "The request is invalid.",
    "ModelState": {
        "product.Price": [
            "The Price property is required."
        ]
    }
}
```

### Price is not a number



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

get request test
1 request

Postman Echo
37 requests

https://localhost:4432 | https://localhost:4432 | https://localhost:4432 | http://localhost:49557

POST http://localhost:49557/api/v3/products

| | | |
|---|---|---|
| □ | Reknown | Double Platinum Record-holding Singer |
| □ | Bio | Super good at singing, like really gooooood. |
| □ | Id | 1 |
| □ | username | admin |
| □ | password | password |
| ☑ | Name | Spongebob Toy |
| ☑ | Category | Toys |
| ☑ | Price | string price |
| | New key | Value |

Body

Status: 400 Bad Request Time: 103 ms

```
{
    "Message": "The request is invalid.",
    "ModelState": {
        "item.Price": [
            "The value 'string price' is not valid for Price.",
            "The Price property is required."
        ]
    }
}
```

# Task 3

## Web API Security Authentication & Authorisation with Bearer Token

### API Documentation

1. Get Values
    a. Gets a string that greets the logged in user
    b. Method: GET
    c. URL: api/values
2. Login
    a. Gets a token which will be used to authorize the user into using the API
    b. Method: POST
    c. URL: /Token
    d. Params:
        i. String grant_type (usually password)
        ii. String username
        iii. String password
3. Register
    a. Registers an account
    b. Method: POST

c. URL: api/Account/Register

d. Params

   i. String email

      1. Must be of type email

   ii. String password

   iii. String confirmPassword

4. Logout

   a. Logs out

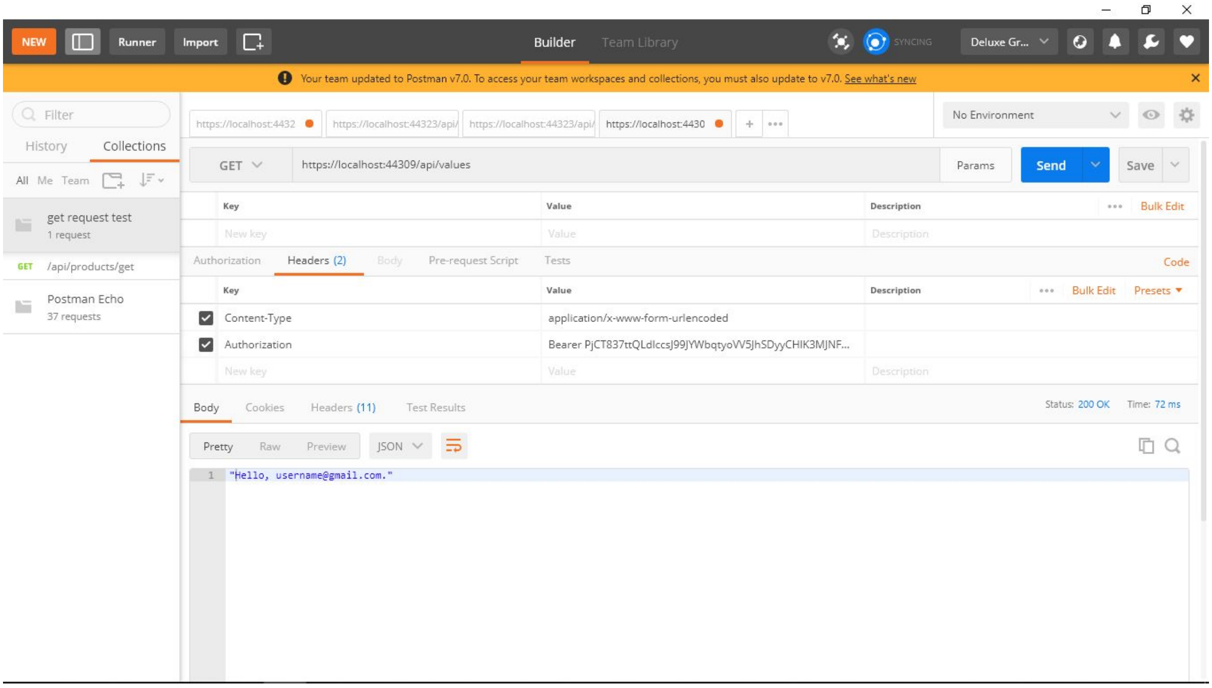
   b. Method: POST

   c. URL: api/Account/Logout

## Testing Screenshots

### Get Values

### Success



GET https://localhost:44309/api/values

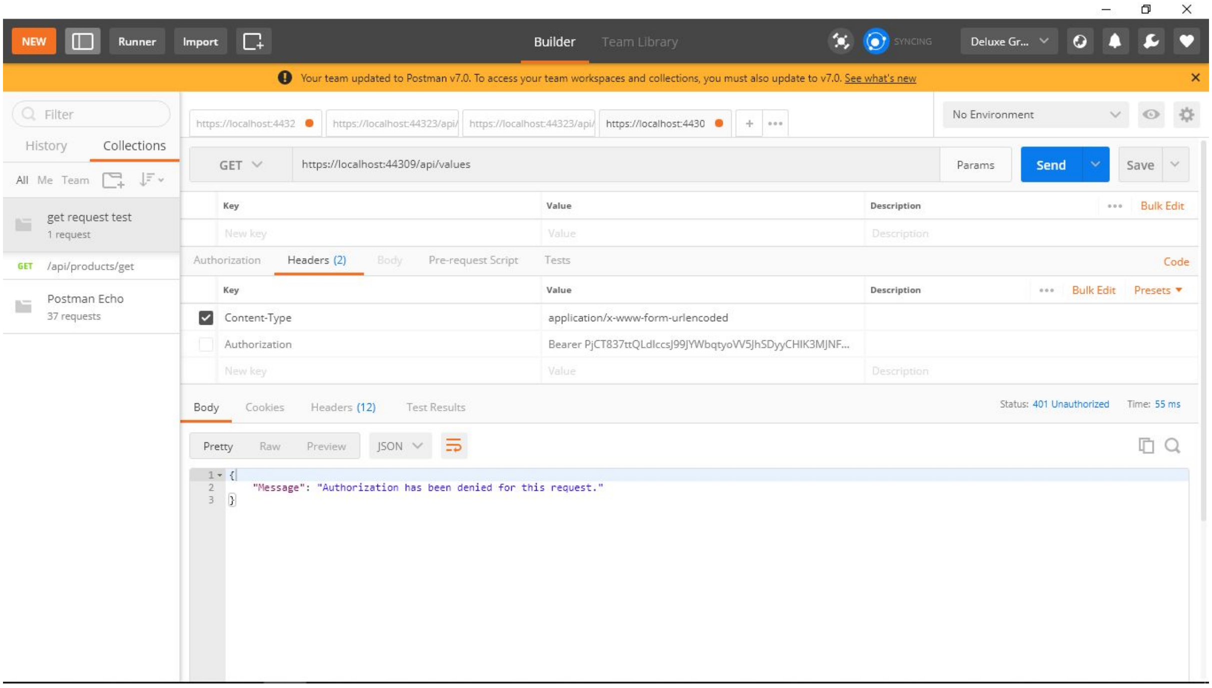
| Key | Value | Description |
|---|---|---|
| New key | Value | Description |

| | Key | Value | Description |
|---|---|---|---|
| ☑ | Content-Type | application/x-www-form-urlencoded | |
| ☑ | Authorization | Bearer PjCT837ttQLdlccsJ99JYWbqtyoVV5JhSDyyCHIK3MJNF... | |
| | New key | Value | Description |

Status: 200 OK Time: 72 ms

```
"Hello, username@gmail.com."
```

## Unauthorized



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

GET https://localhost:44309/api/values

| Key | Value | Description |
|---|---|---|
| New key | Value | Description |

Authorization | Headers (2) | Body | Pre-request Script | Tests

| | Key | Value | Description |
|---|---|---|---|
| ☑ | Content-Type | application/x-www-form-urlencoded | |
| □ | Authorization | Bearer PjCT837ttQLdlccsJ99JYWbqtyoVV5JhSDyyCHIK3MJNF... | |
| | New key | Value | Description |

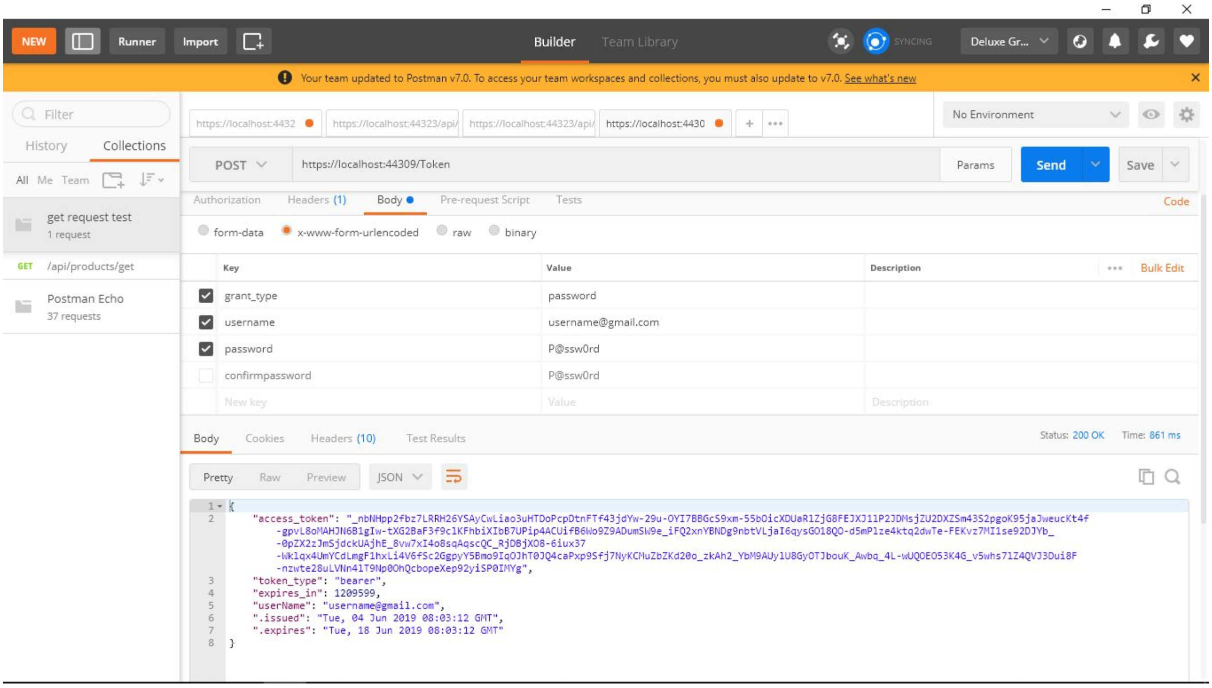
Body | Cookies | Headers (12) | Test Results

Status: 401 Unauthorized Time: 55 ms

