**`InventoryManagement API V1 documentation**

InventoryManagement API describes the work with API in InventoryManagement.

**Request and response formats**

In general, the InventoryManagement API uses HTTP POST requests with JSON arguments and JSON responses.

**Browser-based JavaScript, CSRF**

InventoryManagement don`t allow using CSRF – anti-CSRF is part of of InventoryManagement API engine.

API engine uses URL parameters.

The Content-Type is "application/json; charset=utf-8".

**Date format**

All dates in the API are strings in the [ISO 8601 "combined date and time representation" format](https://en.wikipedia.org/wiki/ISO_8601#Combined_date_and_time_representations).

**Path formats**

Paths are relative to an application's identities (api/Goods, api/Transactions, api/TransactionTypes, …).

**Default functions**

Every entity has default set of operations realized by CRUD set.

**Routing tables**

Here are some possible HTTP requests, along with the action that gets invoked for each:

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| HTTP Method | URI Path | Action |
| GET | /api/{entityController}(/id) | Get all entities in list (Read details of the exact entity) |
| POST | /api/{entityController} | Create new entity |
| DELETE | /api/{entityController}/id | Delete the entity with set id |
| PUT | /api/{entityController} | Update the entity with new variation of entity |

**Error handling**

Errors are returned using standard HTTP error code syntax. Any additional info is included as JSON in the body of the response.

**Authorization**

InventoryManagement supports OAuth 2.0 for authorizing API requests. Authorized requests to the API should use an Authorization header with the value Bearer <TOKEN>, where <TOKEN> is an access token obtained through the OAuth flow.

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| **/api/oauth2/authorize** | |
| DESCRIPTION | This starts the OAuth 2.0 authorization flow. This isn't an API call—it's the web page that lets the user sign in and authorize.User will be redirected to the URI specified by redirect\_uri.  OAuth 2.0 supports two authorization flows:  The code flow returns a code via the redirect\_uri callback which should then be converted into a bearer token using the /api/oauth2/token call.  The token or implicit grant flow returns the bearer token via the redirect\_uri callback, rather than requiring your app to make a second call to a server. |
| URL STRUCTURE | http://localhost/EFlocal/api/oauth2/authorize |
| METHOD | GET |
| PARAMETERS | name: response\_type, type: String. The grant type requested, either token or code.  name: redirect\_uri, type: String. Where to redirect the user after authorization has completed. All redirect URIs must be HTTPS except for localhost URI.  name: state, type: String?. Up to 500 bytes of arbitrary data that will be passed back to your redirect URI. This parameter should be used to protect against cross-site request forgery (CSRF). |
| RETURNS | Because /api/oauth2/authorize is a website, there is no direct return value. However, after the user authorizes your app, they will be sent to your redirect URI. The type of response varies based on the response\_type.  **Code flow.** These parameters are passed in the query string (after the ? in the URL):  name: code, type: String. The authorization code, which can be used to attain a bearer token by calling /api/oauth2/token.  name: state, type: String. The state content, if any, originally passed to /api/oauth2/authorize.  Sample response: [REDIRECT\_URI]?code=ABCDEFG&state=[STATE].  **Token flow.** These parameters are passed in the URL fragment (after the # in the URL):  name: access\_token, type: String. A token which can be used to make calls to these API.  name: token\_type, type: String. The type of token, which will always be bearer.  name: state, type: String. The state content, if any, originally passed to /api/oauth2/authorize.  Sample response: [REDIRECT\_URI]#access\_token=ABCDEFG& token\_type=bearer& state=[STATE] |
| ERRORS | parameters will be included in the redirect URI:  name: error, type: String. An error code per Section 4.1.2.1 of the OAuth 2.0 spec.  name: error\_description, type: String. A user-friendly description of the error that occurred.  name: state, type: String. The state content, if any, originally passed to /api/oauth2/authorize. |

