CLaaS API Errors

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1. Brief

This document describes all CLaaS (Continual Learning As A Service) API errors.

Errors are divided in 5 categories:

- *authentication errors*: authentication failed (invalid or expired token);
- *authorization errors*: current user cannot perform the operation (indipendently on authentication);
- *syntax errors*: request body is not in a correct format (either because it lacks the *@<name>* tags or because JSON syntax is incorrect;
- *validation errors*: request parameters are not syntactically correct (while JSON generic syntax is correct) or do not satisfy validation requirements;
- *server errors*: unknown internal server errors or failures, unavailable service etc.

2. Tables Syntax

- **name**: name of the error;
- **code**: status code of the response associated with that error;
- **message**: default error message (can be overwritten);
- **extra**: extra parameters that could be included in the JSON error response;
- **description**: short description of the error.

3. Authentication Errors

NAME	CODE	MESSAGE	EXTRA	DESCRIPTION
InvalidToken	401	The request must contain a valid authentication token.		Token is different from the correct one.
MissingToken	401	Authentication token is missing.		

4. Authorization Errors

NAME	CODE	MESSAGE	EXTRA	DESCRIPTION
PermissionDenied	403	You do not have sufficient access to perform this action.		Needed an extra permission to do this (e.g., to authenticate

					with that user accounts).
ForbiddenOperation	403	The operation cannot be performed.			Operation is forbidden for any user.

5. Syntax Errors

NAME	CODE	MESSAGE	EXTRA	DESCRIPTION
BadJSONSyntax	400	The request body is not in a correct JSON format.		Failure to build JSON from request body.
BadRequestSyntax	400	The request syntax is incorrect.		Request syntax does not conform to operation standard.
MalformedQueryString	400	The query string contains a syntax error.		
MissingParameter	400	Missing parameter '{parameter}'.		The request body does not contain a required parameter.

6. Validation Errors

NAME	CODE	MESSAGE	EXTRA	DESCRIPTION
InvalidUsername	400	The username provided is invalid.		Shortcut for InvalidParameterValue with "username", or a syntax error in the email field.
InvalidEmail	400	The email provided is invalid.		Shortcut for InvalidParameterValue with "email", or a syntax error in the email field.
InvalidPassword	400	The password provided is invalid.		Shortcut for InvalidParameterValue with "password", or a syntax error in the email field.
InvalidParameterCombination	400	Parameters that must not be used together were used together.	params: a list of the invalid parameters.	
InvalidParameterValue	400	Invalid value for the parameter '{parameter}'.		Parameter is given an invalid value or (if referring to a unique field) the value is already in use.
InvalidParameter	400	Unknown parameter '{parameter}'.		The request does not allow extra "on-demand" parameters and contains an unknown parameter.

NAME	CODE	MESSAGE	EXTRA	DESCRIPTION
InvalidQueryParameter	400	Unknown query parameter '{parameter}'.		
NotExistingUser	404	The user '{user}' does not exist.		
ExistingUser	400	The user '{user}' already exists.		Preferred over InvalidUsername for already existing user.
ResourceNotFound	404	Resource '{resource}' not found.		

7. Server Errors

NAME	CODE	MESSAGE	EXTRA	DESCRIPTION
InternalFailure	500	The request processing has failed because of an unknown error, exception or failure.		
ServiceUnavailable	503	The request has failed due to a temporary failure of the server.		