```
{
    "Message": "Authorization has been denied for this request."
}
```

## Login

## Success



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

POST https://localhost:44309/Token

Authorization | Headers (1) | Body | Pre-request Script | Tests

○ form-data ● x-www-form-urlencoded ○ raw ○ binary

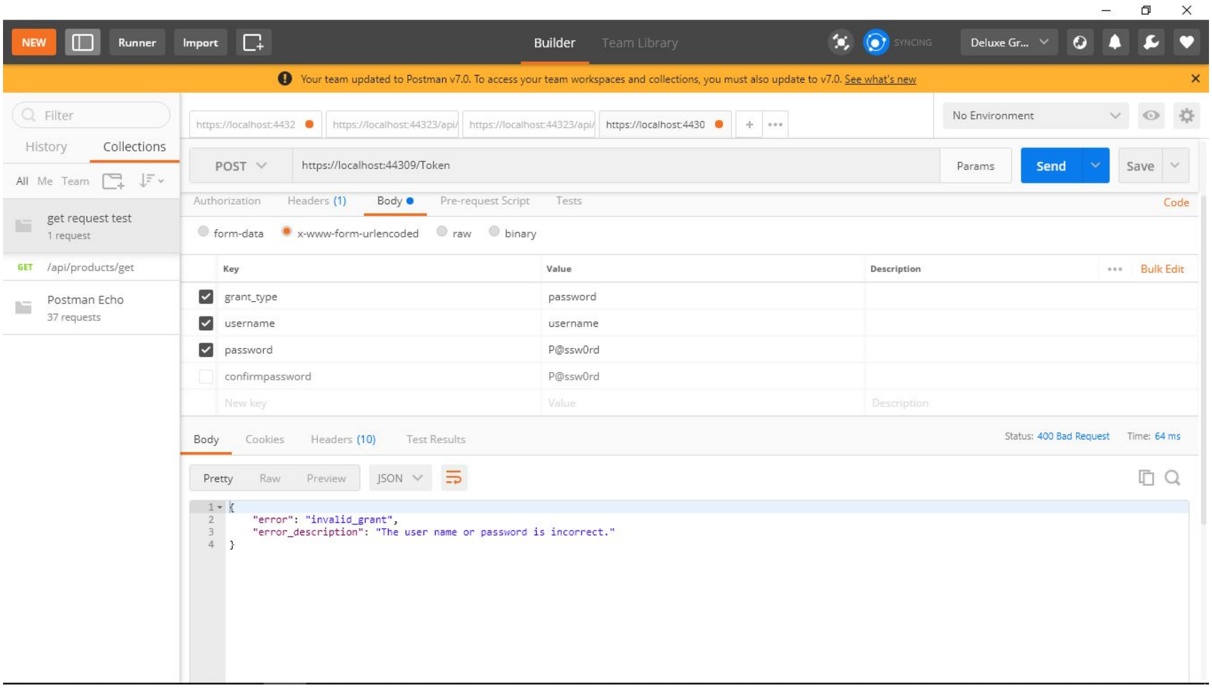
| | Key | Value | Description |
|---|---|---|---|
| ☑ | grant_type | password | |
| ☑ | username | username@gmail.com | |
| ☑ | password | P@ssw0rd | |
| □ | confirmpassword | P@ssw0rd | |
| | New key | Value | Description |

Body | Cookies | Headers (10) | Test Results

Status: 200 OK Time: 861 ms

```
{
    "access_token": "_nbNHpp2fbz7LRRH26YSAyCwLiao3uHTDoPcpDtnFTf43jdYw-29u-OYI7BBGcS9xm-55bOicXDUaRlZjG8FEJXJ1lP2JDMsjZU2DXZSm43S2pgoK95jaJweucKt4f
        -gpvL8oMAHJN6B1gIw-tXG2BaF3f9clKFhbiXIbB7UPip4ACUifB6Wo9Z9ADumSW9e_iFQ2xnYBNDg9nbtVLjaI6qysGO18QO-d5mPlze4ktq2dwTe-FEKvz7MI1se92DJYb_
        -0pZX2zJmSjdckUAjhE_8vw7xI4o8sqAqscQC_RjDBjXO8-6iux37
        -Wklqx4UmYCdLmgF1hxLi4V6fSc2GgpyY5Bmo9IqOJhT0JQ4caPxp9Sfj7NyKCMuZbZKd20o_zkAh2_YbM9AUylU8GyOTJbouK_Awbq_4L-wUQOEO53K4G_v5whs7lZ4QVJ3Dui8F
        -nzwte28uLVNn4lT9Np0OhQcbopeXep92yiSP0IMYg",
    "token_type": "bearer",
    "expires_in": 1209599,
    "userName": "username@gmail.com",
    ".issued": "Tue, 04 Jun 2019 08:03:12 GMT",
    ".expires": "Tue, 18 Jun 2019 08:03:12 GMT"
}
```

## Invalid credentials



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

POST https://localhost:44309/Token

Authorization | Headers (1) | Body ● | Pre-request Script | Tests

○ form-data ● x-www-form-urlencoded ○ raw ○ binary

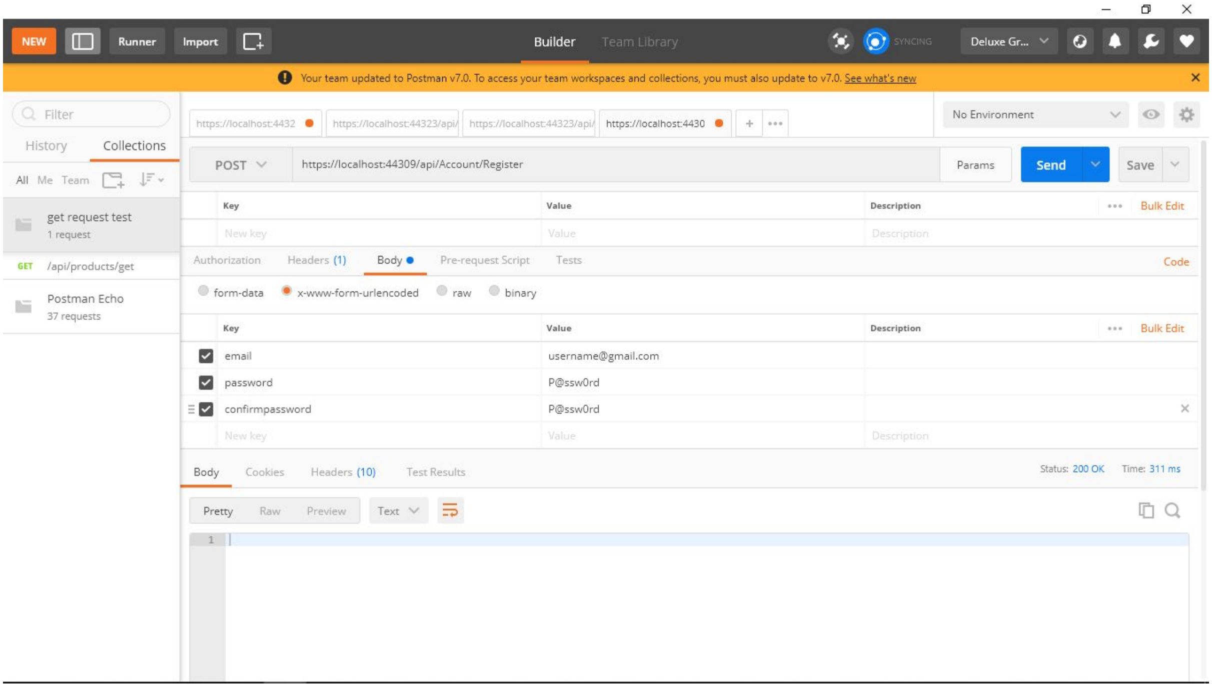
| | Key | Value | Description |
|---|---|---|---|
| ☑ | grant_type | password | |
| ☑ | username | username | |
| ☑ | password | P@ssw0rd | |
| □ | confirmpassword | P@ssw0rd | |
| | New key | Value | Description |

Body | Cookies | Headers (10) | Test Results — Status: 400 Bad Request Time: 64 ms

