# TUTORINGTRAIN WEBSERVICE V1.9.7

**REST-DOKU** 

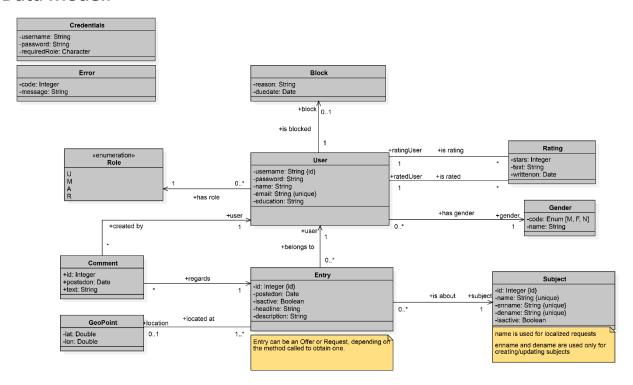
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# **GENERAL**

#### **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: 2017-09-03T19:45:12+0200

# **M**ETHODS

# [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"
	}

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)	

#### 2. 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:**

Key	Value
Authorization	Bearer 4d8068152f82f0ae9ed117365db71cec

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

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.

#### 3. 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
ĺ	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)	

#### 4. User roles

This System currently supports four roles:

User (U), Moderator (M), Admin (A) and Root (R)

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.

The Root can perform all actions, including degrading Admins.

Both the role Admin and Root are considered to be "Admins".

# [2] 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:

44	Comment not found – The comment with the given ID does not exist	
45	Comment of user not found – The comment with the given ID does not exist or was not created by	
	calling user	
46 Invalid Value – An invalid value was provided (e.g. alphanumeric characters for number		
	NOTE: This does <b>not</b> apply for <b>JSON</b> -Strings, only for other parameters (e.g. ID in as pathparam)	
47	47 Entry not found – The Entry with the given ID was not found (no difference made between Offer	
	and Request)	
48 Cannot delete admins – The given user is an admin and can therefore not be deleted (		
	bypass this)	
49	Cannot delete user – The given user has created entries, comments or given / received ratings and	
	can therefore not be deleted.	
50	Cannot rate own user – You cannot rate your own user	
51	Search string null – The search string must not be null (Simple Search)	
52	User not activated – The user (account) has not yet been activated	

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.

### [3] USER RESOURCE

#### 1. Register User

#### Request

Method	URL	Role
POST	url/user/register	None

#### Response

```
Status Response

200 {
    "username": "kevin",
    "role": "U",
    "email": "kevin.paul@gmx.at",
    "name": "Kevin Paul",
    "education": "HTL",
    "gender": "F",
    "averagerating":"4.7"
    }

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.

The user is required to activate his/her account by clicking on the link in this email before they may use any other service.

#### 2. Activate account

#### Request

Method	URL	Role
GET	url/user/activate	None

#### **Parameters**

Туре	Name	Description
Query	key	Activation key sent to user by email

#### Response

Status	Status Response	
200	HTML page with message	
400		

**Note:** This method is meant to only be called by clicking the activation link in the welcome email.

#### 3. Get all Users

#### Request

Method	URL	Role
GET	url/user/all	User

#### **Parameters**

Туре	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",
           "averagerating": "Not yet rated"
           "username": "test",
           "role": "U",
           "email": "santnere@edu.htl-villach.at",
           "name": "wacco",
           "education": "HTL",
           "gender": "M",
           "averagerating":"3.9"
           "block": {
            "reason": "test"
           "username": "wacco",
           "role": "A",
           "email": "santnere@edu.htl-villach.at",
           "name": "wacco",
           "education": "HTL",
           "gender": "N",
           "averagerating": "Not yet rated"
455
         Invalid Query String parameters
```

**Note:** Email is only returned if user is an Admin.

#### 4. Get own User

#### Request

Method	URL	Role
GET	url/user	User

```
Status Response

200 {
    "username": "wacco",
    "role": "A",
    "email": "santnere@edu.htl-villach.at",
    "name": "wacco",
    "education": "HTL",
    "gender": "M",
    "averagerating":"Not yet rated"
    }
```

