TUTORINGTRAIN WEBSERVICE V1.2

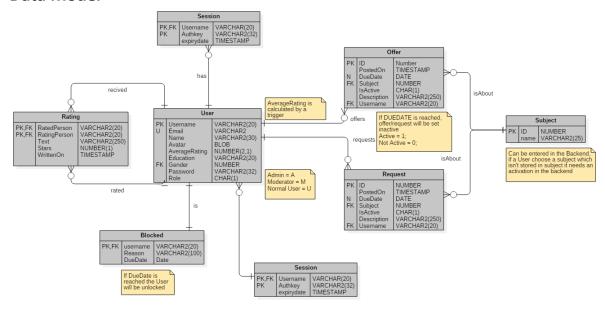
REST-DOKU

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GENERAL

Data Model



Only JSON format is supported.

All JSON attributes marked in THIS COLOR are optional.

Dates 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:

Example:

Key	Value	
Authorization	Bearer 4d8068152f82f0ae9ed117365db71cec	

[&]quot;Bearer <token>"

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 message.

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

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

3. User roles

This System currently supports three roles:

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

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

[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 not found – The offer was not found
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	Blocked – The user is blocked from using the application
27	Significant The age. to blocked from aging the application
28	
29	Invalid JSON – The provided JSON-Request is malformed

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
application/json

{
    "name": "Kevin Paul",
    "username": "kevin",
    "email": "kevin.paul@gmx.at",
    "password": "098f6bcd4621d373cade4e832627b4f6",
    "education": "HTL",
    "gender": {
        "id": 2
        }
    }
```

Response

```
Status Response

200 {
    "username": "kevin",
    "role": "U",
    "email": "kevin.paul@gmx.at",
    "name": "Kevin Paul",
    "education": "HTL",
    "gender": {
        "id": 2,
        "name": "Male"
        }
    }

409 Username already exists.
```

2. Get all Users

Request

Method	URL	Role
GET	url/user/all	Admin

Parameters

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

```
Status
         Response
200
         [
           "username": "kevin",
           "role": "U",
           "email": "kevin.paul@gmx.at",
           "name": "Kevin Paul",
           "education": "HTL",
           "gender": {
            "id": 2,
            "name": "Male"
          },
           "username": "test",
           "role": "U",
           "email": "santnere@edu.htl-villach.at",
           "name": "wacco",
           "education": "HTL",
           "gender": {
            "id": 2,
            "name": "Male"
           },
           "block": {
            "reason": "test"
           }
          },
           "username": "wacco",
           "role": "A",
           "email": "santnere@edu.htl-villach.at",
           "name": "wacco",
           "education": "HTL",
           "gender": {
            "id": 2,
            "name": "Male"
```

3. 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": {
        "id": 2,
        "name": "Male"
      }
    }
```

4. 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": { "id": 1 } }

Response

Status	Response
200	
453	User not found

5. Update own User

Request

Method	URL	Role
PUT	url/user/update/own	User

MediaType	Sample Request Body
application/json	{
	"name": "Elias Santler",
	"email": "santnere@edu.htl-villach.at",
	"password": "098f6bcd4621d373cade4e832627b4f6",

Status	Response
200	

6. 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)

7. Unblock User

Request

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

Parameters

Type	Name	Description
Path	Username	Username of user to unblock

Status	Response
200	

8. Get all Genders

Request

Method	URL	Role
GET	url/user/gender	User

[4] OFFER RESOURCE

1. Create Offer

Request

Method	URL	Role
POST	url/offer	User

```
MediaType Sample Request Body

application/json {
    "description": "This is just a test offer",
    "subject": {
        "id": 3
        }
    }
```

Response

2. Update Offer

Request

Method	URL	Role
PUT	url/offer	User

Status	Response
200	
452	Subject not found
454	Offer not found

3. Get newest Offers

Request

Method	URL	Role
GET	url/offer/new	User

Parameters

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

```
Status
         Response
200
           "id": 2,
           "postedon": "2017-10-04T07:27:58+0200",
           "isactive": "1",
           "description": "Test offer 2",
           "subject": {
            "id": 1,
            "name": "English"
           "user": {
            "username": "wacco"
           "postedon": "2017-10-04T07:18:39+0200",
           "isactive": "0",
           "description": "This is just a test offer",
           "subject": {
            "id": 1,
            "name": "English"
           "user": {
            "username": "wacco"
           }
455
         Query parameters were not given
```

4. Get newest Offers of User

Request

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

Parameters

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

```
Status
         Response
200
           "id": 2,
           "postedon": "2017-10-04T07:27:58+0200",
           "isactive": "1",
           "description": "Test offer 2",
           "subject": {
            "id": 1,
            "name": "English"
           },
           "user": {
            "username": "wacco"
           }
          },
           "id": 1,
           "postedon": "2017-10-04T07:18:39+0200",
           "isactive": "0",
           "description": "This is just a test offer",
           "subject": {
            "id": 1,
            "name": "English"
           "user": {
            "username": "wacco"
          }
         User not found
453
455
         Query parameters were not given
```

[5] SUBJECT RESOURCE

1. Create Subject

Request

Method	URL	Role
POST	url/subject	Admin

MediaType	Sample Request Body
application/json	{
	"name": "Mathe"
	}

Response

Status	Response
200	{
	"id": 3,
	"name": "Mathe"
	}
409	Subject name already exists (currently not implemented)

2. Update Subject

Request

Method	URL	Role
PUT	url/subject	Admin

MediaType	Sample Request Body
application/json	{
	"id": 2,
	"name": "Deutsch"
	}

Response

Status	Response
200	
452	Subject not found

3. Delete Subject

Request

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

Parameters

Туре	Name	Description
Path	Id	Id of subject to delete

Status	Response
200	
452	Subject not found

4. Get all Subjects

Request

Method	URL	Role
GET	url/subject	User