# Edgewords Self-Hosted API Server, .NET Framework, ASP Web using OWIN

Online computer shop product & users list

## Install

Extract and Run the AspNetSelfHostDemo.exe

By default it will run on URL: <http://localhost:2002/api/>

and use edge:edgewords for basic auth

## Command line switches:

Optionally you can provide the port number, response format as command line switches if you want. For example:

EdgeAPIserver.exe 8080

EdgeAPIserver.exe 8080 xml

EdgeAPIserver.exe 8080 json (the default)

## Fields

**Products** [http://localhost:2002/api/products/](http://127.0.0.1:2002/api/products/)**:**

**id**: int (unique ID for each product - generated by the app)

**name**: string (product name - e.g. ‘iPad’)

**price**: int (price - e.g. ‘500’)

**Users** [http://localhost:2002/api/users/](http://127.0.0.1:2002/api/users/)**:**

**userID**: int (unique ID for each user - generated by the app)

**userName**: string

## Authorization

There is no authorization required for products

For Users, any requests require basic authorization (user:password), credentials are:

edge:edgewords

Header would be:

Authorization: Basic ZWRnZTplZGdld29yZHM=

## File Server feature

This also acts as a basic file server from address <http://localhost:2002/>

There are two files hosted you can download:

data.json

testfile.txt

## Requests and response codes

## Products

### GET all products

**Request**: GET - [http://localhost:2002/api/products/](http://127.0.0.1:2002/api/products/)

**code**: 200 - OK

**body**:

[

  {

    "id": 1,

    "name": "iPad",

    "price": 500

  },

  {

    "id": 2,

    "name": "iPhone X",

    "price": 900

  },

  {

    "id": 3,

    "name": "Google Tablet",

    "price": 400

  }

]

### GET a single product by ID

**Request**: GET - http://localhost:2002/api/products/1

**code**: 200 - Ok, 404 - NotFound

**body**:

{

  "id": 1,

  "name": "iPad",

  "price": 500

}

### Add a product

**Request**: POST - http://localhost:2002/api/products/

{

"name": "PC",

"price": 250

}

**code:** 201 - Created, 400 - BadRequest

**body**:

{

  "id": 4,

  "name": "PC",

  "price": 250

}

### Update a product

**Request**: PUT - http://localhost:2002/api/products/1

{

"name": "HDD",

"price": 125

}

**code:**  200 - Ok, 400 - BadRequest

**body**:

{

  "id": 1,

  "name": "HDD",

  "price": 125

}

### Delete a product

**Request:** DELETE - http://localhost:2002/api/products/1

**Code**: 200 - Ok, 400 - BadRequest

**body**:

1

(just the id of the product that was deleted)

## Users

Note - Basic auth required for all users requests! (edge:edgewords)

### Get all users

**Request**: GET: <http://localhost:2002/api/users>

**Code**: 200 - Ok, 400 - BadRequest

**body**:

[

  {

    "userID": 1,

    "userName": "Bob Jones"

  },

  {

    "userID": 2,

    "userName": "Jane Smith"

  },

  {

    "userID": 3,

    "userName": "Jen Booth"

  }

]

### Get all a specific user

**Request**: GET: <http://localhost:2002/api/users>/1

**code**: 200 - Ok, 404 - NotFound

**body**:

{

  "userID": 1,

  "userName": "Bob Jones"

}

### Add a user

**Request**: POST - http://localhost:2002/api/users/

{

"userName": "Tom Jones"

}

**code:** 201 - Created, 400 - BadRequest

**body**:

{

  "userID": 4,

  "userName": "Tom Jones"

}

### Delete a user

**Request:** DELETE - http://localhost:2002/api/users/4

**Code**: 200 - Ok, 400 - BadRequest

**body**:

4

(user id)