UGemini

1.2.3

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Chapter 4

Namespace Documentation

4.1 Uralstech Namespace Reference

4.2 Uralstech.UGemini Namespace Reference

Classes

- class **EnumExtensions**

  Extensions for Enum type objects.
- class GeminiContent

  The base structured datatype containing multi-part content of a message.
- class GeminiContentBlob

  Raw media bytes.
- class GeminiContentPart

  A datatype containing media that is part of a multi-part Content message. Must only contain one field at a time.
- class GeminiFileData

  URI based data.
- class GeminiManager

  The class for accessing the Gemini API!
- class GeminiRequestMetadata

  Metadata about a computation request.
- interface IAppendableData

  An interface for data that is to be appended to at runtime.
- interface IGeminiDeleteRequest

  All Gemini API DELETE requests must inherit from this interface.
- interface IGeminiGetRequest

  All Gemini API GET requests must inherit from this interface.
- interface IGeminiMultiPartPostRequest

  All Gemini API POST requests with multi-part data must inherit from this interface.
- interface IGeminiPostRequest

  All Gemini API POST requests must inherit from this interface.
- interface IGeminiRequest

  All Gemini API requests must inherit from this interface.
- interface IGeminiStreamablePostRequest

  All streamed Gemini API POST requests must inherit from this interface.
- class **UnityExtensions**

  Extensions for Unity types.

Enumerations

- enum GeminiContentType {
  ImagePNG , ImageJPEG , ImageHEIC , ImageHEIF ,
  ImageWebP , AudioWAV , AudioMP3 , AudioAIFF ,
  AudioAAC , AudioOGG , AudioFLAC , VideoMP4 ,
  VideoMPEG , VideoMOV , VideoAVI , VideoXFLV ,
  VideoMPG , VideoWebM , VideoWMV , Video3GPP ,
  TextPlain , TextHTML , TextCSS , TextJavaScript ,
  TextXTypeScript , TextCSV , TextMarkdown , TextXPython ,
  TextXML , TextRTF , ApplicationXJavaScript , ApplicationXTypeScript ,
  ApplicationXPython , ApplicationJSON , ApplicationRTF }

  Enum for the types of content able to be fed to the Gemini API.
- enum GeminiRole { Unspecified , User , Assistant , ToolResponse }

  The role of a Gemini content creator.
- enum GeminiSafetyHarmCategory {
  Unspecified , Derogatory , Toxicity , Violence ,
  Sexual , Medical , Dangerous , Harassment ,
  HateSpeech , SexuallyExplicit , DangerousContent }

  The category of a rating.

4.2.1 Enumeration Type Documentation

4.2.1.1 GeminiContentType

`enum Uralstech.UGemini.GeminiContentType`

Enum for the types of content able to be fed to the Gemini API.

Enumerator

ImagePNG	A PNG image.
ImageJPEG	A JPEG image.
ImageHEIC	A HEIC image.
ImageHEIF	A HEIF image.
ImageWebP	A WebP image.
AudioWAV	WAV encoded audio.
AudioMP3	MP3 encoded audio.
AudioAIFF	AIFF encoded audio.
AudioAAC	AAC encoded audio.
AudioOGG	OGG encoded audio.
AudioFLAC	FLAC encoded audio.
VideoMP4	MP4 encoded video.
VideoMPEG	MPEG encoded video.
VideoMOV	MOV encoded video.
VideoAVI	AVI encoded video.
VideoXFLV	FLV encoded video.
VideoMPG	MPG encoded video.
VideoWebM	WebM encoded video.
VideoWMV	WMV encoded video.
Video3GPP	3GPP encoded video.
TextPlain	(File API) Plain text.

Enumerator

TextHTML	(File API) HTML text.
TextCSS	(File API) CSS text.
TextJavaScript	(File API) JavaScript text.
TextXTypeScript	(File API) TypeScript text.
TextCSV	(File API) CSV text.
TextMarkdown	(File API) Markdown text.
TextXPython	(File API) Python text.
TextXML	(File API) XML text.
TextRTF	(File API) RTF text.
ApplicationXJavaScript	(File API) Application JavaScript content.
ApplicationXTypeScript	(File API) Application TypeScript content.
ApplicationXPython	(File API) Application Python content.
ApplicationJSON	(File API) Application JSON content.
ApplicationRTF	(File API) Application RTF content.

4.2.1.2 GeminiRole

`enum Uralstech.UGemini.GeminiRole`

The role of a Gemini content creator.