```
{
    "error": "invalid_grant",
    "error_description": "The user name or password is incorrect."
}
```

## Register

### Success



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

POST https://localhost:44309/api/Account/Register

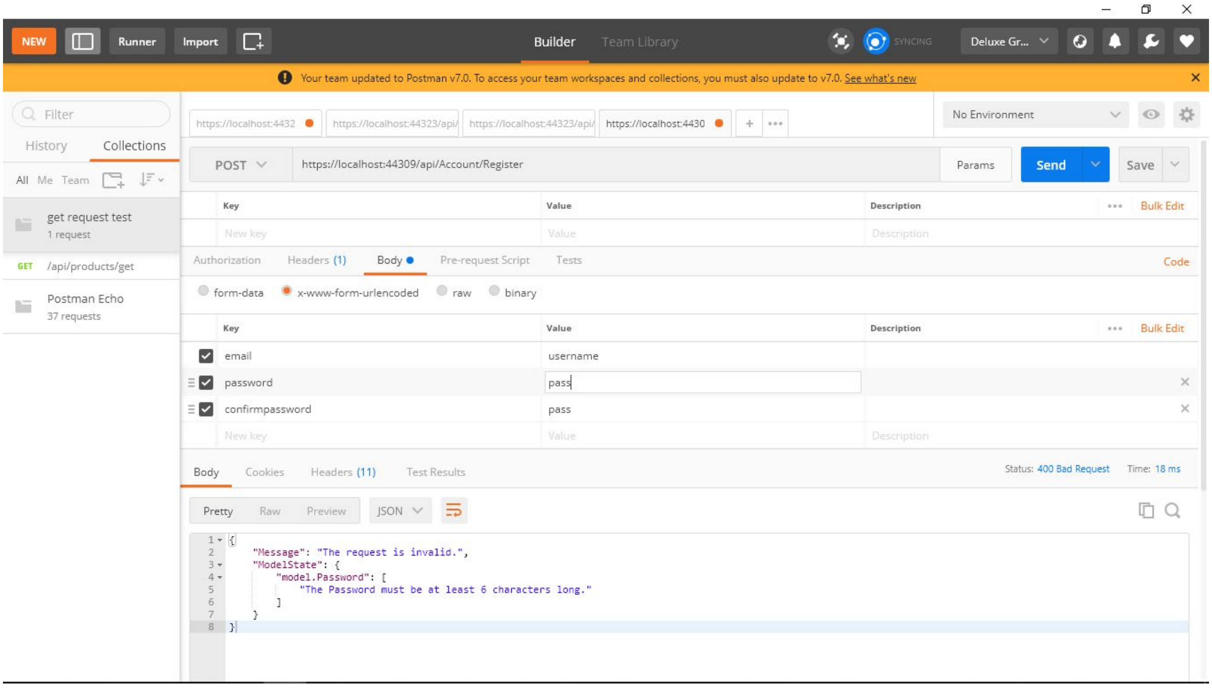
Authorization | Headers (1) | Body ● | Pre-request Script | Tests

○ form-data ● x-www-form-urlencoded ○ raw ○ binary

| | Key | Value | Description |
|---|---|---|---|
| ☑ | email | username@gmail.com | |
| ☑ | password | P@ssw0rd | |
| ☑ | confirmpassword | P@ssw0rd | |
| | New key | Value | Description |

Body | Cookies | Headers (10) | Test Results — Status: 200 OK Time: 311 ms

## Password length < 6



POST https://localhost:44309/api/Account/Register

○ form-data ● x-www-form-urlencoded ○ raw ○ binary

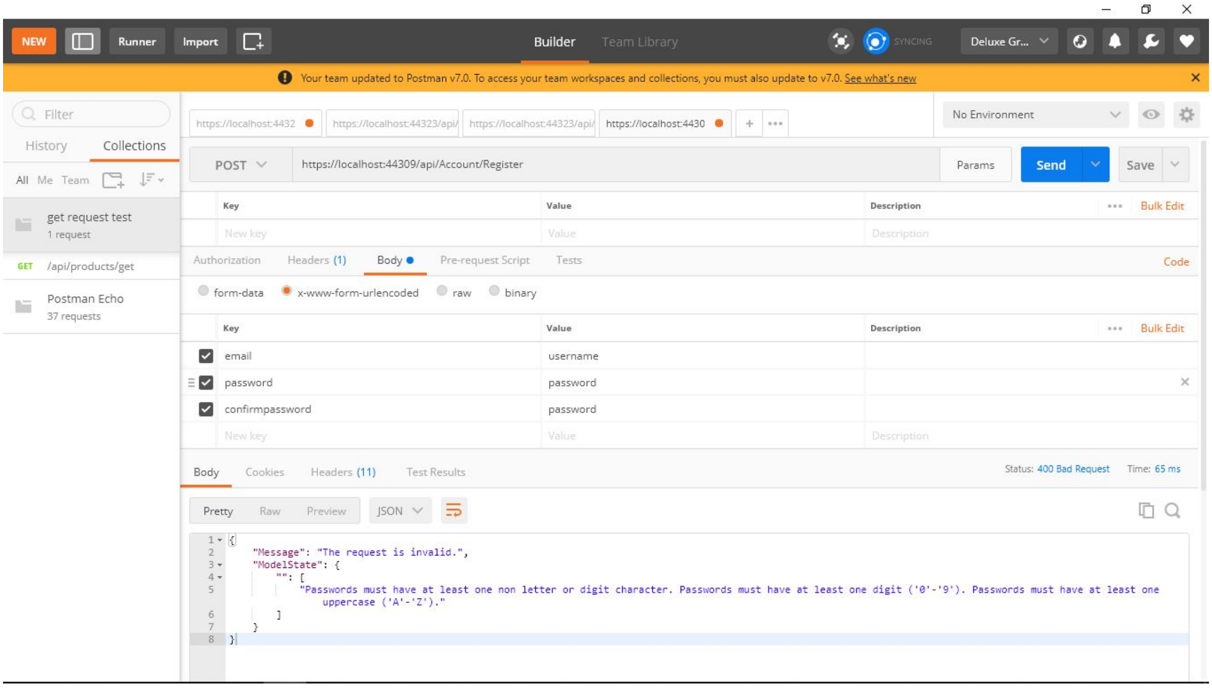
| | Key | Value | Description |
|---|---|---|---|
| ☑ | email | username | |
| ☑ | password | pass | |
| ☑ | confirmpassword | pass | |

Body | Cookies | Headers (11) | Test Results

Status: 400 Bad Request Time: 18 ms

```
{
    "Message": "The request is invalid.",
    "ModelState": {
        "model.Password": [
            "The Password must be at least 6 characters long."
        ]
    }
}
```

## Password is missing a non-letter or digit character & uppercase character



POST https://localhost:44309/api/Account/Register

○ form-data ● x-www-form-urlencoded ○ raw ○ binary

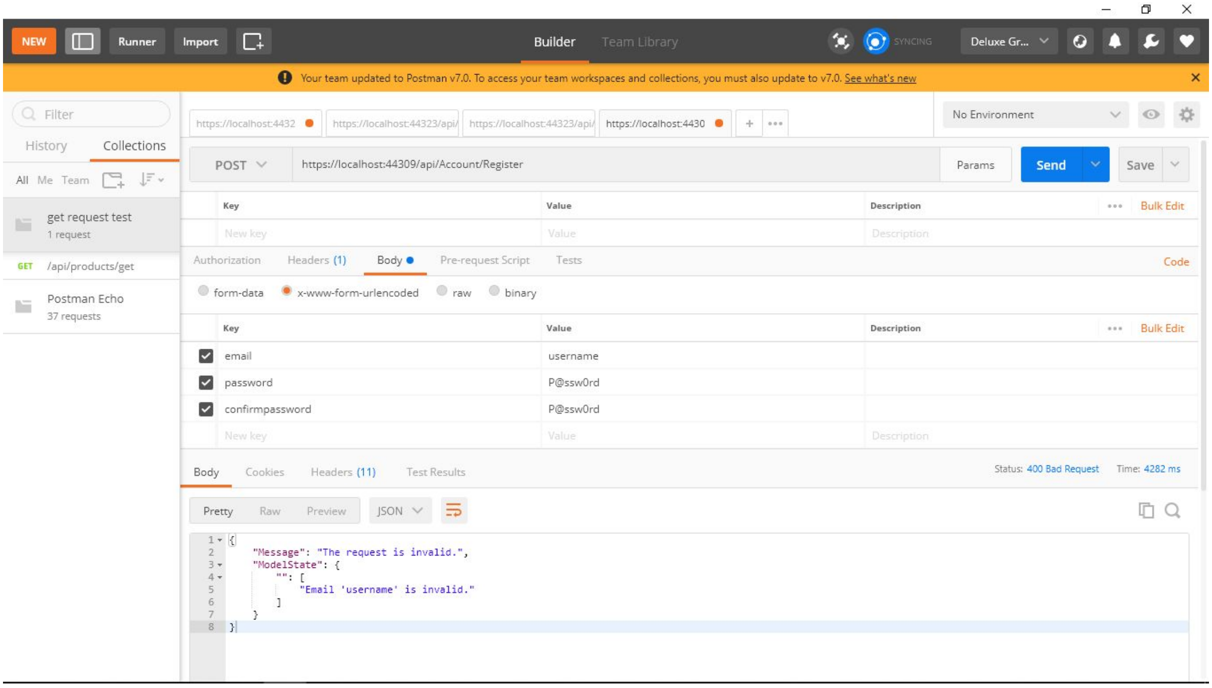
| | Key | Value | Description |
|---|---|---|---|
| ☑ | email | username | |
| ☑ | password | password | |
| ☑ | confirmpassword | password | |

Body | Cookies | Headers (11) | Test Results

Status: 400 Bad Request Time: 65 ms