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| **/api/oauth2/token** | |
| DESCRIPTION | This endpoint only applies to apps using the authorization code flow. An app calls this endpoint to acquire a bearer token once the user has authorized the app.  Calls to /api/oauth2/token need to be authenticated using the apps's key and secret. These can either be passed as POST parameters (see parameters below) or via HTTP basic authentication. If basic authentication is used, the app key should be provided as the username, and the app secret should be provided as the password. |
| URL STRUCTURE | http://localhost/EFlocal/api/oauth2/token |
| METHOD | POST |
| PARAMETERS | name: code, type: String. The code acquired by directing users to /api/oauth2/authorize?response\_type=code.  name: grant\_type, type: String. The grant type, which must be authorization\_code.  name: client\_id, type: String?. If credentials are passed in POST parameters, this parameter should be present and should be the app's key.  name: client\_secret, type: String?. If credentials are passed in POST parameters, this parameter should be present and should be the app's secret.  name: redirect\_uri, type: String?. Only used to validate that it matches the original /api/oauth2/authorize, not used to redirect again. |
| RETURNS | A JSON-encoded dictionary including an access token (access\_token), token type (token\_type). The token type will always be "bearer".  Sample response: {"access\_token": "ABCDEFG", "token\_type": "bearer"} |
| ERRORS | 400 – Bad input parameter.  401 – Bad or expired token. This can happen if the access token is expired or if the access token has been revoked by app or the user. To fix this, you should re-authenticate the user.  503 – DB is unreachable. |

**Goods**

Goods entity is one of the main entities in application – its API controller represents CRUD functionality for work with each entity of goods and getting current quantity of each good.

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| **/api/Goods** | |
| DESCRIPTION | Gets the list of all Goods, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Goods |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<Goods>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/Goods/id** | |
| DESCRIPTION | Gets one exact entity of Goods, according availability for logged user role. |
| URL STRUCTURE | http://localhost/EFlocal/api/Goods/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity of targeted entity if it`s available to this User. Sample response: { **"Goods": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/Goods** | |
| DESCRIPTION | Sends new entity of Goods to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Goods |
| METHOD | POST |
| PARAMETERS | name: Good, type: JSON. One entity of requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/Goods/id** | |
| DESCRIPTION | Deletes one exact entity of Goods in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Goods/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/Goods** | |
| DESCRIPTION | Updates one exact entity of Goods in DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Goods |
| METHOD | PUT |
| PARAMETERS | name: Good, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**GoodsInTransaction**

GoodsInTransaction API controller represents CRUD functionality for work with details for Transactions – which the Goods are in exact Transaction and the quantity of ones.

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| **/api/GoodsInTransaction** | |
| DESCRIPTION | Gets the list of all GoodsInTransaction, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/GoodsInTransaction |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<GoodsInTransaction>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/GoodsInTransaction/id** | |
| DESCRIPTION | Gets one exact entity of GoodsInTransaction entity, according availability for logged user role. |
| URL STRUCTURE | http://localhost/EFlocal/api/GoodsInTransaction/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity of targeted entity if it`s available to this User. Sample response: { **"GoodsInTransaction": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/GoodsInTransaction** | |
| DESCRIPTION | Sends new entity of GoodsInTransaction to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/GoodsInTransaction |
| METHOD | POST |
| PARAMETERS | name: GoodsInTransaction, type: JSON. One entity of requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/GoodsInTransaction/id** | |
| DESCRIPTION | Deletes one exact entity of GoodsInTransaction in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/GoodsInTransaction/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/GoodsInTransaction** | |
| DESCRIPTION | Updates one exact entity of GoodsInTransaction in DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/GoodsInTransaction |
| METHOD | PUT |
| PARAMETERS | name: GoodsInTransaction, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**GoodsInWarehauses**

GoodsInWarehauses API controller represents CRUD functionality for work with location of Goods – where the exact Goods are located.

