TutoringTrain Webservice

REST-DOKU

V1.7

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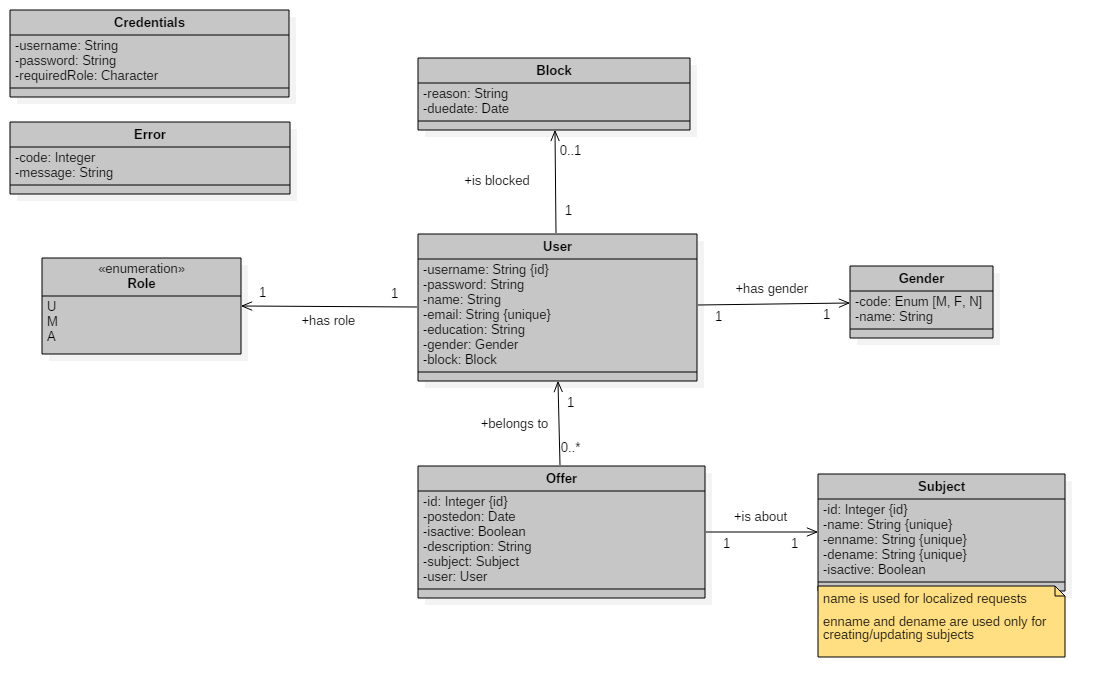
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General

**Data Model:**



**Only JSON format is supported.**

All JSON attributes marked in **THIS COLOR** are optional.

Date format is: “**yyyy-MM-dd'T'hh:mm:ssZ**”  
Example: **2017-09-03T09:45:12+0200**

Methods

1. Security & Authentication

Authentication is managed via session tokens. This is a randomly generated 32-character string which is used to identify the logged in user.

1. Obtaining a session token

**Note:** A new session token is generated every time this method is called with valid credentials.

A token expires 24 hours after its creation.

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/authentication | None |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "username": "testuser",  "password": "098f6bcd4621d373cade4e832627b4f6",  "requiredRole": "A"  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | 654d4e57c9a868dd87759268b225ae44 |
| **401** | Password and/or username are invalid. |
| **403** | User cannot authenticate himself in current context. (eg. normal user tries to log in with admin tool 🡪 set requiredRole attribute for this to work) |
| **450** | User is currently blocked. (Reason is given in response body) |

1. Using the session token

Once a session token has been acquired it can be used to call all other methods. An exception is registering a User as this method does not require any authentication.

For every request the token has to be placed in the “Authorization”-Header in the following format:

“Bearer <token>”

**Example:**



A method called without a session token returns **401** HTTP status.

If **401** is returned when a session token was provided it can be assumed that the token has expired or is invalid. In this case you can try to acquire a new token.