Enumerator

Unspecified	Don't use this.
User	The content was made by the user.
Assistant	The content was made by the model.
ToolResponse	The content was made by a function. Only available in the beta API.

4.2.1.3 GeminiSafetyHarmCategory

`enum Uralstech.UGemini.GeminiSafetyHarmCategory`

The category of a rating.

Enumerator

Unspecified	Category is unspecified.
Derogatory	Negative or harmful comments targeting identity and/or protected attribute.
Toxicity	Content that is rude, disrespectful, or profane.
Violence	Describes scenarios depicting violence against an individual or group, or general descriptions of gore.
Sexual	Contains references to sexual acts or other lewd content.
Medical	Promotes unchecked medical advice.
Dangerous	Dangerous content that promotes, facilitates, or encourages harmful acts.
Harassment	Harasment content.
HateSpeech	Hate speech and content.
SexuallyExplicit	Sexually explicit content.
DangerousContent	Dangerous content.

4.3 Uralstech.UGemini.Chat Namespace Reference

Classes

- class GeminiAttributionSourceId

  Identifier for the source contributing to this attribution.
- class GeminiCandidate

  A response candidate generated from the model.
- class GeminiChatRequest

  Request to generate a response from the model.
- class GeminiChatResponse

  Response from the model supporting multiple candidates.
- class GeminiCitationMetadata

  A collection of source attributions for a piece of content.
- class GeminiCitationSource

  A citation to a source for a portion of a specific response.
- class GeminiGenerationConfiguration

  Configuration options for model generation and outputs. Not all parameters may be configurable for every model.
- class GeminiGroundingAttribution

  Attribution for a source that contributed to an answer.
- class GeminiGroundingPassageId

  Identifier for a part within a GroundingPassage.
- class GeminiPromptFeedback

  A set of the feedback metadata the prompt specified in GeminiChatResponse.Candidates.
- class GeminiSafetyRating

  Safety rating for a piece of content.
- class GeminiSafetySettings

  Safety setting, affecting the safety-blocking behavior.
- class GeminiSemanticRetrieverChunk

  Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequest using SemanticRetrieverConfig.
- class GeminiUsageMetadata

  Metadata on the generation request's token usage.

Enumerations

- enum GeminiResponseType { Unspecified , PlainText , Json }

  The response type for Gemini model responses.
- enum GeminiSafetyHarmBlockThreshold { Unspecified , LowAndAbove , MediumAndAbove , OnlyHigh , None }

  Block at and beyond a specified harm probability.
- enum GeminiFinishReason { Unspecified , Stop , MaxTokens , Safety , Recitation , Other }

  Defines the reason why the model stopped generating tokens.
- enum GeminiBlockReason { Unspecified , Safety , Other }

  Specifies what was the reason why prompt was blocked.
- enum GeminiHarmProbability { Unspecified , Negligible , Low , Medium , High }

  The probability that a piece of content is harmful.

4.3.1 Enumeration Type Documentation

4.3.1.1 GeminiBlockReason

`enum Uralstech.UGemini.Chat.GeminiBlockReason`

Specifies what was the reason why prompt was blocked.

Enumerator

Unspecified	Default value. This value is unused.
Safety	Prompt was blocked due to safety reasons. You can inspect GeminiPromptFeedback.SafetyRatings to understand which safety category blocked it.
Other	Prompt was blocked due to unknown reasons.

4.3.1.2 GeminiFinishReason

`enum Uralstech.UGemini.Chat.GeminiFinishReason`

Defines the reason why the model stopped generating tokens.

Enumerator

Unspecified	Default value. This value is unused.
Stop	Natural stop point of the model or provided stop sequence.
MaxTokens	The maximum number of tokens as specified in the request was reached.
Safety	The candidate content was flagged for safety reasons.
Recitation	The candidate content was flagged for recitation reasons.
Other	Unknown reason.

4.3.1.3 GeminiHarmProbability

`enum Uralstech.UGemini.Chat.GeminiHarmProbability`

The probability that a piece of content is harmful.

The classification system gives the probability of the content being unsafe. This does not indicate the severity of harm for a piece of content.

Enumerator

Unspecified	Probability is unspecified.
Negligible	Content has a negligible chance of being unsafe.
Low	Content has a low chance of being unsafe.
Medium	Content has a medium chance of being unsafe.
High	Content has a high chance of being unsafe.