# 5. Get single User

#### Request

Method	URL	Role
GET	url/user/single/{username}	User

#### **Parameters**

Туре	Name	Description
Path	username	Username of user to get

#### Response

```
Status Response

200 {
    "username": "wacco",
    "role": "A",
    "email": "santnere@edu.htl-villach.at",
    "name": "wacco",
    "education": "HTL",
    "gender": "M",
    "averagerating":"2.5"
    }

453 User not found
```

**Note:** Email is only returned if user is an Admin.

# 6. 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"
	}

Status	Response
200	
453	User not found

# 7. 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"	
	] }	

Status	Response
200	

#### 8. Set Role

# Request

Method	URL	Role
PUT	url/user/role/{username}	Admin

#### **Parameters**

Туре	Name	Description
Path	username	Username of user to set role of

MediaType	Sample Request Body
application/json	{
	"role": "U"
	}

# Response

Status	Response
200	
401	Unauthorized, cannot degrade other admins or own user
453	User not found

**Note:** The Role Root (R) <u>cannot</u> be set via this method.

# 9. 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"
	}

Status	Response
200	
456	Error blocking user. (Further details may be provided via body)
453	User not found

# 10. Unblock User

# Request

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

#### **Parameters**

Туре	Name	Description
Path	Username	Username of user to unblock

Status	Response
200	
453	User not found

# 11. Get all Genders

#### Request

Method	URL	Role
GET	url/user/gender	User

# 12. Get User Count

# Request

Method	URL	Role
GET	url/user/count	User

Status	Response
200	10

#### 13. Get Avatar

# Request

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

Status	Response
200	Avatar is returned with format "image/jpg"
204	User has no avatar
453	User not found

#### 14. Get Own Avatar

# Request

Method	URL	Role
GET	url/user/avatar	User

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

#### 15. Set Avatar

# Request

Method	URL	Role
POST	url/user/avatar	User

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

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

#### 16. Reset Own Avatar

# Request

Method	URL	Role
DELETE	url/user/avatar	User

Status	Response
200	

#### 17. Reset Avatar

# Request

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

Status	Response
200	
453	User not found

# 18. 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

Status	Response
200	
451	Invalid property provided

# 19. 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

Status	Response	
200		
451	Invalid property provided	
453	User not found	

#### 20. Reset Password

#### Request

Method	URL	Role
PUT	url/user/resetPw/{username}	Admin

#### Response

Status	Response
200	
451	Invalid property provided
453	User not found

**Note:** This method sets the selected user's password to a random 8-character-long string. The new password is sent to the user's email address.

#### 21. Delete User

#### Request

Method	URL	Role
DELETE	url/user/{username}	Admin

#### **Parameters**

Туре	Name	Description
Query	force	True Delete user even if he has entries, comments or
		ratings

#### Response

Status	Response
200	
460	User has entries, comments or ratings (given and/or received)
453	User not found

**Note:** This method deletes the given user completely. Without the parameter "force=true" this only works if said user has created no entries, no comments and hasn't given or received any ratings.

#### 22. Rate User

#### Request

Method	URL	Role
POST	url/user/rating/{username}	User

MediaType	Sample Request Body
application/json	{   "stars": 2,   "text": "Your service is too expensive, IMO" }

#### Response

```
Status Response

200 {
    "text": "Your service is too expensive, IMO",
    "stars": 2,
    "writtenon": "2018-02-22T04:27:13+0100",
    "ratedUser": {
        "username": "user4"
        },
        "ratingUser": {
        "username": "admin"
        }
    }

460 Cannot rate own user

453 User not found
```

**Note:** "stars" must be an integer value between 1 and 5.

When a user rates the same user again his previous rating is overwritten.

