TutoringTrain Webservice   
V1.9.6

REST-DOKU

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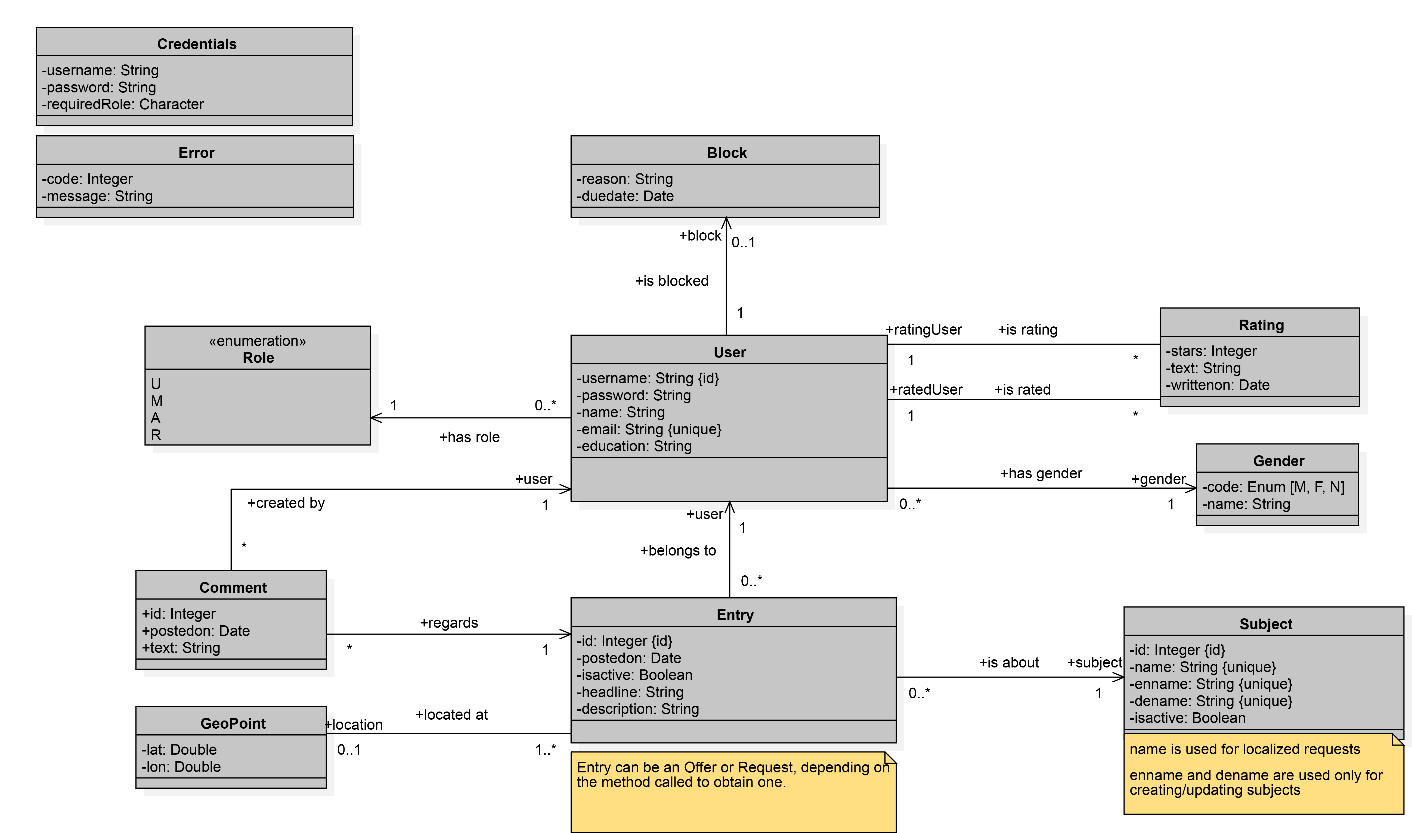
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General

**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 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”.

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 |
| 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.

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",  "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.

1. 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** | [  {  "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.

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",  "averagerating":"Not yet rated"  } |

1. 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.

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. 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**) cannot be set via this method.

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) |
| **453** | User not found |

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** |  |
| **453** | User not found |

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 |
| **453** | User not found |

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** |  |
| **453** | User not found |

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 |
| **453** | User not found |

1. 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.

1. 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.

1. 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.

1. 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 |

1. 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 |

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": [  {  "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 |

1. 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 |

1. 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

1. Get Newsletter Template

**Request**

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

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| **200** | {HTML of Newsletter} |

All attributes described in chapter 28. are included in this template with the following syntax:

**{attribute\_name}**

1. 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<br>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"  ]  } |

**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.

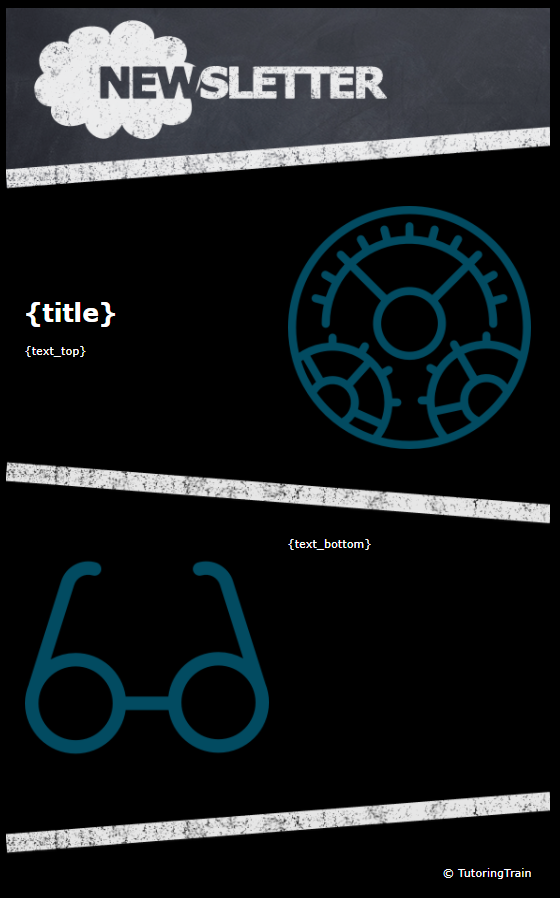


Figure : Newsletter layout

1. 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 |

1. 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.

1. 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.

1. 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.

1. 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 |

1. 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 |

1. Get Entry Count

**Request**

|  |  |  |
| --- | --- | --- |
| **Method** | **URL** | **Role** |
| GET | url/<entryType>/count | User |

**Response**

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

1. 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 |

1. 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 |

1. 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.

1. 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.

1. 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 | {  "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** | **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 |

1. 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

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 |

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

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 |
| **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.

1. 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  }  ] |

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();