4.3.1.4 GeminiResponseType

`enum Uralstech.UGemini.Chat.GeminiResponseType`

The response type for Gemini model responses.

Enumerator

Unspecified	Unspecified, don't use.
PlainText	(default) Plain text response type.
Json	JSON response type.

4.3.1.5 GeminiSafetyHarmBlockThreshold

`enum Uralstech.UGemini.Chat.GeminiSafetyHarmBlockThreshold`

Block at and beyond a specified harm probability.

Enumerator

Unspecified	Threshold is unspecified.
LowAndAbove	Content with GeminiHarmProbability.Negligible will be allowed.
MediumAndAbove	Content with GeminiHarmProbability.Negligible and GeminiHarmProbability.Low will be allowed.
OnlyHigh	Content with GeminiHarmProbability.Negligible, GeminiHarmProbability.Low, and GeminiHarmProbability.Medium will be allowed.
None	All content will be allowed.

4.4 Uralstech.UGemini.Exceptions Namespace Reference

Classes

- class GeminiRequestException

  Thrown when a Gemini API request fails.

4.5 Uralstech.UGemini.FileAPI Namespace Reference

Classes

- class GeminiFile

  Metadata for a file uploaded to the File API.
- class GeminiFileDeleteRequest

  Requests the deletion of a file.
- class GeminiFileGetRequest

  Requests metadata for an existing file. Return type is GeminiFile.
- class GeminiFileListRequest

  Requests metadata for all existing files. Return type is GeminiFileListResponse.
- class GeminiFileListResponse

  The response for a GeminiFileListRequest call.
- class GeminiFileUploadMetaData

  Metadata for a GeminiFile to be uploaded.
- class GeminiFileUploadRequest

Uploads a file to the Gemini File API. Response type is GeminiFileUploadResponse.

- class GeminiFileUploadResponse

  Response for a file upload request.
- class GeminiFileVideoMetaData

  Metadata for a video GeminiFile.
- class GeminiTimeSpanJsonConverter

  Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan.

Enumerations

- enum GeminiFileState { Unspecified , Processing , Active , Failed }

  States for the lifecycle of a File.

4.5.1 Enumeration Type Documentation

4.5.1.1 GeminiFileState

`enum Uralstech.UGemini.FileAPI.GeminiFileState`

States for the lifecycle of a File.

Enumerator

Unspecified	The default value. This value is used if the state is omitted.
Processing	File is being processed and cannot be used for inference yet.
Active	File is processed and available for inference.
Failed	File failed processing.

4.6 Uralstech.UGemini.Schema Namespace Reference

Classes

- class GeminiSchema

  The Schema object allows the definition of input and output data types. These types can be objects, but also primitives and arrays. Represents a select subset of an OpenAPI 3.0 schema object.

Enumerations

- enum GeminiSchemaDataFormat { Unspecified , Float , Double , Int , Long , Enum , Base64Bytes , Binary , Date , DateTime }

  Defines the format of schema data.
- enum GeminiSchemaDataType { Unspecified , String , Float , Integer , Boolean , Array , Object }

  Contains the list of OpenAPI data types as defined by the `OpenAPI Specification`.

4.6.1 Enumeration Type Documentation

4.6.1.1 GeminiSchemaDataFormat

`enum Uralstech.UGemini.Schema.GeminiSchemaDataFormat`

Defines the format of schema data.

Enumerator

Unspecified	Unspecified, don't use.
Float	Equivalent to float.
Double	Equivalent to double.
Int	Equivalent to int.
Long	Equivalent to long.
Enum	A string enum value.
Base64Bytes	A base64 encoded string of bytes.
Binary	A string of "any sequence of octets".
Date	Date string as defined by `full-date - RFC 3339`.
DateTime	Date and time string as defined by `date-time - RFC 3339`.

4.6.1.2 GeminiSchemaDataType

`enum Uralstech.UGemini.Schema.GeminiSchemaDataType`

Contains the list of OpenAPI data types as defined by the `OpenAPI Specification`.

Enumerator

Unspecified	Not specified, should not be used.
String	String type.
Float	Number/Float type.
Integer	Integer type.
Boolean	Boolean type.
Array	Array type.
Object	Object type.

4.7 Uralstech.UGemini.Status Namespace Reference

Classes

- class GeminiStatus

  The GeminiStatus type defines a logical error model that is suitable for different programming environments, including REST APIs and RPC APIs. It is used by gRPC.
- class GeminiStatusDetails

  An object containing fields of an arbitrary type.