```
{
    "Message": "The request is invalid.",
    "ModelState": {
        "": [
            "Passwords must have at least one non letter or digit character. Passwords must have at least one digit ('0'-'9'). Passwords must have at least one
                uppercase ('A'-'Z')."
        ]
    }
}
```

## Email is not valid



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

POST https://localhost:44309/api/Account/Register

○ form-data ● x-www-form-urlencoded ○ raw ○ binary

| | Key | Value | Description |
|---|---|---|---|
| ☑ | email | username | |
| ☑ | password | P@ssw0rd | |
| ☑ | confirmpassword | P@ssw0rd | |

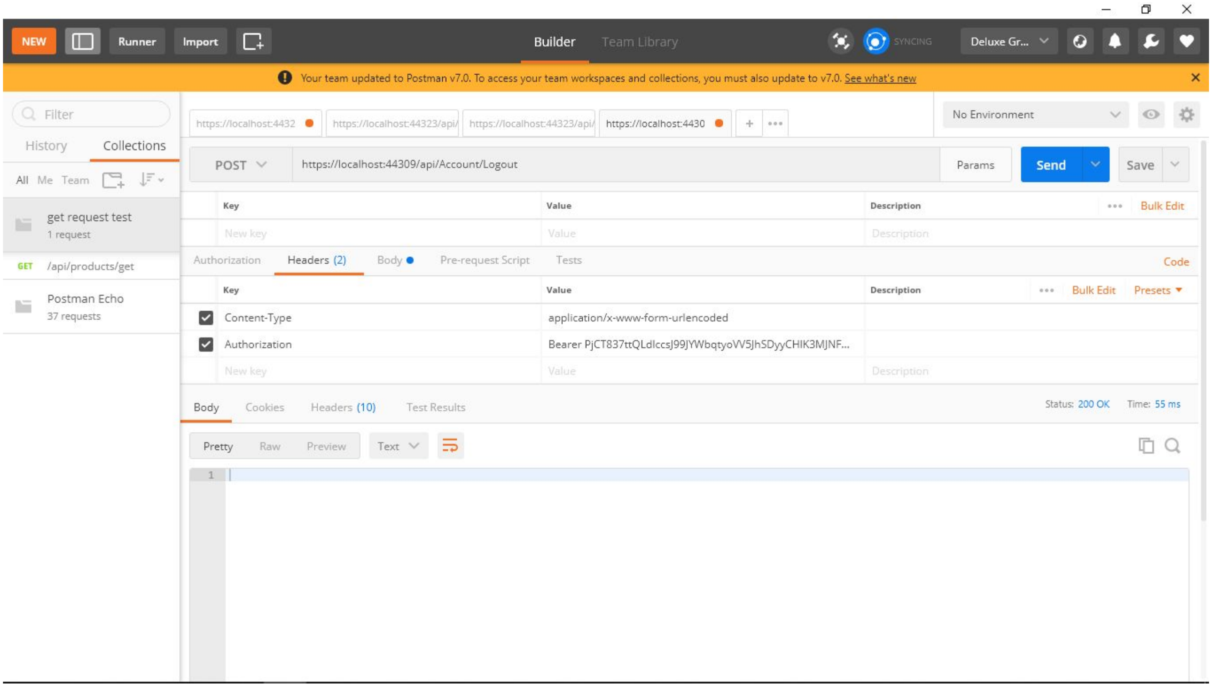
Body Cookies Headers (11) Test Results

Status: 400 Bad Request Time: 4282 ms

```
{
    "Message": "The request is invalid.",
    "ModelState": {
        "": [
            "Email 'username' is invalid."
        ]
    }
}
```

## Logout

### Success



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

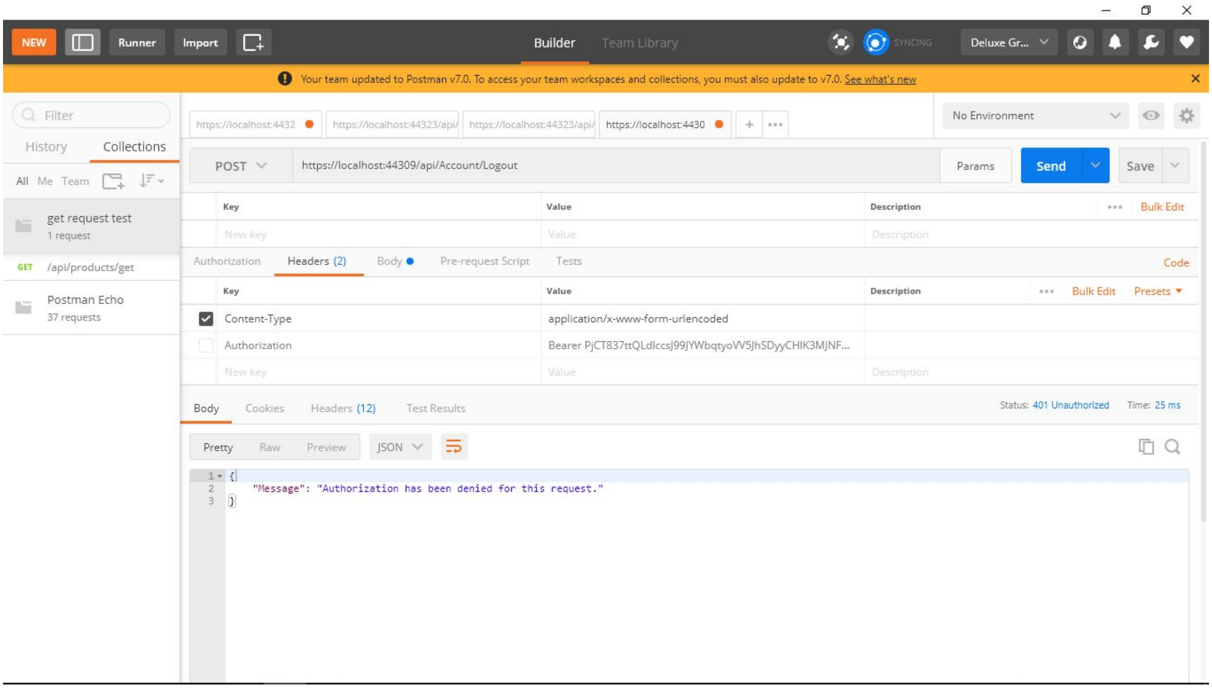
POST https://localhost:44309/api/Account/Logout

| | Key | Value | Description |
|---|---|---|---|
| ☑ | Content-Type | application/x-www-form-urlencoded | |
| ☑ | Authorization | Bearer PjCT837ttQLdlccsJ99JYWbqtyoVV5JhSDyyCHIK3MJNF... | |

Body Cookies Headers (10) Test Results

Status: 200 OK Time: 55 ms

Unauthorized



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

POST https://localhost:44309/api/Account/Logout

Headers (2)

| | Key | Value | Description |
|---|---|---|---|
| ☑ | Content-Type | application/x-www-form-urlencoded | |
| □ | Authorization | Bearer PjCT837ttQLdlccsJ99JYWbqtyoVV5JhSDyyCHIK3MJNF... | |

Body Headers (12) Status: 401 Unauthorized Time: 25 ms

```
{
    "Message": "Authorization has been denied for this request."
}
```

# Task 4

## Talents Search

Image URL used:
https://res.cloudinary.com/dgbrqt08w/image/upload/v1559278270/Map_DTTA_rmn5yt.jpg

### API Documentation

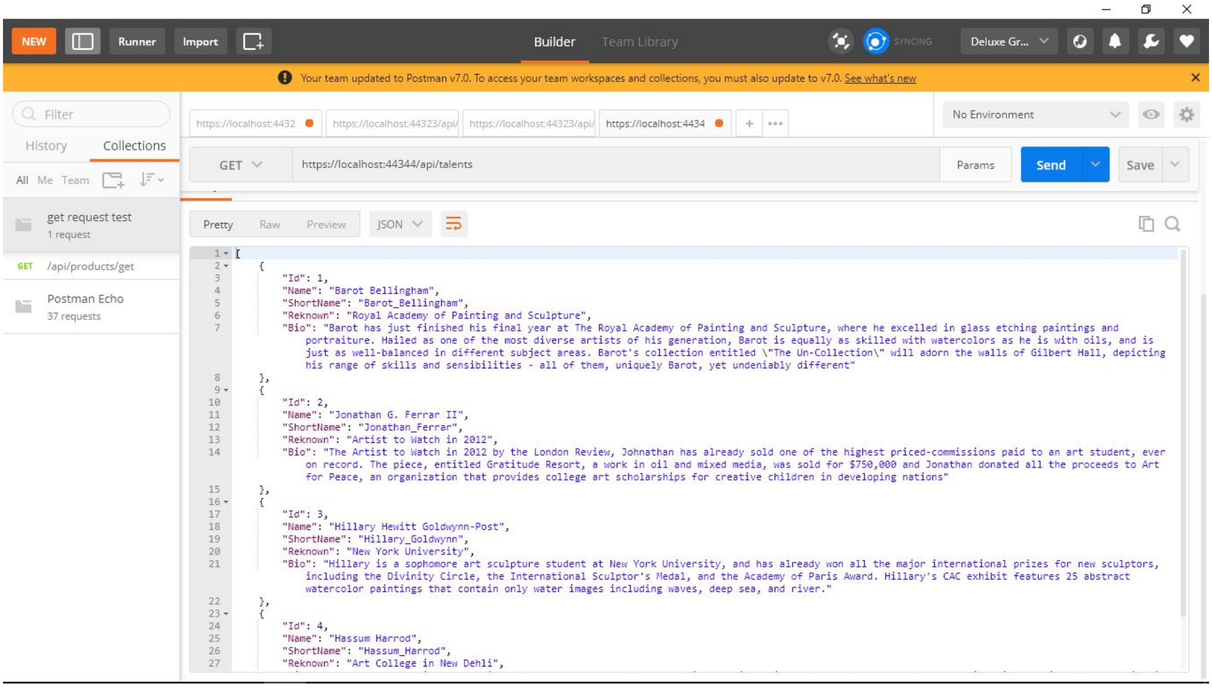
1. Get all Talents
    a. Gets all talents
    b. Method: GET
    c. URL: api/talents
2. Get talent
    a. Gets a single talent specified by ID
    b. Method: GET
    c. URL: api/talents/{id}
    d. Params:
        i. int id
3. Add talent
    a. Adds a talent
    b. Method: POST
    c. URL: api/talents
    d. Params:
        i. Talent talent

4. Edit talent
    a. Edits a talent existing in the repository
    b. Method: PUT
    c. URL: api/talents/{id}
    d. Params
        i. int id
        ii. Talent talent
5. Delete talent
    a. Deletes a talent
    b. Method: DELETE
    c. URL: api/talents/{id}
    d. Params
        i. Int id

## Testing Screenshots

### Get all Talents

### Success



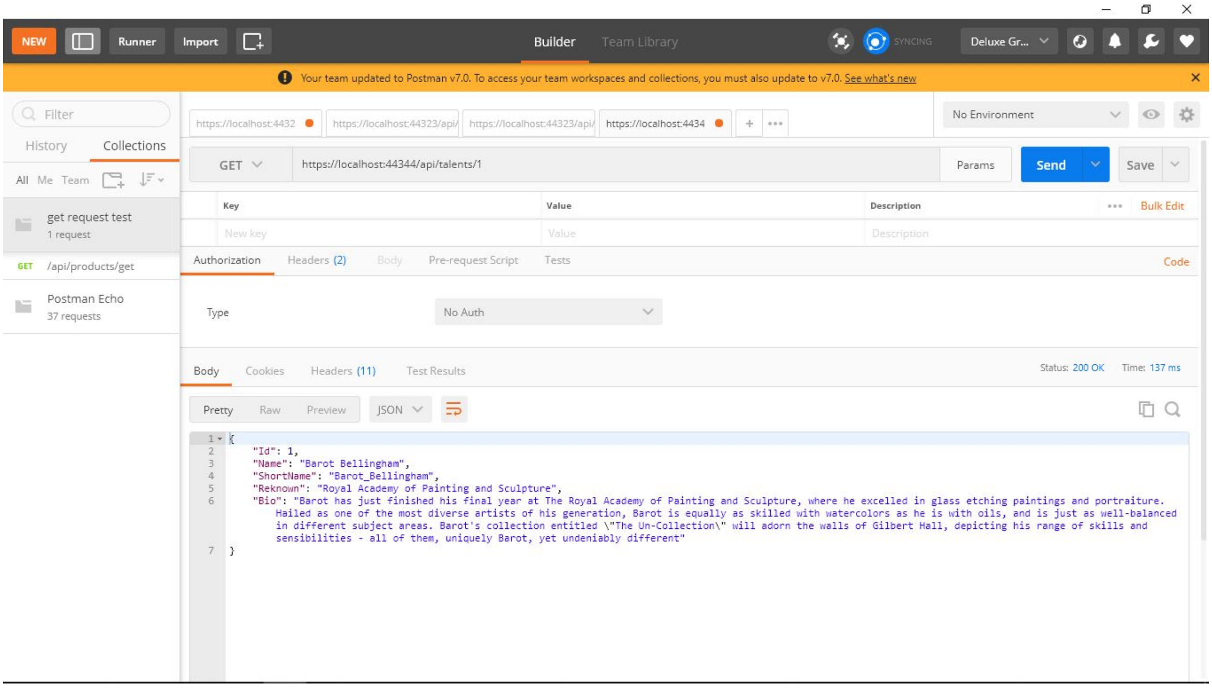
Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

GET https://localhost:44344/api/talents

