



TUTORINGTRAIN WEBSERVICE V1.7.3

REST-DOKU

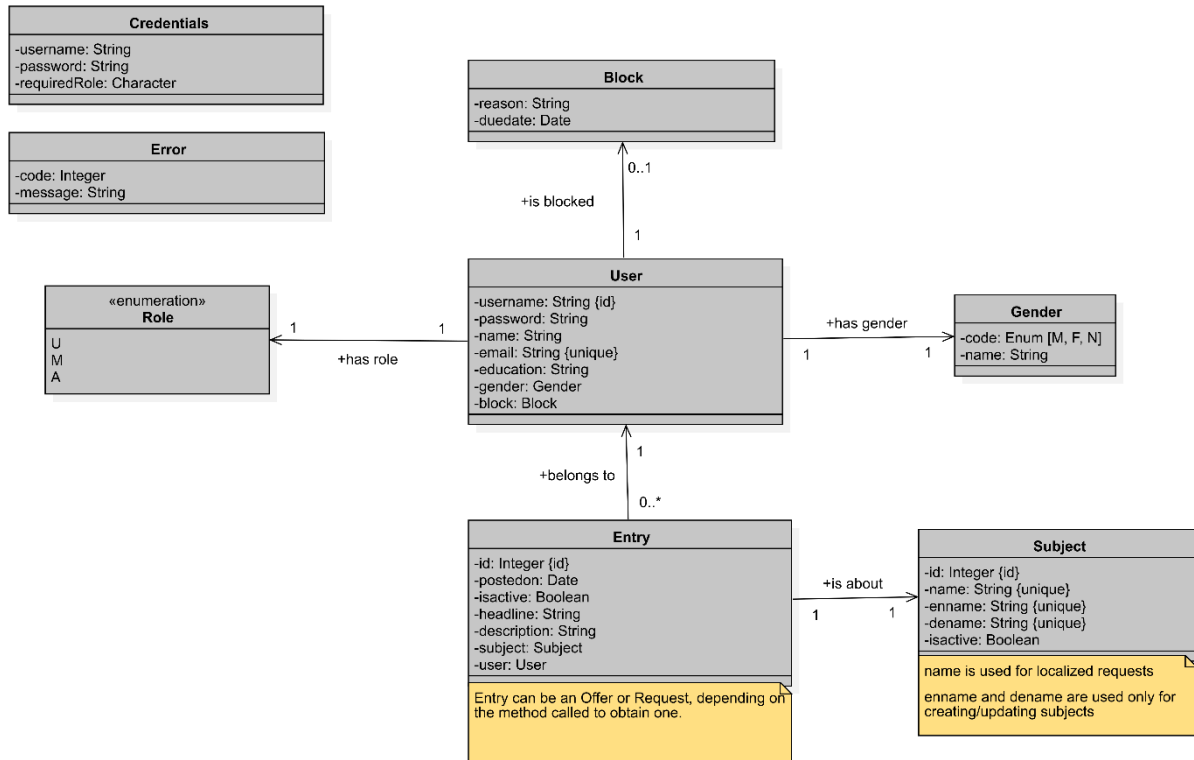
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GENERAL

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 | <pre>{ "username": "testuser", "password": "098f6bcd4621d373cade4e832627b4f6", "requiredRole": "A" }</pre> |

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 | <pre>{ "requiredRole": "A" }</pre> |

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 | Description |
|------|--|
| 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 | Blocked – The user is blocked from using the application |
| 26 | |
| 27 | |
| 28 | |
| 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 deactivate) |
| 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. |

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 | <pre>{ "name": "Kevin Paul", "username": "kevin", "email": "kevin.paul@gmx.at", "password": "098f6bcd4621d373cade4e832627b4f6", "education": "HTL", "gender": "F" }</pre> |

Response

| Status | Response |
|--------|--|
| 200 | <pre>{ "username": "kevin", "role": "U", "email": "kevin.paul@gmx.at", "name": "Kevin Paul", "education": "HTL", "gender": "F" }</pre> |
| 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" }, { "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" }]</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" } |

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" } |

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 | <pre>{ "username": "kevin", "name": "Paul Kevin", "email": "coolerkev@gmx.at", "password": "9d5e3ecdeb4cdb7acfd63075ae046672", "education": "HTL", "gender": "N" }</pre> |

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 | <pre>{ "name": "Elias Santner", "email": "santnere@edu.htl-villach.at", "password": "098f6bcd4621d373cade4e832627b4f6", "education": "HTL", "gender": "N" }</pre> |

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 | <pre>{ "role": "U" }</pre> |

Response

| Status | Response |
|--------|---|
| 200 | |
| 401 | Unauthorized, cannot degrade other admins or own user |

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

8. Block User

Request

| Method | URL | Role |
|--------|----------------|-------|
| POST | url/user/block | Admin |

| MediaType | Sample Request Body |
|------------------|--|
| application/json | <pre>{ "username": "test", "reason": "test", "duedate": "2017-09-03T09:45:12+0200" }</pre> |

Response

| Status | Response |
|--------|---|
| 200 | |
| 456 | Error blocking user. (Further details may be provided via body) |

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 | |

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 |

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 | |

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 |

19. 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 | <pre>{ "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": [{ "prop": "USERNAME", "direction": "ASC" }] }</pre> |

Response

| Status | Response |
|--------|---|
| 200 | A list of all found users is provide in the response body, similar to “Get All Users” |
| 451 | Invalid property 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 |

Operations

| Type | Operations |
|--------|--|
| STRING | EQ CONTAINS STARTS_WITH ENDS_WITH |
| CHAR | EQ |

Order Directions

| Direction |
|-----------|
| ASC |
| DESC |

[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 } } |

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" } } |
| 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 | <pre>{ "id": 1, "isactive": false, "description": "This is just a test offer", "subject": { "id": 1 }, "headline": "Test offer" }</pre> |

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. Reset Properties of Entry

Request

| Method | URL | Role |
|--------|----------------------------|-------|
| POST | url/<entryType>/reset/{id} | Admin |

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

Possible Properties

Duedate

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.

4. 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 | <pre>[{ "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" } }]</pre> |
| 455 | Query parameters were not given |

5. 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" } }, { "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 |

6. Get Entry Count

Request

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

Response

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

7. 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" }], "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 |

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 |

Order Directions

| Direction |
|-----------|
| ASC |
| DESC |

[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 | <pre>{ "id": 4, "dename": "Mathe", "enname": "Maths", "isactive": true }</pre> |

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 “inactive” 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:

```
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();
```