4.8 Uralstech.UGemini.TokenCounting Namespace Reference

Classes

- class GeminiTokenCountRequest

  Request to count tokens in given content.
- class GeminiTokenCountResponse

  A response from CountTokens.

4.9 Uralstech.UGemini.Tools Namespace Reference

Classes

- class GeminiFunctionCall

  A predicted FunctionCall returned from the model that contains a string representing the FunctionDeclaration.name with the arguments and their values.
- class GeminiFunctionResponse

  The result output from a GeminiFunctionCall that contains a string representing the Declaration.GeminiFunctionDeclaration.Name and a structured JSON object containing any output from the function is used as context to the model. This should contain the result of a GeminiFunctionCall made based on model prediction.
- class GeminiFunctionResponseContent

  The response of a Gemini function call. Based on the Protocol Buffer `Struct` type.

4.10 Uralstech.UGemini.Tools.Declaration Namespace Reference

Classes

- class GeminiFunctionCallingConfiguration

  Configuration for specifying function calling behavior.
- class GeminiFunctionDeclaration

  Structured representation of a function declaration as defined by the OpenAPI 3.03 specification. Included in this declaration are the function name and parameters. This FunctionDeclaration is a representation of a block of code that can be used as a Tool by the model and executed by the client.
- class GeminiTool

  Tool details that the model may use to generate response.
- class GeminiToolConfiguration

  The Tool configuration containing parameters for specifying Tool use in the request.

Enumerations

- enum GeminiFunctionCallingMode { Unspecified , Auto , Any , None }

  Defines the execution behavior for function calling by defining the execution mode.

4.10.1 Enumeration Type Documentation

4.10.1.1 GeminiFunctionCallingMode

`enum Uralstech.UGemini.Tools.Declaration.GeminiFunctionCallingMode`

Defines the execution behavior for function calling by defining the execution mode.

Enumerator

Unspecified	Unspecified function calling mode. This value should not be used.
Auto	Default model behavior, model decides to predict either a function call or a natural language response.
Any	Model is constrained to always predicting a function call only. If GeminiFunctionCallingConfiguration.AllowedFunctionNames is set, the predicted function call will be limited to any one of GeminiFunctionCallingConfiguration.AllowedFunctionNames, else the predicted function call will be any one of the provided GeminiTool.FunctionDeclarations.
None	Model will not predict any function call. Model behavior is same as when not passing any function declarations.

4.11 Uralstech.UGemini.Utils Namespace Reference

4.12 Uralstech.UGemini.Utils.Singleton Namespace Reference

Classes

- class Singleton

  Utility class to make inheriting types singletons.

4.13 Uralstech.UGemini.Utils.Web Namespace Reference

Classes

- class **WebRequestHelper**

Chapter 5

Class Documentation

5.1 Uralstech.UGemini.Chat.GeminiAttributionSourceId Class Reference

Identifier for the source contributing to this attribution.

Public Attributes

- GeminiGroundingPassageId **GroundingPassage**

  Identifier for an inline passage.
- GeminiSemanticRetrieverChunk **SemanticRetrieverChunk**

  Identifier for a Chunk fetched via Semantic Retriever.

5.1.1 Detailed Description

Identifier for the source contributing to this attribution.

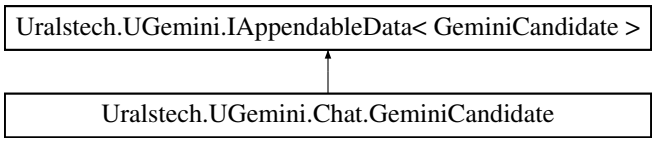
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/Attribution/Gemini↩ AttributionSourceId.cs

5.2 Uralstech.UGemini.Chat.GeminiCandidate Class Reference

A response candidate generated from the model.

Inheritance diagram for Uralstech.UGemini.Chat.GeminiCandidate:



Public Member Functions

- void **Append** (GeminiCandidate data)

Public Member Functions inherited from Uralstech.UGemini.IAppendableData< GeminiCandidate >

- void Append (T data)

  Appends the data to the current IAppendableData<T>.

Public Attributes

- GeminiContent **Content**

  Generated content returned from the model.
- GeminiFinishReason **FinishReason**

  The reason why the model stopped generating tokens.
- GeminiSafetyRating[ ] **SafetyRatings**

  List of ratings for the safety of a response candidate There is at most one rating per category.
- GeminiCitationMetadata CitationMetadata

  Citation information for model-generated candidate.
- int **TokenCount**

  Token count for this candidate.
- GeminiGroundingAttribution GroundingAttributions

  Attribution information for sources that contributed to a grounded answer.
- int **Index**

  Index of the candidate in the list of candidates.