# 23. Get Rating of User

#### Request

Method	URL	Role
GET	url/user/rating/{username}	User

```
Status
        Response
200
           "text": "TEST RATING",
           "stars": 2,
           "writtenon": "2018-02-23T06:27:13+0100",
           "ratedUser": {
            "username": "user4"
           },
           "ratingUser": {
           "username": "admin"
           }
           "text": "Very nice lessons",
           "stars": 5,
           "writtenon": "2017-02-23T06:27:13+0100",
           "ratedUser": {
            "username": "user4"
           "ratingUser": {
            "username": "gunther"
        User not found
453
```

#### 24. Get Rated Users

#### Request

Method	URL	Role
GET	url/user/rating/{username}/given	User

```
Status
        Response
200
           "stars": 4,
           "writtenon": "2018-02-23T06:27:13+0100",
           "ratedUser": {
           "username": "NativeSpeaker69"
           "ratingUser": {
           "username": "user4"
         },
           "text": "OK maths lessons",
           "stars": 3,
           "writtenon": "2017-02-23T06:27:13+0100",
           "ratedUser": {
            "username": "MethChamp"
           },
           "ratingUser": {
           "username": "user4"
453
        User not found
```

#### 25. Searching

#### Request

Method	URL	Role
POST	url/user/search	Admin

#### **Parameters**

Туре	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": [
                      "key": "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 key provided, e.g. Key 'XY' or Operation 'adfgsdg'
455	Invalid Query String parameters

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

# Keys

Name	Туре
USERNAME	STRING
NAME	STRING
EDUCATION	STRING
ROLE	CHAR
GENDER	CHAR
RATING	NUMBER

# Operations

Туре	Operations
STRING	EQ
	CONTAINS
	STARTS_WITH
	ENDS_WITH
CHAR	EQ
NUMBER	EQ
	GT
	LT
	GTE
	LTE

#### **Order Directions**

Direction	
ASC	
DESC	

# 26. XMPP – Add User

# Request

Method	URL	Role
POST	url/xmpp/add/{username}	User

#### **Parameters**

Туре	Name	Description
Path	username	User to add

Status	Response
200	
453	User not found

## 27. XMPP – Get Contact Type

## Request

Method	URL	Role
POST	url/xmpp/myRoster/{username}	User

#### **Parameters**

Туре	Name	Description
Path	username	User to get contact type of

## Response

Status	Response
200	
453	User not found

#### Contact Types:

• NONE: User is not my contact

• REQUESTED: Contact request has already been sent to User

• ACCEPTED: User is my contact

# 28. Get Newsletter Template

## Request

Method	URL	Role
GET	url/user/newsletter	Admin

### Response

Status	Response
200	{HTML of Newsletter}

All attributes described in chapter 29. are included in this template with the following syntax:

{attribute\_name}

#### *29.* Send Newsletter

#### Request

Meth	od	URL	Role
POST		url/user/newsletter	Admin

MediaType	Sample Request Body
application/json	{
	"subject": "Email Subject",
	"title": "NEW FEATURES",
	"text_top": "Line1 Line2",
	"text_bottom": "xyz",
	"url_img_top ": "https://avatars1.githubusercontent.com/u/100",
	"url_img_bottom": "https://avatars1.githubusercontent.com/u/101",
	"targets": [
	"U",
	"M"
	1
	}

#### Response

Status	Response
200	

This method sends a Newsletter to all users having the given "target-roles" (U, M, A, R).

If the attribute "targets" is absent, the Newsletter is sent to all users.

The attributes "title", "text\_top" and "text\_bottom" are displayed in the Newsletter form.

In addition to these three attributes, there are placeholders which are replaced by the individual user's values:

• @name: Replaced with the name of a user.

• @username: Replaced with the username of a user.

To separate lines, use the "<br>"-tag.

Furthermore, the two images on the Newsletter can be customized using URLs ("url\_img\_top" and "url\_img\_bottom"). If one of these attributes in left out, a default image is used.

The layout of the Newsletter is shown on the next page.

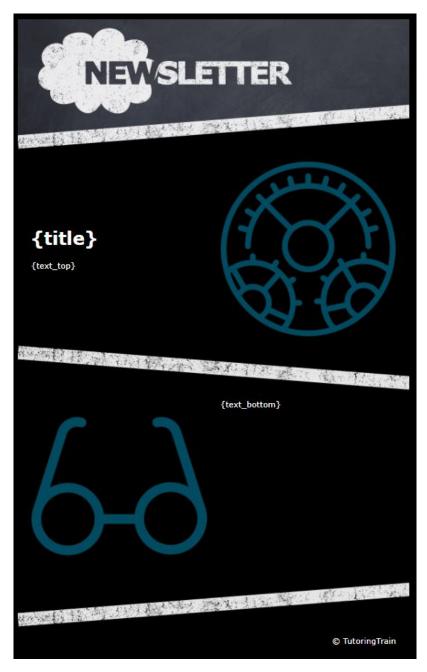


Figure 1: Newsletter layout

## [4] ENTRY RESOURCES

Offers and Requests are both entries, and since this service offers the same methods for both types of entries they are only described once.