If **403** is returned the user associated with the session key has insufficient privileges to perform that method.

If **450** is returned the user associated with the session key has been blocked.

If **451** is returned, the provided JSON-text is invalid. Further details might be given in the returned Error.

If **422** is returned, a provided value violated a constraint. Further details might be given in the returned Error.

If **500** is returned an unknown error happened. Further details might be given in the returned Error.

These response codes apply to all methods described below but are not mentioned there. Only method-specific response codes are listed.

1. Validating the session token

A session token can be validated using the method described below. This is useful since clients can use this feature to check whether a previously obtained, cached token is still valid.   
(Set token in Authorization header for this check)

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/authentication/check | User |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "requiredRole": "A"  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | The token is still valid |
| **401** | The token is not valid (see returned Error for further information) |
| **403** | The user belonging to the session token does not have the required role  (set requiredRole in request body for this to work) |

1. User roles

This System currently supports three roles:

User (**U**), Moderator (**M**) and Admin (**A**)

These roles extend the privileges of their inferior roles, this means a Moderator can perform all actions a User can, and an Admin can perform all actions a Moderator can.

1. Error Handling and Localization

In the event of an error / exception, an Error object of the following structure is returned:

{

"code": <error code>,

"message": <error message>

}

The following error codes exist:

|  |  |
| --- | --- |
| **Code** | **Descrption** |
| 1 | Unknown error – further details might be given in message |
| 2 | Admin only – happens when user without Admin role tries to authenticate when “requiredRole” is set to ‘A’ |
| 3 | Token invalid – the authentication token does not exist |
| 4 | Token expired – the authentication token has expired |
| 5 | Insufficient privileges – the user does not have to required role to perform this action |
| 6 | Username is null – No username was given |
| 7 | Name is null – No name was given (e.g. Create Subject) |
| 8 | User is null – No user was given |
| 9 | Offer is null – No offer was given |
| 10 | Gender is null – No gender was given |
| 11 | Subject is null – No subject was given |
| 12 | User not found – The user was not found |
| 13 | Subject not found – The subject was not found |
| 14 | Offer of user not found – The offer with given id doesn’t exist or wasn’t created by given user |
| 15 | Gender not found – The gender was not found |
| 16 | Invalid email – The given email is of an invalid format |
| 17 | Query parameters missing – “start” and “pageSize” query parameters were not provided |
| 18 | Subject name conflict – The subject name already exists |
| 19 | Username conflict – The username is not available (already in use) |
| 20 | Email conflict – The email is not available (already in use) |
| 21 | Cannot block own user |
| 22 | Cannot unblock own user |
| 23 | Cannot block other admins |
| 24 | Authentication failed – Invalid credentials were provided |
| 25  26  27  28 | Blocked – The user is blocked from using the application |
| 29 | Invalid JSON – The provided JSON-Request is malformed |
| 30 | Constraint violation – As provided parameter violates a constraint (see message for more specific information) |
| 31 | Unsupported Media Type – The provided media type is not PNG or JPG/JPEG. |
| 32 | Subject not active – The provided subject is not active and hence cannot be used. |
| 33 | Start < 0 – The start parameter provided in the query string is < 0 |
| 34 | Page Size <= 0 – The pageSize parameter provided in the query string is <= 0 |
| 35 | Offer not found – The offer with given id doesn’t exist |

While the “code” identifies the error, the “message” attribute provides a more detailed description of the error.

To receive a **localized error message**, set the “Accept-Language”-HTTP Header to the desired language. Currently only English (**en**) and German (**de**) are supported.   
If no “Accept-Language” – Header is provided, English is used by default.

1. User Resource
2. Register User

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/user/register | None |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "name": "Kevin Paul",  "username": "kevin",  "email": "kevin.paul@gmx.at",  "password": "098f6bcd4621d373cade4e832627b4f6",  "education": "HTL",  "gender": "F"  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "username": "kevin",  "role": "U",  "email": "kevin.paul@gmx.at",  "name": "Kevin Paul",  "education": "HTL",  "gender": "F"  } |
| **409** | Username already exists. |

Note: If no password is given, the user is assigned a random 8-character long alphanumeric password. This password is send in the welcome email to the given email address.