```
[
    {
        "Id": 1,
        "Name": "Barot Bellingham",
        "ShortName": "Barot_Bellingham",
        "Reknown": "Royal Academy of Painting and Sculpture",
        "Bio": "Barot has just finished his final year at The Royal Academy of Painting and Sculpture, where he excelled in glass etching paintings and
            portraiture. Hailed as one of the most diverse artists of his generation, Barot is equally as skilled with watercolors as he is with oils, and is
            just as well-balanced in different subject areas. Barot's collection entitled \"The Un-Collection\" will adorn the walls of Gilbert Hall, depicting
            his range of skills and sensibilities - all of them, uniquely Barot, yet undeniably different"
    },
    {
        "Id": 2,
        "Name": "Jonathan G. Ferrar II",
        "ShortName": "Jonathan_Ferrar",
        "Reknown": "Artist to Watch in 2012",
        "Bio": "The Artist to Watch in 2012 by the London Review, Johnathan has already sold one of the highest priced-commissions paid to an art student, ever
            on record. The piece, entitled Gratitude Resort, a work in oil and mixed media, was sold for $750,000 and Jonathan donated all the proceeds to Art
            for Peace, an organization that provides college art scholarships for creative children in developing nations"
    },
    {
        "Id": 3,
        "Name": "Hillary Hewitt Goldwynn-Post",
        "ShortName": "Hillary_Goldwynn",
        "Reknown": "New York University",
        "Bio": "Hillary is a sophomore art sculpture student at New York University, and has already won all the major international prizes for new sculptors,
            including the Divinity Circle, the International Sculptor's Medal, and the Academy of Paris Award. Hillary's CAC exhibit features 25 abstract
            watercolor paintings that contain only water images including waves, deep sea, and river."
    },
    {
        "Id": 4,
        "Name": "Hassum Harrod",
        "ShortName": "Hassum_Harrod",
        "Reknown": "Art College in New Dehli",
```

## Get Talent

### Success

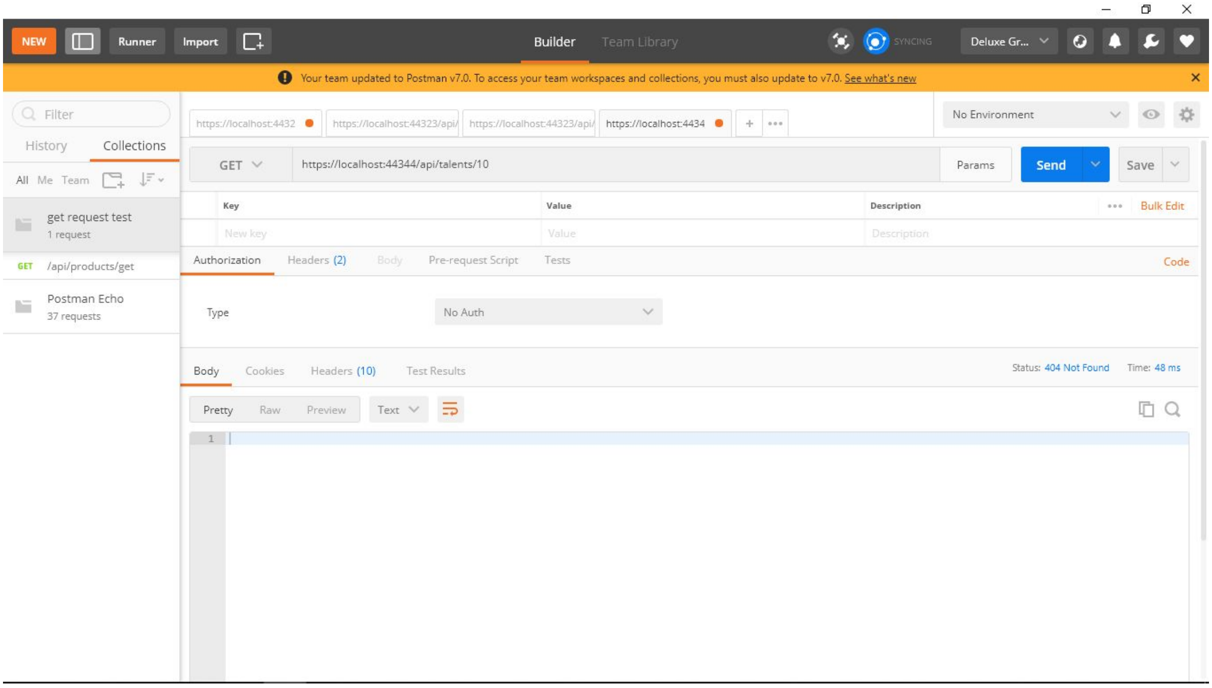


GET https://localhost:44344/api/talents/1

Status: 200 OK Time: 137 ms