5.2.1 Detailed Description

A response candidate generated from the model.

5.2.2 Member Data Documentation

5.2.2.1 CitationMetadata

```
GeminiCitationMetadata Uralstech.UGemini.Chat.GeminiCandidate.CitationMetadata
```

Citation information for model-generated candidate.

This field may be populated with recitation information for any text included in Content.
These are passages that are "recited" from copyrighted material in the foundational LLM's training data.

5.2.2.2 GroundingAttributions

```
GeminiGroundingAttribution Uralstech.UGemini.Chat.GeminiCandidate.GroundingAttributions
```

Attribution information for sources that contributed to a grounded answer.

This field is populated for GenerateAnswer calls.

Only available in the beta API.

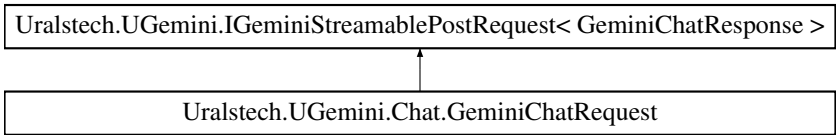
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/GeminiCandidate.cs

5.3 Uralstech.UGemini.Chat.GeminiChatRequest Class Reference

Request to generate a response from the model.

Inheritance diagram for Uralstech.UGemini.Chat.GeminiChatRequest:



Public Member Functions

- string **GetEndpointUri** (GeminiRequestMetadata metadata)
- GeminiChatRequest (string model=GeminiManager.Gemini1_5Flash, bool useBetaApi=false)

  Creates a new GeminiChatRequest.
- string **GetUtf8EncodedData** ()
- async Task **ProcessStreamedData** (List< JToken > allEvents, JToken lastEvent)

Public Member Functions inherited from Uralstech.UGemini.IGeminiStreamablePostRequest< GeminiChatResponse >

- Task ProcessStreamedData (List< JToken > allEvents, JToken lastEvent)

  Callback to process Server Sent Events (SSEs).

Public Attributes

- GeminiContent[ ] Contents

  The content of the current conversation with the model.
- GeminiTool[ ] Tools = null

  A list of Tools the model may use to generate the next response.
- GeminiToolConfiguration ToolConfig = null

  Tool configuration for any Tool specified in the request.
- GeminiSafetySettings[ ] SafetySettings = null

  A list of unique GeminiSafetySettings instances for blocking unsafe content.
- GeminiContent SystemInstruction = null

  Developer set system instruction. Currently, text only.
- GeminiGenerationConfiguration **GenerationConfig** = null

  Configuration options for model generation and outputs.
- string CachedContent = null

  The name of the cached content used as context to serve the prediction. Format: cachedContents/{cachedContent}.
- string **Model**

  The model to use.
- string **ApiVersion**

  The API version to use.
- Func< GeminiChatResponse, Task > **OnPartialResponseReceived**

  Callback for receiving streamed responses.

Properties

- string **ContentType** `[get]`
- GeminiChatResponse **StreamedResponse** `[get]`

  The streamed response.

Properties inherited from Uralstech.UGemini.IGeminiStreamablePostRequest< GeminiChatResponse >

- TResponse **StreamedResponse** `[get]`

  The response being streamed.

5.3.1 Detailed Description

Request to generate a response from the model.

5.3.2 Constructor & Destructor Documentation

5.3.2.1 GeminiChatRequest()

```
Uralstech.UGemini.Chat.GeminiChatRequest.GeminiChatRequest (
            string model = GeminiManager::Gemini1_5Flash,
            bool useBetaApi = false)
```

Creates a new GeminiChatRequest.

Parameters

model	The model to use.
useBetaApi	Should the request use the Beta API?

5.3.3 Member Data Documentation

5.3.3.1 CachedContent

```
string Uralstech.UGemini.Chat.GeminiChatRequest.CachedContent = null
```

The name of the cached content used as context to serve the prediction. Format: cachedContents/{cachedContent}.

Note: only used in explicit caching, where users can have control over caching (e.g. what content to cache) and enjoy guaranteed cost savings.

Only available in the beta API.

5.3.3.2 Contents

```
GeminiContent [] Uralstech.UGemini.Chat.GeminiChatRequest.Contents
```

The content of the current conversation with the model.