To call a method for offers / requests, use the provided URL and replace the **<entryType>** placeholder with **offer** / **request**.

### 1. Create Entry

#### Request

Method	URL	Role
POST	url/ <entrytype></entrytype>	User

```
MediaType
application/json

{
    "description": "This is just a test offer",
    "headline": "Test offer",
    "subject": {
        "id": 3
        },
        "location": {
        "lon": -45.6545,
        "lat": 5.7894
        }
    }
```

```
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"
           "location": {
            "lon": 13.85062,
            "lat": 46.60856,
            "name": "Villach, 9500, Carinthia, Austria"
452
         Subject not found
```

457 Subject is not active

## 2. Update Entry

### Request

Method	URL	Role
PUT	url/ <entrytype></entrytype>	User

```
MediaType
application/json

{
    "id": 1,
    "isactive": false,
    "description": "This is just a test offer",
    "subject": {
        "id": 1
        },
        "headline": "Test offer",
        "location": {
        "lon": -45.6545,
        "lat": 5.7894
        }
    }
```

#### Response

Status	Response
200	
452	Subject not found
454	Entry not found
457	Subject is not active

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

# 3. Delete Entry

## Request

Method	URL	Role
DELETE	url/ <entrytype>/{entryID}</entrytype>	User

## Response

Status	Response
200	
404	Offer/Request not found

**Note:** Admins can delete any Entry, non-admin users can only delete entries created by themselves.

## 4. Reset Properties of Entry

## Request

Method	1ethod URL	
POST	url/ <entrytype>/reset/{id}</entrytype>	Admin

MediaType	Sample Request Body	
application/json ["duedate"]		

### **Possible Properties**

Duedate, Location

#### Response

Status	Response
200	
451	Invalid property provided
454	Entry not found

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

#### 5. Get newest Entries

#### Request

Method	URL	Role
GET	url/ <entrytype>/new</entrytype>	User

#### **Parameters**

Туре	Name	Description
Query	start	Start index of entries to get
Query	pageSize	Maximum number of entries

```
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"
           }
          },
            "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"
            "location": {
            "lon": 13.85062,
             "lat": 46.60856,
             "name": "Villach, 9500, Carinthia, Austria"
455
         Query parameters were not given
```

## 6. Get newest Entries of User

#### Request

Method	URL	
GET	url/ <entrytype>/new/{username}</entrytype>	User

#### **Parameters**

Туре	Name	Description
Path	Username	Username of user to get newest entries of
Query	start	Start index of entries to get
Query	pageSize	Maximum number of entries

```
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"
            },
            "location": {
            "lon": 13.85062,
            "lat": 46.60856,
            "name": "Villach, 9500, Carinthia, Austria"
          },
            "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
```

# 7. Get Entry Count

## Request

Method	URL	Role
GET	url/ <entrytype>/count</entrytype>	User

Status	Response
200	10

## 8. Get Comments of Entries

#### Request

Method	URL	
GET	url/ <entrytype>/{entryID}/comments</entrytype>	User

#### **Parameters**

Туре	Name	Description
Path	entryID	ID of the Offer/Request to get the comments of

```
Status
        Response
200
           "id": 2,
           "postedon": "2017-12-22T12:06:28+0100",
          "text": "test comment",
           "user": {
           "username": "admin"
          }
           "id": 4,
           "postedon": "2017-12-22T14:16:28+0100",
           "text": "another comment",
          "user": {
           "username": "someuser"
404
        Entry not found
```

