TUTORINGTRAIN WEBSERVICE V1.3.1

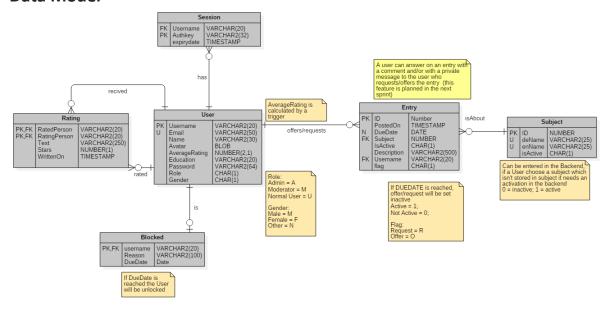
REST-DOKU

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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 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
GET	url/authentication/check	User

Response

Status	Response
200	The token is still valid
200	The token is not valid (see returned Error for further information)

4. 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	Stocked The doct to Stocked from doing 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	Sample Request Body
application/json	{
	"name": "Kevin Paul",
	"username": "kevin",
	"email": "kevin.paul@gmx.at",
	"password": "098f6bcd4621d373cade4e832627b4f6",
	"education": "HTL",
	"gender": "F"
	}

Response

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

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": "F"
           "username": "test",
           "role": "U",
           "email": "santnere@edu.htl-villach.at",
           "name": "wacco",
           "education": "HTL",
           "gender": "M",
           "block": {
            "reason": "test"
           "username": "wacco",
           "role": "A",
           "email": "santnere@edu.htl-villach.at",
           "name": "wacco",
           "education": "HTL",
           "gender": "N"
```

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": "M"
    }
```

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": "N"
	}

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 Santner",
	"email": "santnere@edu.htl-villach.at",
	"password": "098f6bcd4621d373cade4e832627b4f6",
	"education": "HTL",
	"gender": "N"
	}

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

Туре	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
application/json

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

Response

```
Status
         Response
200
          "id": 1,
          "postedon": "2017-10-04T07:18:39+0200",
          "isactive": "1",
          "description": "This is just a test offer",
          "subject": {
           "id": 1,
           "dename": "Englisch",
           "enname": "English"
          },
          "user": {
           "username": "wacco"
         Subject not found
452
```

2. Update Offer

Request

Method	URL	Role
PUT	url/offer	User

```
MediaType
application/json

{
    "id": 1,
    "isactive": "1",
    "description": "This is just a test offer",
    "subject": {
        "id": 1
        }
    }
```

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,
            "dename": "Englisch",
            "enname": "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,
            "dename": "Englisch",
            "enname": "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,
            "dename": "Englisch",
            "enname": "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,
            "dename": "Englisch",
            "enname": "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	{
	"dename": "Programmieren",
	"enname": "Programming"
	}

Response

Status	Response
200	{
	"id": 2,
	"dename": "Programmieren",
	"enname": "Programming"
	}
409	Subject name already exists

2. Update Subject

Request

Method	URL	Role
PUT	url/subject	Admin

MediaType	Sample Request Body
application/json	{
	"id": 4,
	"dename": "Mathe",
	"enname": "Maths"
	}

Response

Status	Response
200	
452	Subject not found
409	Subject name already exists

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