1. Get all Users

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/user/all | Admin |

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Type** | **Name** | **Description** |
| Query | start | Start index of users to get |
| Query | pageSize | Maximum number of offers |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | [  {  "username": "kevin",  "role": "U",  "email": "kevin.paul@gmx.at",  "name": "Kevin Paul",  "education": "HTL",  "gender": "F"  },  {  "username": "test",  "role": "U",  "email": "santnere@edu.htl-villach.at",  "name": "wacco",  "education": "HTL",  "gender": "M",  "block": {  "reason": "test"  }  },  {  "username": "wacco",  "role": "A",  "email": "santnere@edu.htl-villach.at",  "name": "wacco",  "education": "HTL",  "gender": "N"  }  ] |
| **455** | Invalid Query String parameters |

1. Get own User

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/user | User |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "username": "wacco",  "role": "A",  "email": "santnere@edu.htl-villach.at",  "name": "wacco",  "education": "HTL",  "gender": "M"  } |

1. Update any User

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| PUT | url/user/update | Admin |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "username": "kevin",  "name": "Paul Kevin",  "email": "coolerkev@gmx.at",  "password": "9d5e3ecdeb4cdb7acfd63075ae046672",  "education": "HTL",  "gender": "N"  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |
| **453** | User not found |

1. Update own User

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| PUT | url/user/update/own | User |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "name": "Elias Santner",  "email": "santnere@edu.htl-villach.at",  "password": "098f6bcd4621d373cade4e832627b4f6",  "education": "HTL",  "gender": "N"  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |

1. Block User

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/user/block | Admin |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "username": "test",  "reason": "test",  "duedate": "2017-09-03T09:45:12+0200"  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |
| **456** | Error blocking user. (Further details may be provided via body) |

1. Unblock User

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/user/unblock/{username} | Admin |

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Type** | **Name** | **Description** |
| Path | Username | Username of user to unblock |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |

1. Get all Genders

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/user/gender | User |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | [  {  "code": "F",  "name": "Female"  },  {  "code": "M",  "name": "Male"  },  {  "code": "N"  "name": "Unspecified"  }  ] |

1. Get User Count

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/user/count | User |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | 10 |

1. Get Avatar

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/user/avatar/{username} | User |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | Avatar is returned with format "image/jpg" |
| **204** | User has no avatar |

1. Get Own Avatar

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/user/avatar | User |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | Avatar is returned with format "image/jpg" |
| **204** | User has no avatar |

1. Set Avatar

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/user/avatar | User |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| multipart form data | See example Java program (6.1) |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | Avatar is returned with format "image/jpg" |
| **204** | User has no avatar |

1. Reset Own Avatar

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| DELETE | url/user/avatar | User |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |

1. Reset Avatar

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| DELETE | url/user/avatar/{username} | Admin |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |

1. Reset Properties of own User

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/user/reset | User |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | ["education", "name"] |

**Possible Properties**Education, Name  
  
**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |
| **451** | Invalid property provided |

1. Reset Properties of any User

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/user/reset/{username} | Admin |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | ["education", "name"] |

**Possible Properties**Education, Name  
  
**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |
| **451** | Invalid property provided |

1. Searching

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/user/search | Admin |

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Type** | **Name** | **Description** |
| Query | start | Start index of users to get |
| Query | pageSize | Maximum number of offers |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "criteria": [  {  "key": "USERNAME",  "value": "Adm",  "operation": "CONTAINS",  "ignoreCase": true  },  {  "key": "USERNAME",  "value": "in",  "not": true,  "operation": "ENDS\_WITH",  "ignoreCase": true  },  {  "key": "GENDER",  "value": "U",  "not": true,  "operation": "EQ"  }  ],  "order": [  {  "prop": "USERNAME",  "direction": "ASC"  }  ]  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | A list of all found users is provide in the response body, similar to “Get All Users” |
| **451** | Invalid property provided, e.g. Key ‘XY’ or Operation ‘adfgsdg’ |
| **455** | Invalid Query String parameters |

All given criteria must be met for an user to be returned.

