How do we differentiate HEP and VET (may be from provider?)

Training

OpenAPI Specification

InRule Workshop

What Is OpenAPI, Swagger Editor, Swagger tools etc.?

**Inrule (**calling the irServer**) Integration with .NET applications using REST Service**

Swagger Tools

Understanding OpenAPI Specification,

Explore and famelirize

<https://editor.swagger.io/>

<https://swagger.io/docs/specification/describing-responses/>

with API Management

**YAML** code: <https://www.youtube.com/watch?v=cdLNKUoMc6c>

YAML is a human friendly data serialization standard for all programming languages. Similar to JSON but without {} [] , .

**#** comments **>** for a very long description text after a variable to render in a single line

| to preserver the long text in different lines and spaces

& to put the variable as text

Variables:

Name: “Ramis”

DOB: 2009-03-25 14:35:20

Male: true

Age: 7

Others: null

We can have variables in objects just like JSON but without {}. For scope put space.

ListHobbies:

* Hiking
* -riding bike

ListBooks: [“book 1”, “book 2”]

<https://www.youtube.com/watch?v=gbF9QZYxAxs>

<https://www.google.com.au/search?q=editor.swagger&rlz=1C1GCEB_enAU808AU808&source=lnms&tbm=vid&sa=X&ved=0ahUKEwiuhvWC3LHdAhWGUd4KHf5vAzIQ_AUIDSgE&biw=1920&bih=974&safe=active&ssui=on>

**swagger doc specs**: has tags array, paths array, securityDefinitions, definitions (e.g. Pet, ApiResponse), externalDocs

|  |  |  |
| --- | --- | --- |
| courses-of-study | POST | [] |
| GET | :uid |
| :uid/courses/ |
| PATCH | :uid |
| DELETE | :uid |

### Sample Response: Single Result with Messages

{

“values”: [

"E559\_campus\_postcode": "D9901",

]

"messages": [

{

"message\_id": "E001",

"severity": "Error",

"description": "Campus Locality (E525) is required."

},

{

"message\_id": "E457",

"severity": "Error",

"description": "Campus PostCode (E559) is invalid."

}

]

}

### Sample Response: Multiple Results with Messages

{

"values": [

{

"UID2\_campuses\_res\_key": 38201,

"E525\_campus\_locality": "Brisbane",

"E559\_campus\_postcode": "A4000",

"links": [

{

"rel": "campus",

"href": " href": "https://<baseurl>/campuses/38201"

}

],

"messages": [

{

"messageId": "msg1",

“severity": "info",

"description": "Successful"

}

]

},

{

"E559\_campus\_postcode": "D9901",

"messages": [

{

"messageId": "E001",

"severity": "Error",

"description": "Campus Locality (E525) is required."

},

{

"messageId": "E457",

"severity": "Error",

"description": "Campus PostCode (E559) is invalid."

}

]

}

]

}

DHS will be required to present to the DET API gateway a valid public key to access DET TCSI API endpoints.

and present it to the DET api gateway in the header information of each HTTP API key (within the element “api-key”) where it has been encoded in the required string format.

The DET API gateway will valideate the provided public key against private keys held within the DET Key Vault on Azure.

## Request Header Information

| Header Name | Description | Remarks |
| --- | --- | --- |
| provider-String-timestamp | The String and timestamp when provider submits the request to DHS. | String timestamp in UTC format with time zone in the ‘Z’ notation. |
| dhs-String-timestamp | The String and timestamp when DHS sends the request to DET. | String timestamp in UTC format with time zone in the ‘Z’ notation. |
| accept | Specifies the valid content-type in the request message. Only the JSON format will be supported. | Value should be ‘application/json’. |
| content-type | Indicates the content-type in the request itself. Only the JSON format will be supported. | Value should be ‘application/json’. |
| organisation-id | The unique code of the education provider as supplied by DET when the organisation was registered as a provider. | Valid provider code. |
| organisation-name | The name of the organisation as registered with DET. |  |
| provider-type | The provider type category for which the education provider is classified when registered with DET. | Values should be ‘HEP’, ‘TAC’ or ‘VET’. The value should reflect the nature of the submission being made. |
| user-name | The login name of user who initiated the request using the Student Management System (SMS). | This should be the name of the person logged into the SMS as the time of the request submission. |
| message-id | The unique identified that has been allocated by DHS for each of the request. | The message-id must be unique across all message submitted by the software for that organisation / education provider. |
| api-key | The API Access Key obtained from DET confirming the consumer’s identity and authorisation to call the API endpoint. | This key will be exchanged manually. Keys will expire every 2 years. |

| Response Code | Response Code Description |
| --- | --- |
| 200 | Success: The request was successful. |
| 201 | Success: The request was successful and one or more entities were created. |
| 202 | Accepted but not Processed: The request has been accepted for processing, but the processing has not been completed. |
| 204 | No Information to Send Back: The server has fulfilled the request but does not need to return an entity-body. |
| 207 | Partial Success: Part of the request was successful, while other parts of the request encountered one or more errors. |
| 208 | Already Reported: The information has already been submitted to the system, but no further action will be taken. |
| 301 | Moved Permanently: The requested resource has been assigned a new permanent URI and any future references to this resource SHOULD use one of the returned URIs. |
| 302 | Not Found: The requested resource resides temporarily under a different URI. Since the redirection might be altered on occasion, the client SHOULD continue to use the Request-URI for future requests. |
| 304 | Not Modified: If the client has performed a conditional GET request and access is allowed, but the document has not been modified, the server SHOULD respond with this status code. |
| 400 | Bad Request: A validation resulted in the request being rejected. |
| 401 | Unauthorised: No authentication credential provided or authentication has failed. |
| 403 | Forbidden: The authenticated entity used for the request has been locked, expired, or it is not setup to access the requested API. |
| 404 | Not Found: The URL path or the requested record was not found. |
| 405 | Method Not Allowed: The format of the content does not match the allowable request content type. Only JSON is supported. |
| 406 | Not Acceptable: The specified content type in the ACCEPT header field contain an unsupported format. Only JSON is supported. |
| 415 | Unsupported Media Type: Unable to interpret the format of the content. |
| 500 | Unexpected Condition/Internal Server Error: The server encountered an unexpected condition which prevented it from fulfilling the request. |
| 501 | Facility Required not Supported: The server does not support the functionality required to fulfil the request. This is the appropriate response when the server does not recognize the request method and is not capable of supporting it for any resource. |
| 502 | Bad Gateway: Workload error/server overloaded. The server, while acting as a gateway or proxy, received an invalid response from the upstream server it accessed in attempting to fulfil the request. |
| 503 | Internal Gateway Timeout: The server, while acting as a gateway or proxy, did not receive a timely response from the upstream server specified by the URI. |

but atleast proved one field