For single-turn queries, this is a single instance. For multi-turn queries, this is a repeated field that contains conversation history + latest request.

5.3.3.3 SafetySettings

```
GeminiSafetySettings [] Uralstech.UGemini.Chat.GeminiChatRequest.SafetySettings = null
```

A list of unique GeminiSafetySettings instances for blocking unsafe content.

This will be enforced on Contents and GeminiChatResponse.Candidates.
There should not be more than one setting for each GeminiSafetyHarmCategory type. The API will block any contents and responses that fail to meet the thresholds set by these settings. This list overrides the default settings for each GeminiSafetyHarmCategory specified in the SafetySettings. If there is no GeminiSafetySettings for a given GeminiSafetyHarmCategory provided in the list, the API will use the default safety setting for that category. Harm categories GeminiSafetyHarmCategory.HateSpeech, GeminiSafetyHarmCategory.SexuallyExplicit, GeminiSafetyHarmCategory.DangerousContent and GeminiSafetyHarmCategory.Harassment are supported.

5.3.3.4 SystemInstruction

```
GeminiContent Uralstech.UGemini.Chat.GeminiChatRequest.SystemInstruction = null
```

Developer set system instruction. Currently, text only.

Only available in the beta API.

5.3.3.5 ToolConfig

```
GeminiToolConfiguration Uralstech.UGemini.Chat.GeminiChatRequest.ToolConfig = null
```

Tool configuration for any Tool specified in the request.

Only available in the beta API.

5.3.3.6 Tools

```
GeminiTool [] Uralstech.UGemini.Chat.GeminiChatRequest.Tools = null
```

A list of Tools the model may use to generate the next response.

A Tool is a piece of code that enables the system to interact with external systems to perform an action, or set of actions,
outside of knowledge and scope of the model.The only supported tool is currently Function.

Only available in the beta API.

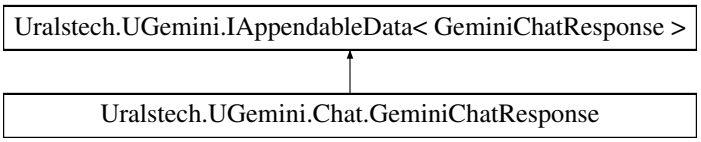
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatRequest/GeminiChatRequest.cs

5.4 Uralstech.UGemini.Chat.GeminiChatResponse Class Reference

Response from the model supporting multiple candidates.

Inheritance diagram for Uralstech.UGemini.Chat.GeminiChatResponse:



Public Member Functions

- void **Append** (GeminiChatResponse data)

Public Member Functions inherited from Uralstech.UGemini.IAppendableData< GeminiChatResponse >

- void Append (T data)

  Appends the data to the current IAppendableData<T>.

Public Attributes

- GeminiCandidate[ ] **Candidates**

  Candidate responses from the model.
- GeminiPromptFeedback **PromptFeedback**

  Returns the prompt's feedback related to the content filters.
- GeminiUsageMetadata **UsageMetadata**

  Metadata on the generation requests' token usage.

Properties

- GeminiContentPart[ ] **Parts** `[get]`

  The parts of the GeminiChatResponse message.

5.4.1 Detailed Description

Response from the model supporting multiple candidates.

Note on safety ratings and content filtering. They are reported for both prompt in PromptFeedback and for each candidate in GeminiCandidate.FinishReason and in GeminiCandidate.SafetyRatings. The API contract is that:

- either all requested candidates are returned or no candidates at all
- no candidates are returned only if there was something wrong with the prompt (see PromptFeedback)
- feedback on each candidate is reported on GeminiCandidate.FinishReason and GeminiCandidate.SafetyRatings.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/GeminiChatResponse.cs

5.5 Uralstech.UGemini.Chat.GeminiCitationMetadata Class Reference

A collection of source attributions for a piece of content.

Public Attributes

- GeminiCitationSource[ ] **CitationSources**

  Citations to sources for a specific response.

5.5.1 Detailed Description

A collection of source attributions for a piece of content.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/Citation/GeminiCitation↩ Metadata.cs

5.6 Uralstech.UGemini.Chat.GeminiCitationSource Class Reference

A citation to a source for a portion of a specific response.

Public Attributes

- int StartIndex

  Start of segment of the response that is attributed to this source.
- int **EndIndex**

  End of the attributed segment, exclusive.
- string **Uri**

  URI that is attributed as a source for a portion of the text.
- string **License**

  License for the GitHub project that is attributed as a source for segment.