```
{
    "Id": 1,
    "Name": "Barot Bellingham",
    "ShortName": "Barot_Bellingham",
    "Reknown": "Royal Academy of Painting and Sculpture",
    "Bio": "Barot has just finished his final year at The Royal Academy of Painting and Sculpture, where he excelled in glass etching paintings and portraiture.
        Hailed as one of the most diverse artists of his generation, Barot is equally as skilled with watercolors as he is with oils, and is just as well-balanced
        in different subject areas. Barot's collection entitled \"The Un-Collection\" will adorn the walls of Gilbert Hall, depicting his range of skills and
        sensibilities - all of them, uniquely Barot, yet undeniably different"
}
```

### ID does not exist in list

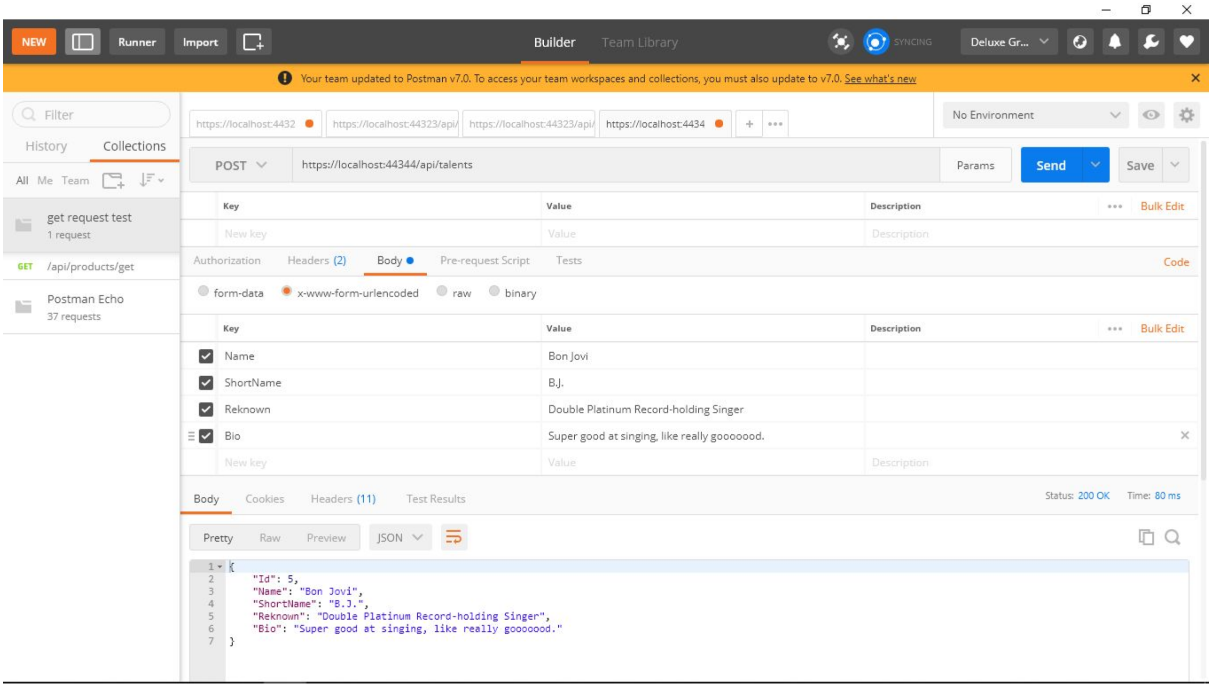


GET https://localhost:44344/api/talents/10

Status: 404 Not Found Time: 48 ms

## Add talent

### Success



POST https://localhost:44344/api/talents

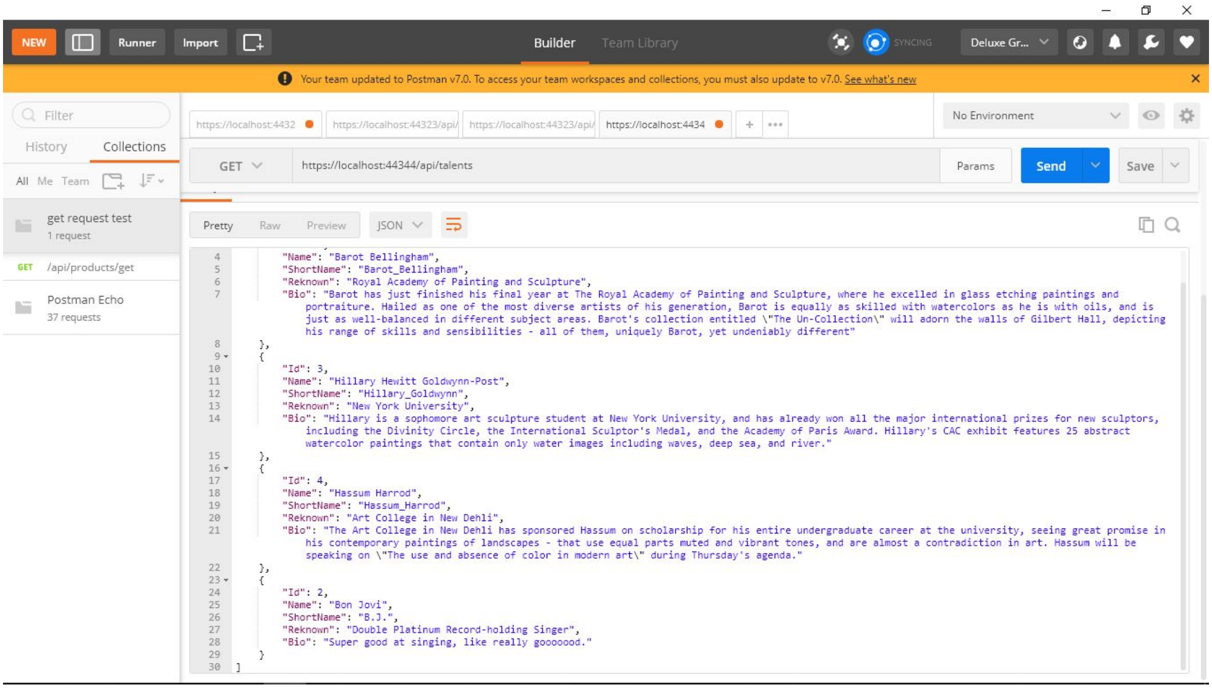
○ form-data ● x-www-form-urlencoded ○ raw ○ binary

| | Key | Value | Description |
|---|---|---|---|
| ☑ | Name | Bon Jovi | |
| ☑ | ShortName | B.J. | |
| ☑ | Reknown | Double Platinum Record-holding Singer | |
| ☑ | Bio | Super good at singing, like really gooooood. | |
| | New key | Value | Description |

Status: 200 OK Time: 80 ms

```
{
    "Id": 5,
    "Name": "Bon Jovi",
    "ShortName": "B.J.",
    "Reknown": "Double Platinum Record-holding Singer",
    "Bio": "Super good at singing, like really gooooood."
}
```

### Result

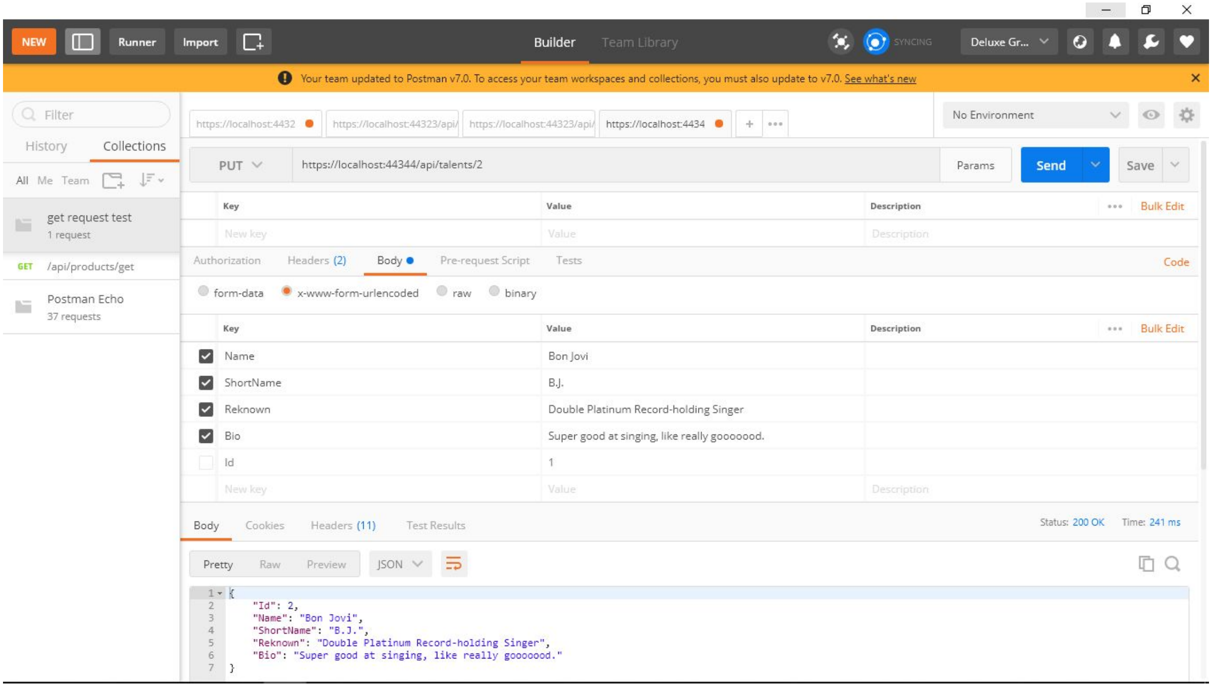


GET https://localhost:44344/api/talents