**Keys**

|  |  |
| --- | --- |
| **Name** | **Type** |
| USERNAME | STRING |
| NAME | STRING |
| EDUCATION | STRING |
| ROLE | CHAR |
| GENDER | CHAR |

**Operations**

|  |  |
| --- | --- |
| **Type** | **Operations** |
| STRING | EQ CONTAINS STARTS\_WITH ENDS\_WITH |
| CHAR | EQ |

**Order Directions**

|  |
| --- |
| **Direction** |
| ASC |
| DESC |

1. Offer Resource
2. Create Offer

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/offer | User |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "description": "This is just a test offer",  "headline": "Test offer",  "subject": {  "id": 3  }  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "id": 1,  "postedon": "2017-10-04T07:18:39+0200",  "isactive": true,  "description": "This is just a test offer",  "headline": "Test offer",  "subject": {  "id": 1,  "name": "Englisch",  "isactive": true  },  "user": {  "username": "wacco"  }  } |
| **452** | Subject not found |
| **457** | Subject is not active |

1. Update Offer

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| PUT | url/offer | User |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "id": 1,  "isactive": false,  "description": "This is just a test offer",  "subject": {  "id": 1  },  "headline": "Test offer"  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |
| **452** | Subject not found |
| **454** | Offer not found |
| **457** | Subject is not active |

Note: Only Admins can update offers of other users. If a Moderator or normal User tries to update an offer not created by himself, an error is returned.

1. Get newest Offers

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/offer/new | User |

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Type** | **Name** | **Description** |
| Query | start | Start index of offers to get |
| Query | pageSize | Maximum number of offers |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | [  {  "id": 2,  "postedon": "2017-10-04T07:27:58+0200",  "isactive": true,  "description": "This is just a test offer",  "headline":"Test offer 2"  "subject": {  "id": 1,  "name": "Englisch",  "isactive": true  },  "user": {  "username": "wacco"  }  },  {  "id": 1,  "postedon": "2017-10-04T07:18:39+0200",  "isactive": false,  "description": "This is just a test offer",  "headline":"Test"  "subject": {  "id": 1,  "name": "Englisch",  "isactive": true  },  "user": {  "username": "wacco"  }  }  ] |
| **455** | Query parameters were not given |

1. Get newest Offers of User

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/offer/new/{username} | User |

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Type** | **Name** | **Description** |
| Path | Username | Username of user to get newest offers of |
| Query | start | Start index of offers to get |
| Query | pageSize | Maximum number of offers |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | [  {  "id": 2,  "postedon": "2017-10-04T07:27:58+0200",  "isactive": true,  "description": "Test offer 2",  "subject": {  "id": 1,  "name": "Englisch",  "isactive": true  },  "user": {  "username": "wacco"  }  },  {  "id": 1,  "postedon": "2017-10-04T07:18:39+0200",  "isactive": false,  "description": "This is just a test offer",  "subject": {  "id": 1,  "name": "Englisch",  "isactive": true  },  "user": {  "username": "wacco"  }  }  ] |
| **453** | User not found |
| **455** | Query parameters were not given |

1. Get Offer Count

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/offer/count | User |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | 10 |

1. Reset Properties of Offer

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/offer/reset/{id} | Admin |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | ["duedate"] |

**Possible Properties**Duedate  
  
**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |
| **451** | Invalid property provided |
| **454** | Offer not found |

Note: Only Admins can reset properties of offers other users created. If a Moderator or normal User tries this, an error is returned.