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| **/api/GoodsInWarehauses** | |
| DESCRIPTION | Gets the list of all GoodsInWarehauses, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/GoodsInWarehauses |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<GoodsInWarehauses>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/GoodsInWarehauses/id** | |
| DESCRIPTION | Gets one exact entity of GoodsInWarehauses, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/GoodsInWarehauses/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"GoodsInWarehauses": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/GoodsInWarehauses** | |
| DESCRIPTION | Sends new entity of GoodsInWarehauses to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/GoodsInWarehauses |
| METHOD | POST |
| PARAMETERS | name: GoodsInWarehauses, type: JSON. One requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/GoodsInWarehauses/id** | |
| DESCRIPTION | Deletes one exact entity of GoodsInWarehauses in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/GoodsInWarehauses/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/GoodsInWarehauses** | |
| DESCRIPTION | Updates one exact entity of GoodsInWarehauses in DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/GoodsInWarehauses |
| METHOD | PUT |
| PARAMETERS | name: GoodsInWarehauses, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**Restrictions**

Restrictions is one of the supporting entities in application – its API controller represents CRUD functionality for work with dictionary of goods restrictions.

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| **/api/Restrictions** | |
| DESCRIPTION | Gets the list of all Restrictions, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Restrictions |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<Restrictions>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/Restrictions/id** | |
| DESCRIPTION | Gets one exact entity of Restriction, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Restrictions/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"Restrictions": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/Restrictions** | |
| DESCRIPTION | Sends new entity of Restrictions to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Restrictions |
| METHOD | POST |
| PARAMETERS | name: Restrictions, type: JSON. One requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/Restrictions/id** | |
| DESCRIPTION | Deletes one exact entity of Restrictions in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Restrictions/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/Restrictions** | |
| DESCRIPTION | Updates one exact entity of Restrictions in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Restrictions> |
| METHOD | PUT |
| PARAMETERS | name: Restrictions, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**RestrictionsSet**

RestrictionsSet is one of the supporting entities in application – its API controller represents CRUD functionality for set of restrictions of exact good.

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| **/api/RestrictionsSet** | |
| DESCRIPTION | Gets the list of all RestrictionsSet, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/RestrictionsSet |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<RestrictionsSet>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/RestrictionsSet/id** | |
| DESCRIPTION | Gets one exact entity of RestrictionsSet, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/RestrictionsSet/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"RestrictionsSet": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/RestrictionsSet** | |
| DESCRIPTION | Sends new entity of RestrictionsSet to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/RestrictionsSet |
| METHOD | POST |
| PARAMETERS | name: Transactions, type: JSON. One requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/RestrictionsSet/id** | |
| DESCRIPTION | Deletes one exact entity of RestrictionsSet in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/RestrictionsSet/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/RestrictionsSet** | |
| DESCRIPTION | Updates one exact entity of RestrictionsSet in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/RestrictionsSet> |
| METHOD | PUT |
| PARAMETERS | name: RestrictionsSet, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**Roles**

Roles is one of the supporting entities in application – its API controller represents CRUD functionality for managing roles dictionary.

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| **/api/Roles** | |
| DESCRIPTION | Gets the list of all Roles, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Roles |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<Roles>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/Roles/id** | |
| DESCRIPTION | Gets one exact entity of Roles, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Roles/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"Roles": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/Roles** | |
| DESCRIPTION | Sends new entity of Roles to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Roles |
| METHOD | POST |
| PARAMETERS | name: Roles, type: JSON. One requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/Roles/id** | |
| DESCRIPTION | Deletes one exact entity of Roles in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Roles/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| **/api/Roles** | |
| DESCRIPTION | Updates one exact entity of Roles in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Roles> |
| METHOD | PUT |
| PARAMETERS | name: Roles, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**Sizes**

Sizes of Goods is one of the supporting entities in application – its API controller represents CRUD functionality for work with its dictionary.