#### 9. Create Comment

### Request

Method	URL	Role
POST	url/ <entrytype>/{entryID}/comments</entrytype>	User

MediaType	Sample Request Body
application/json	{     "text": "Testcomment" }

# 10. Update Comment

## Request

Method	URL	Role
PUT	url/ <entrytype>/{entryID}/comments</entrytype>	User

MediaType	Sample Request Body
application/json	{
	"id": 2,
	"text": "TEST"
	}

## Response

Status	Response
200	
404	Offer/Request not found

**Note:** Admins can update any Comment, non-admin users can only update comments created by themselves.

## 11. Delete Comment

## Request

Method	URL	Role
DELETE	url/ <entrytype>/{entryID}/comments/{commentId}</entrytype>	User

## Response

Status	Response
200	
404	Offer/Request not found

**Note:** Admins can delete any Comment, non-admin users can only delete comments created by themselves.

## 12. Searching

#### Request

Method	URL	Role
POST	url/ <entrytype>/search</entrytype>	User

#### **Parameters**

Туре	Name	Description
Query	start	Start index of entries to get
Query	pageSize	Maximum number of entries

```
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"
                      },
                       "key": "LOCATION",
                       "value": {
                        "lon": -45.6545,
                        "lat": 5
                       "not": false,
                       "operation": "INSIDE",
                       "radius": 100
                     }
                    ],
                     "order": [
                       "key": "POSTEDON",
                      "direction": "DESC"
```

## Response

Status	Response	
200	A list of all found entries is provide in the response body, similar to "Get Newest Entries"	
451	Invalid property provided, e.g. Key 'XY' or Operation 'adfgsdg'	
455	Invalid Query String parameters	

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

## Keys

Name	Туре
ID	NUMBER
POSTEDON	DATE
ISACTIVE	BOOLEAN
DESCRIPTION	STRING
HEADLINE	STRING
SUBJECT	NUMBER
USERNAME	STRING
LOCATION	SPATIAL

## Operations

Туре	Operations
STRING	EQ
	CONTAINS
	STARTS_WITH
	ENDS_WITH
DATE	EQ (compares by day, not by second)
	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
SPATIAL	INSIDE (searches for entries inside the given radius)
(see Sample Request Body)	INSIDE_NULL (same as INSIDE, but entries with no
	location are returned as well)

## **Order Directions**

Direction	
ASC	
DESC	

## 13. Simple Search

### Request

Method	Method URL	
POST	url/ <entrytype>/simpleSearch</entrytype>	

#### **Parameters**

Туре	Name	Description
Query	start	Start index of entries to get
Query	pageSize	Maximum number of entries
Query	searchStr	Phrase to search for

#### Response

Status	Response	
200	A list of all found entries is provide in the response body, similar to "Get Newest Entries"	
451	Invalid property provided, e.g. Key 'XY' or Operation 'adfgsdg'	
455	Invalid Query String parameters	

This method searches all Entries of the specified type. It returns all Entries containing the "searchStr" in **any** of the following properties:

- Headline
- Description
- Subject
  - o Enname (English name)
  - o Dename (German name)
- Location name

# [5] SUBJECT RESOURCE

# 1. 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.

# 2. 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

**Note:** Setting "isactive" to false disables the use of a subject in Create Offer / Update Offer. Offers already referencing this subject remain untouched.

# 3. Delete Subject

## Request

Method	URL	Role
DELETE	url/subject/{id}	Admin

#### **Parameters**

Туре	Name	Description
Path	Id	Id of subject to delete

## Response

Status	Response
200	
452	Subject not found
458	Subject is in use and cannot be deleted

**Note:** This method completely removes a subject. This only works if the subject is not used anywhere. To disable a used subject, please set "isactive" to false with Update Subject.

# 4. Get all Subjects

## Request

Method	URL	Role
GET	url/subject/all	User

# 5. Get all active Subjects

## Request

Method	URL	Role
GET	url/subject	User

# 6. Get all inactive Subjects

## Request

Method	URL	Role
GET	url/subject/inactive	Admin

# 7. Get Subject Count

## Request

Method	URL	Role
GET	url/subject/count	User

Status	Response
200	3

# [6] EXAMPLES

1. Java code snippet to upload Avatar:

```
File file 2 upload = new File ("D:\Elias\Desktop\1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131143-Mini360-1612131-Mini560-161213-Mini560-161213-Mini560-161213-Mini560-161213-Mini560-161213-Mini560-161213-Mini560-161213-Mini560-161213-Mini560-16121-Mini560-16121-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-Mini560-1612-M
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();
```