5.6.1 Detailed Description

A citation to a source for a portion of a specific response.

5.6.2 Member Data Documentation

5.6.2.1 StartIndex

```
int Uralstech.UGemini.Chat.GeminiCitationSource.StartIndex
```

Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

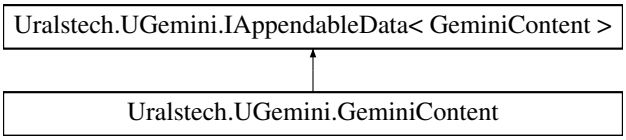
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/Citation/GeminiCitation↩ Source.cs

5.7 Uralstech.UGemini.GeminiContent Class Reference

The base structured datatype containing multi-part content of a message.

Inheritance diagram for Uralstech.UGemini.GeminiContent:



Public Member Functions

- void **Append** (GeminiContent data)

Public Member Functions inherited from Uralstech.UGemini.IAppendableData< GeminiContent >

- void Append (T data)

  Appends the data to the current IAppendableData<T>.

Static Public Member Functions

- static GeminiContent GetContent (string message, GeminiRole role=GeminiRole.Unspecified)

  Creates a new GeminiContent from a role and message.
- static GeminiContent GetContent (string message, Texture2D image, GeminiRole role=GeminiRole.Unspecified)

  Creates a new GeminiContent from a role, message and Texture2D.
- static GeminiContent GetContent (string message, GeminiFile file, GeminiRole role=GeminiRole.Unspecified)

  Creates a new GeminiContent from a role, message and GeminiFile.
- static GeminiContent GetContent (GeminiFunctionCall functionCall)

  Creates a new GeminiContent from a GeminiFunctionCall.
- static GeminiContent GetContent (GeminiFunctionResponse functionResponse)

  Creates a new GeminiContent from a GeminiFunctionResponse.

Public Attributes

- GeminiContentPart[ ] **Parts**

  Ordered Parts that constitute a single message. Parts may have different MIME types.
- GeminiRole **Role**

  Optional. The producer of the content.

5.7.1 Detailed Description

The base structured datatype containing multi-part content of a message.

5.7.2 Member Function Documentation

5.7.2.1 GetContent() [1/5]

```
static GeminiContent Uralstech.UGemini.GeminiContent.GetContent (
            GeminiFunctionCall functionCall)  [static]
```

Creates a new GeminiContent from a GeminiFunctionCall.

Parameters

functionCall	The function call.

Returns

A new GeminiContent object.

5.7.2.2 GetContent() [2/5]

```
static GeminiContent Uralstech.UGemini.GeminiContent.GetContent (
            GeminiFunctionResponse functionResponse)  [static]
```

Creates a new GeminiContent from a GeminiFunctionResponse.

Parameters

functionResponse	The function response.

Returns

A new GeminiContent object.

5.7.2.3 GetContent() [3/5]

```
static GeminiContent Uralstech.UGemini.GeminiContent.GetContent (
            string message,
            GeminiFile file,
            GeminiRole role = GeminiRole::Unspecified)  [static]
```

Creates a new GeminiContent from a role, message and GeminiFile.

Parameters

role	The role of the content creator.
message	The message.
file	The GeminiFile.

Returns

A new GeminiContent object.

5.7.2.4 GetContent() [4/5]

```
static GeminiContent Uralstech.UGemini.GeminiContent.GetContent (
            string message,
            GeminiRole role = GeminiRole::Unspecified)  [static]
```

Creates a new GeminiContent from a role and message.

Parameters

role	The role of the content creator.
message	The message.

Returns

A new GeminiContent object.

5.7.2.5 GetContent() [5/5]

```
static GeminiContent Uralstech.UGemini.GeminiContent.GetContent (
            string message,
            Texture2D image,
            GeminiRole role = GeminiRole::Unspecified)  [static]
```

Creates a new GeminiContent from a role, message and Texture2D.

Parameters

role	The role of the content creator.
message	The message.
image	The image texture.

Returns

A new GeminiContent object.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Common/Content/GeminiContent.cs

5.8 Uralstech.UGemini.GeminiContentBlob Class Reference

Raw media bytes.

Static Public Member Functions

- static GeminiContentBlob GetContentBlob (Texture2D image, bool useJPEG=false)

  Converts the given Texture2D to a GeminiContentBlob.

