

ODATA API FOR MEDIA WIKI

Version: 0.1

HOME

Questions?

Please email authors for questions.

System

OData API for Media Wiki [[ODataMediaWiki](#)]

Name: OData API for Media Wiki
Authors: Aashish Salokhe - Kedar Deshpande -
Description: This API provides a way to query and update the pages of media wiki. The API is an OData endpoint which accepts various user queries and in response provides user the ability to read and manipulate media wiki pages. Being the API that follows the OData standard, it exposes the Entity Data Model and it is assumed that the queries that the user makes follow the url conventions of OData standard. This API acts as a facade to the Media Wiki features, data and metadata.
Organizations: Northeastern University -
Creation Date: May 20, 2013

Media Wiki API [[MediaWikiAPI](#)]

Name: Media Wiki API
Authors:
Description: This web service API provides direct,

high-level access to the data contained in MediaWiki databases. Client programs can get data, and post changes automatically by making HTTP requests through the web service.

Organizations: Wikimedia Foundation -

Creation Date:

System Actors

Administrator [Admin]

Description: The administrator who manages the API set-up and creates the endpoint. The administrator configures, starts and stops the OData API service. The administrator is responsible for mapping between the data of Media Wiki and OData.

API Client [Client]

Description: A user of the OData Media Wiki API. This includes any process that requests Media Wiki data by using HTTP URL queries. A user can be a browser that makes the request or a web-client code that instantiates the service and makes calls on it. The queries/URLs should be constructed by following the OData URL Conventions to identify data and metadata exposed by an OData service.

Use Cases

Request for Entity Data Model [requestEDM]

Description:
The client of the API wants the metadata for the Media Wiki OData API in the form of a CSDL which is XML representation of the Entity Data Model.

Step-by-step Description:

1. [\[#User\]](#) - A user constructs the URL to retrieve the metadata from OData Media Wiki.
2. [\[#User\]](#) - The user makes the request using HTTP URL query for metadata.
3. [\[#ODataMediaWiki\]](#) - The OData Media Wiki endpoint receives the user request and generates the Entity Data Model for Media Wiki.
4. [\[#ODataMediaWiki\]](#) - The OData Media Wiki endpoint returns the metadata in the form of XML document in response.
5. [\[#User\]](#) - The user receives the service response.

Setup OData endpoint for Media Wiki [[setupODataEndpoint](#)]**Description:**

To set-up and configure the OData endpoint for Media Wiki for allowing users to query and access data and metadata.

Step-by-step Description:

1. [\[#Administrator\]](#) - Set up Media Wiki API using MySQL database and Apache and API source.
2. [\[#Administrator\]](#) - Compile odata4j source along with ODataMediaWikiProducer
3. [\[#Administrator\]](#) - Run ODataMediaWikiProducer java process

to start the endpoint at 'http://....'

4. [\[#Administrator\]](#) - The OData Media Wiki endpoint is setup successfully.

Create entities on Media Wiki data [[createEntities](#)]

Description:

The client of the API wants to create entities on Media Wiki data such as create new page.

Step-by-step Description:

1. [\[#User\]](#) - A user constructs the URL to create entity on OData Media Wiki.
2. [\[#User\]](#) - The user makes the request using HTTP URL query.
3. [\[#ODataMediaWiki\]](#) - The OData Media Wiki endpoint receives the user request and generates the media wiki API query according to the user's request.
4. [\[#ODataMediaWiki\]](#) - The OData Media Wiki endpoint makes the API request Media Wiki.
5. [\[#MediaWiki\]](#) - The Media Wiki API creates the required entities on Media Wiki database as per request and returns success.
6. [\[#ODataMediaWiki\]](#) - The Odata Media Wiki endpoint receives response from Media Wiki API and returns success to user.
7. [\[#User\]](#) - The user receives the service

response.

Update entities on Media Wiki data [**updateEntities**]

Description:

The client of the API wants to update entities on Media Wiki data such as edit a page's contents.

Step-by-step Description:

1. **[#User]** - A user constructs the URL to update an entity on OData Media Wiki.
2. **[#User]** - The user makes the request using HTTP URL query.
3. **[#ODataMediaWiki]** - The OData Media Wiki endpoint receives the user request and generates the media wiki API query according to the user's request.
4. **[#ODataMediaWiki]** - The OData Media Wiki endpoint makes the API request Media Wiki.
5. **[#MediaWiki]** - The Media Wiki API updates the required entities on Media Wiki database as per request and returns the updated entity.
6. **[#ODataMediaWiki]** - The Odata Media Wiki endpoint receives response from Media Wiki API and returns updated entity to the user.
7. **[#User]** - The user receives updated entity as the service response.

Delete entity on Media Wiki data [**deleteEntities**]

Description:

The client of the API wants to delete an entity on Media Wiki data such as delete a page.

Step-by-step Description:

1. [\[#User\]](#) - A user constructs the URL to delete an entity on OData Media Wiki.
2. [\[#User\]](#) - The user makes the request using HTTP URL query.
3. [\[#ODataMediaWiki\]](#) - The OData Media Wiki endpoint receives the user request and generates the media wiki API query according to the user's request.
4. [\[#ODataMediaWiki\]](#) - The OData Media Wiki endpoint makes the API request Media Wiki.
5. [\[#MediaWiki\]](#) - The Media Wiki API deletes the required entities dfrom Media Wiki database as per request and returns success.
6. [\[#ODataMediaWiki\]](#) - The Odata Media Wiki endpoint receives response from Media Wiki API and returns success to the user.
7. [\[#User\]](#) - The user receives the service response.

Read entities on Media Wiki data [**readEntities**]

Description:

The client of the API wants to retrieve/read entities on Media Wiki data such as retrieve a page.

Step-by-step Description:

1. [\[#User\]](#) - A user constructs the URL to retrieve entities on OData Media Wiki.
2. [\[#User\]](#) - The user makes the request using HTTP URL query.
3. [\[#ODataMediaWiki\]](#) - The OData Media Wiki endpoint receives the user request and generates the media wiki API query according to the user's request.
4. [\[#ODataMediaWiki\]](#) - The OData Media Wiki endpoint makes the API request Media Wiki.
5. [\[#MediaWiki\]](#) - The Media Wiki API retrieves the required entities dfrom Media Wiki database as per request and returns the entities.
6. [\[#ODataMediaWiki\]](#) - The Odata Media Wiki endpoint receives response from Media Wiki API and returns the entities to the user.
7. [\[#User\]](#) - The user receives requested entities as a response from the service response.

Alternative Flows:

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