```
        "Name": "Barot Bellingham",
        "ShortName": "Barot_Bellingham",
        "Reknown": "Royal Academy of Painting and Sculpture",
        "Bio": "Barot has just finished his final year at The Royal Academy of Painting and Sculpture, where he excelled in glass etching paintings and
            portraiture. Hailed as one of the most diverse artists of his generation, Barot is equally as skilled with watercolors as he is with oils, and is
            just as well-balanced in different subject areas. Barot's collection entitled \"The Un-Collection\" will adorn the walls of Gilbert Hall, depicting
            his range of skills and sensibilities - all of them, uniquely Barot, yet undeniably different"
    },
    {
        "Id": 3,
        "Name": "Hillary Hewitt Goldwynn-Post",
        "ShortName": "Hillary_Goldwynn",
        "Reknown": "New York University",
        "Bio": "Hillary is a sophomore art sculpture student at New York University, and has already won all the major international prizes for new sculptors,
            including the Divinity Circle, the International Sculptor's Medal, and the Academy of Paris Award. Hillary's CAC exhibit features 25 abstract
            watercolor paintings that contain only water images including waves, deep sea, and river."
    },
    {
        "Id": 4,
        "Name": "Hassum Harrod",
        "ShortName": "Hassum_Harrod",
        "Reknown": "Art College in New Dehli",
        "Bio": "The Art College in New Dehli has sponsored Hassum on scholarship for his entire undergraduate career at the university, seeing great promise in
            his contemporary paintings of landscapes - that use equal parts muted and vibrant tones, and are almost a contradiction in art. Hassum will be
            speaking on \"The use and absence of color in modern art\" during Thursday's agenda."
    },
    {
        "Id": 2,
        "Name": "Bon Jovi",
        "ShortName": "B.J.",
        "Reknown": "Double Platinum Record-holding Singer",
        "Bio": "Super good at singing, like really gooooood."
    }
]
```

## Edit talent

### Success



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

PUT https://localhost:44344/api/talents/2

○ form-data ● x-www-form-urlencoded ○ raw ○ binary

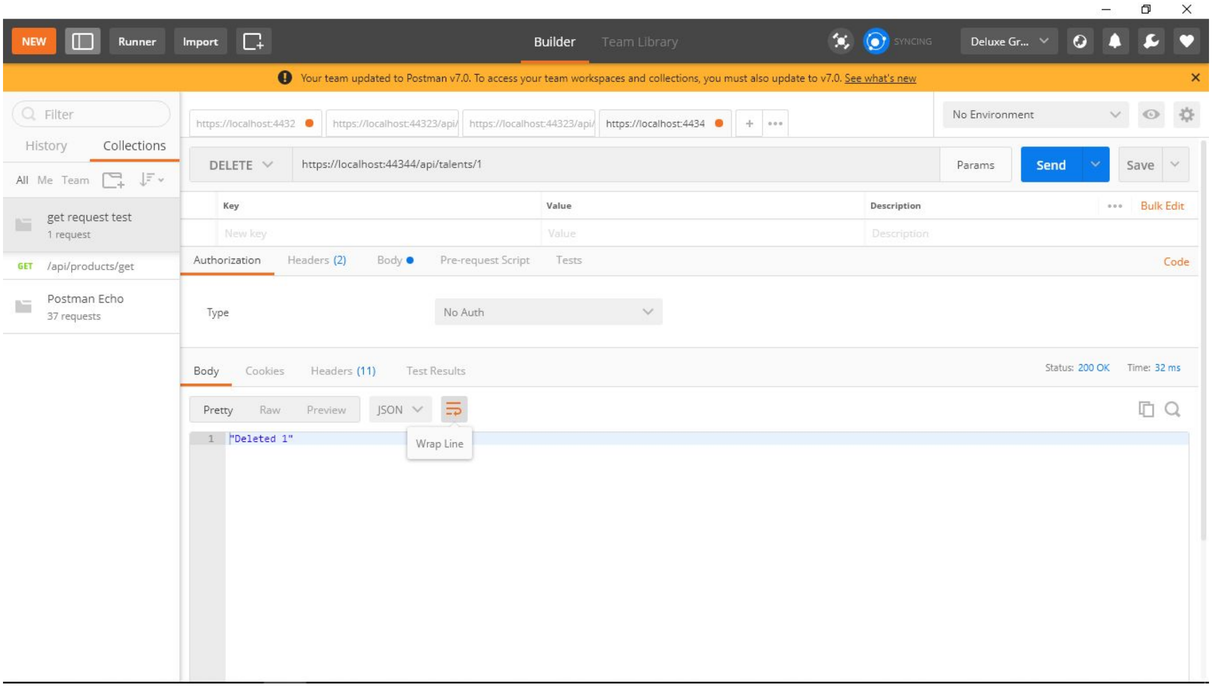
| | Key | Value | Description |
|---|---|---|---|
| ☑ | Name | Bon Jovi | |
| ☑ | ShortName | B.J. | |
| ☑ | Reknown | Double Platinum Record-holding Singer | |
| ☑ | Bio | Super good at singing, like really goooood. | |
| □ | Id | 1 | |
| | New key | Value | Description |

Status: 200 OK Time: 241 ms

```
{
    "Id": 2,
    "Name": "Bon Jovi",
    "ShortName": "B.J.",
    "Reknown": "Double Platinum Record-holding Singer",
    "Bio": "Super good at singing, like really goooood."
}
```

## Delete talent

### Success



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

DELETE https://localhost:44344/api/talents/1

Type No Auth

Status: 200 OK Time: 32 ms