1. Searching

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/offer/search | User |

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Type** | **Name** | **Description** |
| Query | start | Start index of users to get |
| Query | pageSize | Maximum number of offers |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "criteria": [  {  "key": "ISACTIVE",  "value": true,  "not": false,  "operation": "EQ"  },  {  "key": "POSTEDON",  "value": "2017-10-20T12:00:00+0200",  "not": false,  "operation": "BEFORE\_EQ"  },  {  "key": "DESCRIPTION",  "value": "you",  "not": false,  "operation": "CONTAINS"  }  ],  "order": [  {  "key": "POSTEDON",  "direction": "DESC"  }  ]  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | A list of all found offers is provide in the response body, similar to “Get Newest Offers” |
| **451** | Invalid property provided, e.g. Key ‘XY’ or Operation ‘adfgsdg’ |
| **455** | Invalid Query String parameters |

All given criteria must be met for an offer to be returned.

**Keys**

|  |  |
| --- | --- |
| **Name** | **Type** |
| ID | NUMBER |
| POSTEDON | DATE |
| ISACTIVE | BOOLEAN |
| DESCRIPTION | STRING |
| HEADLINE | STRING |
| SUBJECT | NUMBER |
| USERNAME | STRING |

**Operations**

|  |  |
| --- | --- |
| **Type** | **Operations** |
| STRING | EQ CONTAINS STARTS\_WITH ENDS\_WITH |
| DATE | EQ BEFORE (does NOT include date)  AFTER (does NOT include date)  BEFORE\_EQ (does include date)  AFTER\_EQ (does include date) |
| BOOLEAN | EQ |
| NUMBER | EQ  GT  LT  GTE  LTE |

**Order Directions**

|  |
| --- |
| **Direction** |
| ASC |
| DESC |

1. Subject Resource
2. Create Subject

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| POST | url/subject | User |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "dename": "Programmieren",  "enname": "Programming"  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {  "id": 2,  "name": "Programmieren"  } |
| **409** | Subject name already exists |

Note: If an Admin creates a Subject, it will be active. If a User or Moderator creates a Subject it will be inactive until activated by an Admin via the “Update Subject” method.

1. Update Subject

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| PUT | url/subject | Admin |

|  |  |
| --- | --- |
| **MediaType** | **Sample Request Body** |
| application/json | {  "id": 4,  "dename": "Mathe",  "enname": "Maths",  "isactive": true  } |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |
| **452** | Subject not found |
| **409** | Subject name already exists |

1. Delete Subject

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| DELETE | url/subject/{id} | Admin |

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Type** | **Name** | **Description** |
| Path | Id | Id of subject to delete |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** |  |
| **452** | Subject not found |

1. Get all active Subjects

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/subject | User |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | [  {  "id": 2,  "name": "Deutsch",  "isactive": true  },  {  "id": 1,  "name": "Englisch",  "isactive": true  },  {  "id": 3,  "name": "Mathe",  "isactive": true  }  ] |

1. Get all inactive Subjects

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/subject/inactive | Admin |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | [  {  "id": 2,  "name": "Deutsch",  "isactive": false  },  {  "id": 1,  "name": "Englisch",  "isactive": false  },  {  "id": 3,  "name": "Mathe",  "isactive": false  }  ] |

1. Get Subject Count

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/subject/count | User |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | 3 |

1. Examples
2. Java code snippet to upload Avatar:

File file2upload = new File("D:\\Elias\\Desktop\\1612131143-Mini360-Sokrates\\20241720090151.jpg");

RequestBody requestBody = new MultipartBody.Builder()

.setType(MultipartBody.FORM)

.addPart(

Headers.of("Content-Disposition", "form-data; name=\"name\""),

RequestBody.create(null, file2upload.getName()))

.addPart(

Headers.of("Content-Disposition", "form-data; name=\"file\""),

RequestBody.create(MEDIA\_TYPE\_PNG, file2upload))

.build();

Request request = new Request.Builder()

.header("Authorization", "Bearer f14a84d2958f26e400121c36f11ff1d")

.url("http://localhost:51246/TutoringTrainWebservice/services/user/avatar")

.post(requestBody)

.build();

Response response = client.newCall(request).execute();