Documentation

Please note that the code provided in this page is *purely* for learning purposes and is far from perfect. Remember to null-check all responses!

Setup

Add an instance of [OperationsManager](#) to your scene. You will need [OAuth access tokens⧉](#) to authenticate with the operations API. The OAuth permissions required depend on the services you will be using.

OperationsManager

There's only one method in `OperationsManager`, with a few variants. The `Request` method is used to send requests to the operations API. The following examples will be using the [Gemini API⧉](#) to demonstrate the capabilities of this package.

Operations.List

> Lists service operations that match the specified filter in the request.
>
> *Filters are not guaranteed to work.*

```
using Uralstech.UCloud.Operations;

private async void RunOperationsListRequest(string oauthAccessToken)
{
    Debug.Log("Listing all operations.");

    OperationsListResponse response = await
OperationsManager.Instance.Request<OperationsListResponse>(oauthAccessToken,
        new OperationsListRequest(
            new OperationFilterConditions()
            {
                OperandA = new OperationFilterConditionOperand { Field =
FilteringField.Status },
                Operator = OperationFilterOperator.EqualTo,
                OperandB = new OperationFilterConditions
                {
                    OperandA = new OperationFilterConditionOperand { Status =
OperationRunningStatus.Finished }
                }
            })
        {
```

```
        // This should be replaced with the base URI to the service you are using.
        // For example, if your service's operations endpoint is: abc.com/v1/operations,
        // the URI will be abc.com/v1. If it is abc.com/v1/resource/cba/operations, the
        // URI will be abc.com/v1/resource/cba.
        BaseServiceUri = "https://generativelanguage.googleapis.com/v1",
    });

    Debug.Log($"All operations: {JsonConvert.SerializeObject(response)}");
}
```

Since operations on different services have different result types, there are two versions of
OperationsListResponse. A non-generic version, which is being used above, OperationsListResponse, and
a generic version, in the Generic namespace, OperationsListResponse<TOperation>, which can be
overridden with any type that inherits from Operation<TMetadata, TResponse>.

The non-generic version overrides OperationsListResponse<TOperation> with Operation, which uses the
ProtobufObject type as the data. An example of Operation<TMetadata, TResponse> being overridden is
GeminiTunedModelCreateResponse⧉ Where TMetadata is GeminiTunedModelCreationOperationMetadata⧉
and TResponse is GeminiTunedModel⧉.

See OperationsListRequest for more details.

Operations.Get

> Gets the latest state of a long-running operation.

```
using Uralstech.UCloud.Operations;

private async void RunOperationGetRequest(string oauthAccessToken,
string operationResourceName)
{
    Debug.Log("Getting operation.");

    Operation response = await OperationsManager.Instance.Request<Operation>
(oauthAccessToken,
        new OperationGetRequest(operationResourceName)
        {
            BaseServiceUri = "https://generativelanguage.googleapis.com/v1",
        });

    Debug.Log($"Got operation: {JsonConvert.SerializeObject(response)}");
}
```

You can use [Operation<TMetadata, TResponse>](#) instead of [Operation](#), just like for `OperationsListRequest`.

See [OperationGetRequest](#) for more details.

Operations.Cancel

> Cancels an ongoing long-running operation.
>
> This is not supported for all services.

```csharp
using Uralstech.UCloud.Operations;

private async void RunOperationCancelRequest(string oauthAccessToken,
string operationResourceName)
{
    Debug.Log("Cancelling operation.");

    await OperationsManager.Instance.Request(oauthAccessToken,
        new OperationCancelRequest(operationResourceName)
        {
            BaseServiceUri = "https://generativelanguage.googleapis.com/v1",
        });

    Debug.Log("Operation cancelled.");
}
```

See [OperationCancelRequest](#) for more details.

Operations.Delete

> Deletes an ongoing long-running operation. This may or may not actually stop the operation process.
>
> This is not supported for all services.

```csharp
using Uralstech.UCloud.Operations;

private async void RunOperationDeleteRequest(string oauthAccessToken,
string operationResourceName)
{
    Debug.Log("Deleting operation.");

    await OperationsManager.Instance.Request(oauthAccessToken,
```

```
        new OperationDeleteRequest(operationResourceName)
        {
            // generativelanguage.googleapis.com does not support this operation!
            BaseServiceUri = "https://abcdefg.someuri.com/v90",
        });

    Debug.Log("Operation deleted.");
}
```

See OperationDeleteRequest for more details.