```
"Deleted 1"
```

# Task 5

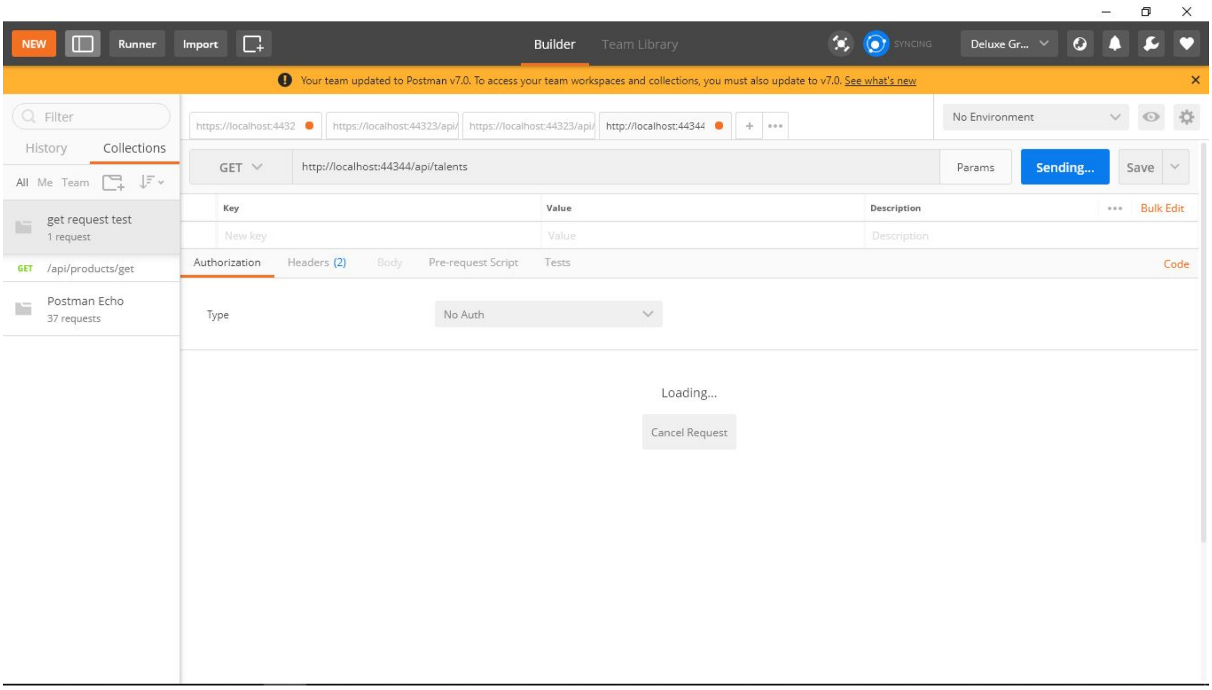
## Secured Talents Search Web API

### API Documentation

Same as Task 4

### Testing Screenshots

#### Getting list of talents with HTTP



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

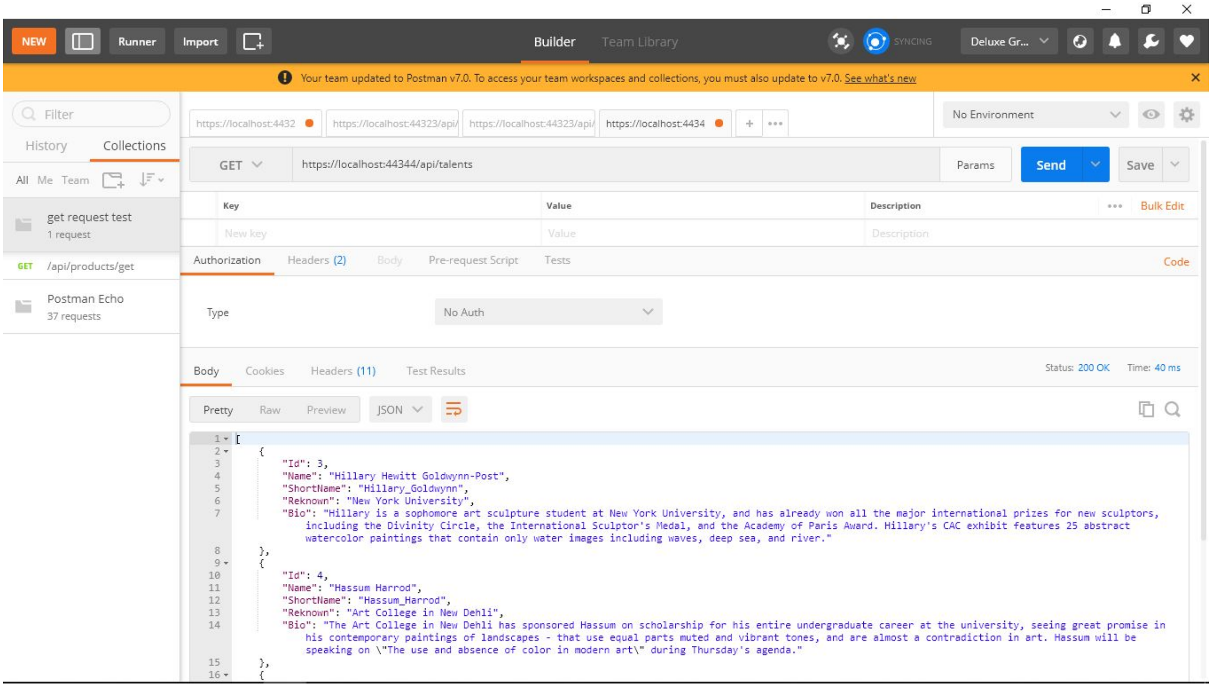
GET http://localhost:44344/api/talents

Type No Auth

Loading...

Postman is stuck at sending a request

Getting list of talents with HTTPS



Your team updated to Postman v7.0. To access your team workspaces and collections, you must also update to v7.0. See what's new

GET https://localhost:44344/api/talents

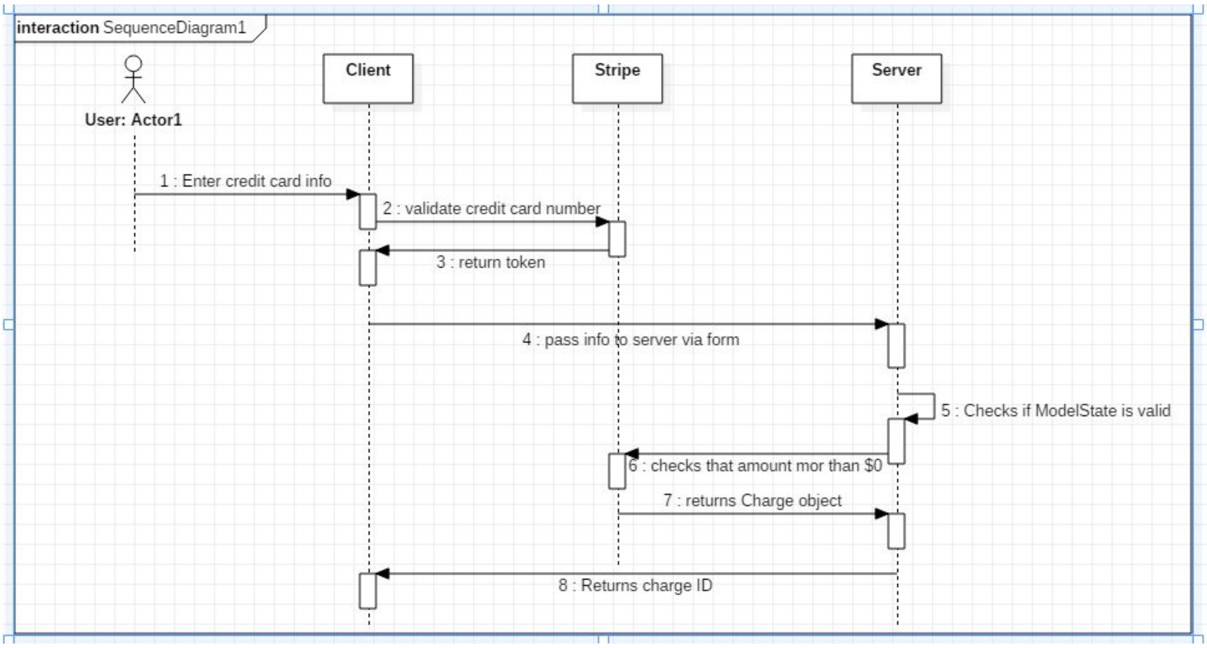
Type: No Auth

Status: 200 OK Time: 40 ms

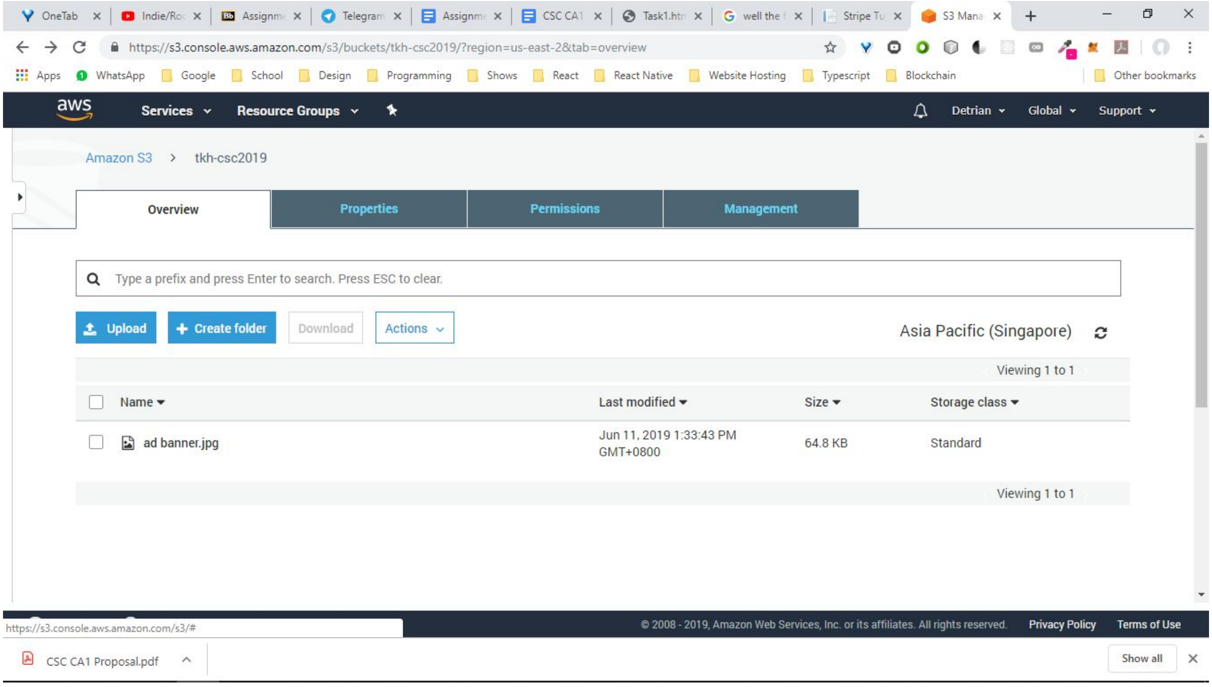
```
[
    {
        "Id": 3,
        "Name": "Hillary Hewitt Goldwynn-Post",
        "ShortName": "Hillary_Goldwynn",
        "Reknown": "New York University",
        "Bio": "Hillary is a sophomore art sculpture student at New York University, and has already won all the major international prizes for new sculptors,
            including the Divinity Circle, the International Sculptor's Medal, and the Academy of Paris Award. Hillary's CAC exhibit features 25 abstract
            watercolor paintings that contain only water images including waves, deep sea, and river."
    },
    {
        "Id": 4,
        "Name": "Hassum Harrod",
        "ShortName": "Hassum_Harrod",
        "Reknown": "Art College in New Dehli",
        "Bio": "The Art College in New Dehli has sponsored Hassum on scholarship for his entire undergraduate career at the university, seeing great promise in
            his contemporary paintings of landscapes - that use equal parts muted and vibrant tones, and are almost a contradiction in art. Hassum will be
            speaking on \"The use and absence of color in modern art\" during Thursday's agenda."
    },
    {
```

# Task 6

## Payment Web API (Stripe)


interaction SequenceDiagram1
User: Actor1
Client
Stripe
Server
1 : Enter credit card info
2 : validate credit card number
3 : return token
4 : pass info to server via form
5 : Checks if ModelState is valid
6 : checks that amount mor than $0
7 : returns Charge object
8 : Returns charge ID

# Store Talents Photo in AWS S3



Amazon S3 > tkh-csc2019

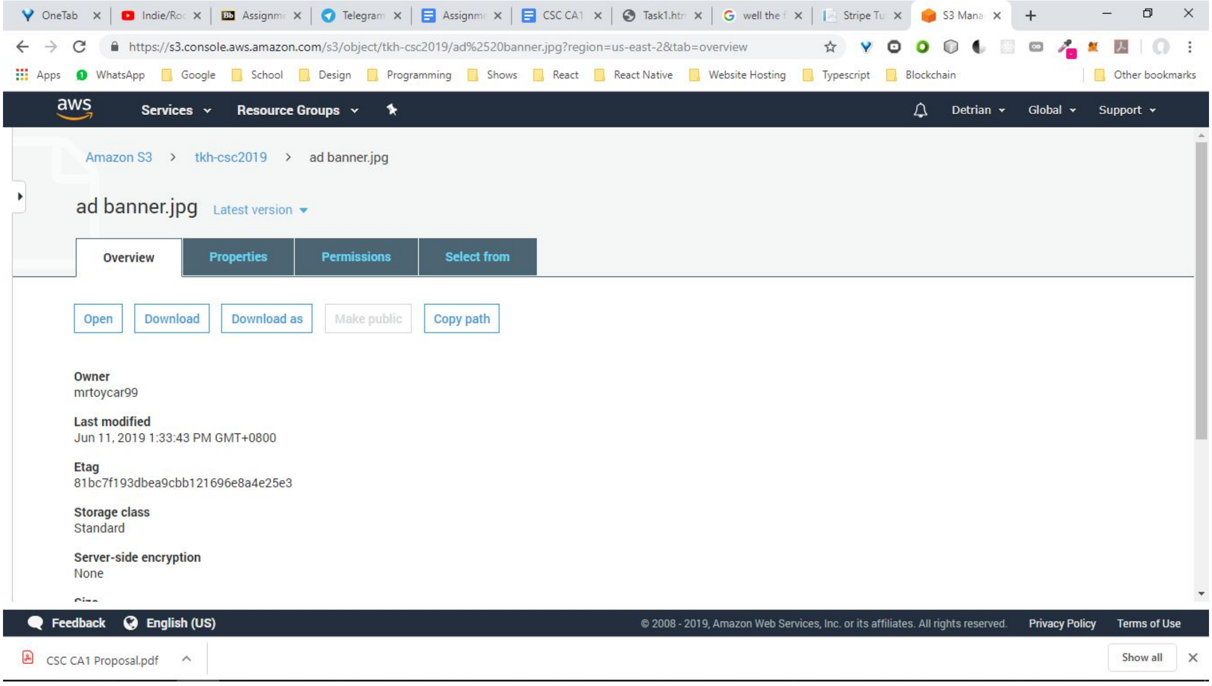
Type a prefix and press Enter to search. Press ESC to clear.

Asia Pacific (Singapore)

Viewing 1 to 1

| □ | Name | Last modified | Size | Storage class |
|---|---|---|---|---|
| □ | ad banner.jpg | Jun 11, 2019 1:33:43 PM GMT+0800 | 64.8 KB | Standard |

Viewing 1 to 1



Amazon S3 > tkh-csc2019 > ad banner.jpg

ad banner.jpg Latest version

**Owner**
mrtoycar99

**Last modified**
Jun 11, 2019 1:33:43 PM GMT+0800

**Etag**
81bc7f193dbea9cbb121696e8a4e25e3

**Storage class**
Standard

**Server-side encryption**
None

# Task 7 (optional)

## Clarifai Client App

Source code is in Task 7 folder