TUTORINGTRAIN

WEBSERVICE

V1.9.5.1

REST-DOKU
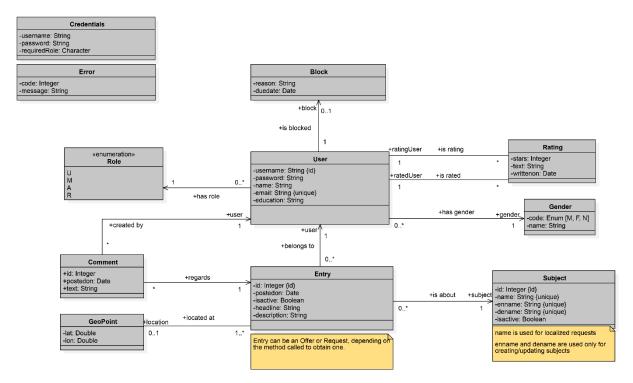
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GENERAL

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: **2017-09-03T09:45:12+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)

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 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.

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
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:

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
36	Subject is used – The subject is used and hence cannot be deleted. (Use Update to deactive)
37	Illegal Role – A illegal role was specified (not U, M or A)
38	Degrade Admin – Cannot degrade another Admin
39	Degrade Own User – Cannot set the role of the own user
40	Request not found – The request with given id doesn't exist
41	Request of user not found – The request with given id doesn't exist or wasn't created by given user
42	XMPP Error – An error occurred during some operation (create user, …) on the Chat Server.
43	Cannot set Root role – This role can only be set directly in the Database.

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 **not** apply for **JSON**-Strings, only for other parameters (e.g. ID in as pathparam)
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 (Root (R) can 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)

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

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",
	  "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.

2. Get all Users

Request

Method	URL	Role
GET	url/user/all	User

Parameters

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

Response

Status	Response

200	<pre>[
	  {
	    "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"
	  }
	]</pre>

455	Invalid Query String parameters

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

3. 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",
	  "averagerating":"Not yet rated"
	}

4. Get single User

Request

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

Parameters

Type	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.

5. 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

6. *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	

7. Set Role

Request

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

Parameters

Type	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.

8. 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)
453	User not found

9. 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	
453	User not found

10. 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"
}
]```

11.   Get User Count

Request

Method	URL	Role
GET	url/user/count	User

Response

Status	Response
200	10

12. *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
453	User not found

13.   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

14.   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

15. Reset Own Avatar

Request

Method	URL	Role
DELETE	url/user/avatar	User

Response

Status	Response
200	

16.   Reset Avatar

Request

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

Response

Status	Response
200	
453	User not found

17.   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

18. *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
453	User not found

19.   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.

20.   Delete User

Request

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

Parameters

Type	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.

21. 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.

22.   Get Rating of User

Request

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

Response

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"
	    }
	  }
	]```

453	User not found

23.   Get Rated Users

Request

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

Response

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

24. 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 | ```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	Type
USERNAME	STRING
NAME	STRING
EDUCATION	STRING
ROLE	CHAR
GENDER	CHAR
RATING	NUMBER

Operations

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

Order Directions

Direction
ASC
DESC

25.   XMPP – Add User

Request

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

Parameters

Type	Name	Description
Path	username	User to add

Response

Status	Response
200	
453	User not found

26.   XMPP – Get Contact Type

Request

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

Parameters

Type	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

## *27.	Get Newsletter Template*

Request

Method	URL	Role
GET	url/user/newsletter	Admin

Response

Status	Response
200	{HTML of Newsletter}

28.   Send Newsletter

Request

Method	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",
	  "targets": [
	   "U",
	   "M"
	  ]
	}
	``

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.

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>	User

MediaType	Sample Request Body

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

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"
	  },
	  "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>	User

MediaType	Sample Request Body

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}	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	URL	Role
POST	url/<entryType>/reset/{id}	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	User

Parameters

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

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"
	    },
	    "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	Role
GET	url/<entryType>/new/{username}	User

Parameters

Type	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

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

7. Get Entry Count

Request

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

Response

Status	Response
200	10

8. Get Comments of Entries

Request

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

Parameters

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

Response

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	User

MediaType	Sample Request Body

application/json	{
	   "text": "Testcomment"
	}

Response

Status	Response

200	{
	  "id": 21,
	  "postedon": "2018-01-12T10:16:37+0100",
	  "text": "Testcomment",
	  "user": {
	   "username": "admin"
	  }
	}

404	Offer/Request not found

10.   Update Comment

Request

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

Parameters

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

MediaType	Sample Request Body

application/json	<pre>{
	  "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"
	   }
	  ]
	}</pre>

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

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
SPATIAL (see **Sample Request Body**)	INSIDE (searches for entries inside the given radius) INSIDE_NULL (same as INSIDE, but entries with no location are returned as well)

Order Directions

Direction
ASC
DESC

13.   Simple Search

Request

Method	URL	Role
POST	url/<entryType>/simpleSearch	User

Parameters

Type	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
    - Enname (English name)
    - 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

Type	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

Response

Status	Response

200	```[```
	 ``` {```
	 ``` "id": 2,```
	 ``` "name": "Deutsch",```
	 ``` "isactive": false```
	 ``` },```
	 ``` {```
	 ``` "id": 1,```
	 ``` "name": "Englisch",```
	 ``` "isactive": true```
	 ``` },```
	 ``` {```
	 ``` "id": 3,```
	 ``` "name": "Mathe",```
	 ``` "isactive": true```
	 ``` }```
	 ```]```

5. 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
	  }
	]```

6. 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
	  }
	]```

7. Get Subject Count

Request

Method	URL	Role
GET	url/subject/count	User

Response

Status	Response
200	3

[6] EXAMPLES

1. Java code snippet to upload Avatar:

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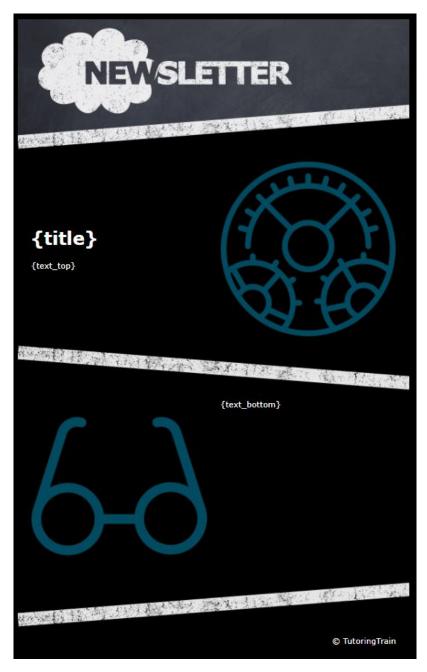File file2upload = new File("D:\\Elias\\Desktop\\1612131143-Mini360-
Sokrates\\20241720090151.jpg");

    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();
```