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| **/api/Sizes** | |
| DESCRIPTION | Gets the list of all Sizes, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Sizes |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<Sizes>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/Sizes/id** | |
| DESCRIPTION | Gets one exact entity of Sizes, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Sizes/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"transaction": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/Sizes** | |
| DESCRIPTION | Sends new entity of Sizes to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Sizes |
| METHOD | POST |
| PARAMETERS | name: Transactions, type: JSON. One requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/Sizes/id** | |
| DESCRIPTION | Deletes one exact entity of Sizes in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Sizes/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/Sizes** | |
| DESCRIPTION | Updates one exact entity of Sizes in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Sizes> |
| METHOD | PUT |
| PARAMETERS | name: Sizes, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**TranactionType**

TranactionType is one of the supporting entities in application – its API controller represents CRUD functionality for managing dictionary of transaction types.

|  |  |
| --- | --- |
| **/api/TranactionType** | |
| DESCRIPTION | Gets the list of all TranactionType, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/TranactionType |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<TranactionType>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/TranactionType/id** | |
| DESCRIPTION | Gets one exact entity of TranactionType, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/TranactionType/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"TranactionType ": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/TranactionType** | |
| DESCRIPTION | Sends new entity of TranactionType to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/TranactionType |
| METHOD | POST |
| PARAMETERS | name: TranactionType, type: JSON. One requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/TranactionType/id** | |
| DESCRIPTION | Deletes one exact entity of TranactionType in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/TranactionType/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/TranactionType** | |
| DESCRIPTION | Updates one exact entity of TranactionType in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/TranactionType> |
| METHOD | PUT |
| PARAMETERS | name: TranactionType, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**Transactions**

Transactions is one of the main entities in application – its API controller represents CRUD functionality for goods moving activity.

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| --- | --- |
| **/api/Transactions** | |
| DESCRIPTION | Gets the list of all transactions, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Transactions |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<Transactions>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/Transactions/id** | |
| DESCRIPTION | Gets one exact entity of Transaction, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Transactions/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"transaction": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

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| --- | --- |
| **/api/Transactions** | |
| DESCRIPTION | Sends new entity of Transactions to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Transactions |
| METHOD | POST |
| PARAMETERS | name: Transactions, type: JSON. One requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/Transactions/id** | |
| DESCRIPTION | Deletes one exact entity of Transactions in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Transactions/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/Transactions** | |
| DESCRIPTION | Updates one exact entity of Transactions in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Transactions> |
| METHOD | PUT |
| PARAMETERS | name: Transactions, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**TypeOfStorage**

TypeOfStorage is one of the supporting entities in application – its API controller represents CRUD functionality for managing its dictionary.

|  |  |
| --- | --- |
| **/api/TypeOfStorage** | |
| DESCRIPTION | Gets the list of all TypeOfStorage, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/TypeOfStorage |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<TypeOfStorage>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/TypeOfStorage/id** | |
| DESCRIPTION | Gets one exact entity of TypeOfStorage, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/TypeOfStorage/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"TypeOfStorage": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/TypeOfStorage** | |
| DESCRIPTION | Sends new entity of TypeOfStorage to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/TypeOfStorage |
| METHOD | POST |
| PARAMETERS | name: TypeOfStorage, type: JSON. One requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/TypeOfStorage/id** | |
| DESCRIPTION | Deletes one exact entity of TypeOfStorage in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/TypeOfStorage/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/TypeOfStorage** | |
| DESCRIPTION | Updates one exact entity of TypeOfStorage in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/TypeOfStorage> |
| METHOD | PUT |
| PARAMETERS | name: TypeOfStorage, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**Users**

User is one of the main entities in application – its API controller represents CRUD functionality for managing its dictionary.

|  |  |
| --- | --- |
| **/api/Users** | |
| DESCRIPTION | Gets the list of all Users, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Users |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<Users>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/Users/id** | |
| DESCRIPTION | Gets one exact entity of Users, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/Users/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"Users": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/Users** | |
| DESCRIPTION | Sends new entity of Users to DB. |
| URL STRUCTURE | http://localhost/EFlocal/api/Users |
| METHOD | POST |
| PARAMETERS | name: Users, type: JSON. One entity of Users to create and save in DB. |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/Users/id** | |
| DESCRIPTION | Deletes one exact entity of Users in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Users/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/Users** | |
| DESCRIPTION | Updates one exact entity of Users in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/Users> |
| METHOD | PUT |
| PARAMETERS | name: Users, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**UserRole**

UserRole is one of the supporting entities in application – its API controller represents CRUD functionality for managing its dictionary.

|  |  |
| --- | --- |
| **/api/UserRole** | |
| DESCRIPTION | Gets the list of all UserRole, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/UserRole |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<UserRole>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/UserRole/id** | |
| DESCRIPTION | Gets one exact entity of UserRole, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/UserRole/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"UserRole": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/UserRole** | |
| DESCRIPTION | Sends new entity of UserRole to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/UserRole |
| METHOD | POST |
| PARAMETERS | name: UserRole, type: JSON. One requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/UserRole/id** | |
| DESCRIPTION | Deletes one exact entity of UserRole in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/UserRole/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/UserRole** | |
| DESCRIPTION | Updates one exact entity of UserRole in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/UserRole> |
| METHOD | PUT |
| PARAMETERS | name: UserRole, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

**WarehousesPlaces**

WarehousesPlaces is one of the supporting entities in application – its API controller represents CRUD functionality for managing its dictionary.

|  |  |
| --- | --- |
| **/api/WarehousesPlaces** | |
| DESCRIPTION | Gets the list of all WarehousesPlaces, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/WarehousesPlaces |
| METHOD | GET |
| PARAMETERS | API supports OData client-side paging.  name: order, type: String?. Sets the sort order for query.  name: skip, type: String?. Comes in pair with top. Sets number of skipped elements in query for return.  name: top, type: String?. Sets number of displayed elements in query for return. |
| RETURNS | type: JSON-encoded List<WarehousesPlaces>. Returns list of all requested entities, available to this User. Sample response: { **"list": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/WarehousesPlaces/id** | |
| DESCRIPTION | Gets one exact entity of WarehousesPlaces, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/WarehousesPlaces/id |
| METHOD | GET |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | type: JSON. One entity if it`s available to this User. Sample response: { **"WarehousesPlaces": "ABCDEFG", …**} |
| ERRORS | 401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/WarehousesPlaces** | |
| DESCRIPTION | Sends new entity of WarehousesPlaces to DB, according availability for logged user role |
| URL STRUCTURE | http://localhost/EFlocal/api/WarehousesPlaces |
| METHOD | POST |
| PARAMETERS | name: WarehousesPlaces, type: JSON. One requested entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to insert in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/WarehousesPlaces/id** | |
| DESCRIPTION | Deletes one exact entity of WarehousesPlaces in DB, according availability for logged user role |
| URL STRUCTURE | <http://localhost/EFlocal/api/WarehousesPlaces/id> |
| METHOD | DELETE |
| PARAMETERS | name: Id, type: string. Represents Id of targeted entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to delete in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |

|  |  |
| --- | --- |
| **/api/WarehousesPlaces** | |
| DESCRIPTION | Updates one exact entity of WarehousesPlaces in DB, according availability for logged user role |
| URL STRUCTURE | [http://localhost/EFlocal/api/WarehousesPlaces](http://localhost/EFlocal/api/WarehousesPlaces/id) |
| METHOD | PUT |
| PARAMETERS | name: WarehousesPlaces, type: JSON. One entity of updated entity |
| RETURNS | At success – HTTP code 200  At fail – HTTP code 400 |
| ERRORS | 400 – Failed to update in DB  401 – User is not authorized  403 – CSRF check is not passed  415 – JSON request is not valid  503 – DB is unreachable |