Public Attributes

- GeminiContentType MimeType

  The type of the data.
- string **Data**

  The base64 encoded bytes of data.

5.8.1 Detailed Description

Raw media bytes.

Text should not be sent as raw bytes, use the GeminiContentPart.Text> field.

5.8.2 Member Function Documentation

5.8.2.1 GetContentBlob()

```
static GeminiContentBlob Uralstech.UGemini.GeminiContentBlob.GetContentBlob (
            Texture2D image,
            bool useJPEG = false)  [static]
```

Converts the given Texture2D to a GeminiContentBlob.

Parameters

image	The Texture2D to use.
useJPEG	Should the encoder use JPEG instead of PNG?

Returns

A new GeminiContentBlob object.

5.8.3 Member Data Documentation

5.8.3.1 MimeType

```
GeminiContentType Uralstech.UGemini.GeminiContentBlob.MimeType
```

The type of the data.

You can use EnumExtensions.ContentType(string) to convert string values to their GeminiContentType equivalents, like: `"image/png".ContentType()`

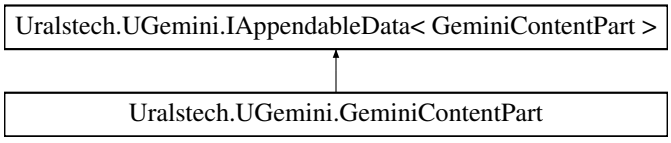
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Common/Content/GeminiContentBlob.cs

5.9 Uralstech.UGemini.GeminiContentPart Class Reference

A datatype containing media that is part of a multi-part Content message. Must only contain one field at a time.

Inheritance diagram for Uralstech.UGemini.GeminiContentPart:



Public Member Functions

- void **Append** (GeminiContentPart data)
- bool IsAppendable (GeminiContentPart data)

  Is the data to be appended compatible with the current GeminiContentPart?

Public Member Functions inherited from Uralstech.UGemini.IAppendableData< GeminiContentPart >

- void Append (T data)

  Appends the data to the current IAppendableData<T>.

Public Attributes

- string **Text** = null

  Inline text.
- GeminiContentBlob **InlineData** = null

  Inline media bytes.
- GeminiFunctionCall FunctionCall = null

  A predicted FunctionCall returned from the model that contains a string representing the FunctionDeclaratio.name with the arguments and their values.
- GeminiFunctionResponse FunctionResponse = null

  The result output of a FunctionCall that contains a string representing the FunctionDeclaration.name and a structured JSON object containing any output from the function is used as context to the model.
- GeminiFileData FileData = null

  URI based data.

Properties

- bool **IsEmpty** `[get]`

  Is there no content stored in this GeminiContentPart?

5.9.1 Detailed Description

A datatype containing media that is part of a multi-part Content message. Must only contain one field at a time.

5.9.2 Member Function Documentation

5.9.2.1 IsAppendable()

```
bool Uralstech.UGemini.GeminiContentPart.IsAppendable (
            GeminiContentPart data)
```

Is the data to be appended compatible with the current GeminiContentPart?

Parameters

data	The data to be appended.

5.9.3 Member Data Documentation

5.9.3.1 FileData

```
GeminiFileData Uralstech.UGemini.GeminiContentPart.FileData = null
```

URI based data.

Only available in the beta API.

5.9.3.2 FunctionCall

```
GeminiFunctionCall Uralstech.UGemini.GeminiContentPart.FunctionCall = null
```

A predicted FunctionCall returned from the model that contains a string representing the FunctionDeclaratio.name with the arguments and their values.

Only available in the beta API.

5.9.3.3 FunctionResponse

```
GeminiFunctionResponse Uralstech.UGemini.GeminiContentPart.FunctionResponse = null
```

The result output of a FunctionCall that contains a string representing the FunctionDeclaration.name and a structured JSON object containing any output from the function is used as context to the model.

Only available in the beta API.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Common/Content/GeminiContentPart.cs

5.10 Uralstech.UGemini.FileAPI.GeminiFile Class Reference

Metadata for a file uploaded to the File API.

Public Attributes

- string **Name**

  The GeminiFile resource name.
- string **DisplayName** = null

  The human-readable display name for the GeminiFile.
- string MimeType

  MIME type of the file.
- long **SizeBytes**

  Size of the file in bytes.
- DateTime **CreateTime**

  The timestamp of when the GeminiFile was created.
- DateTime **UpdateTime**

  The timestamp of when the GeminiFile was last updated.
- DateTime **ExpirationTime**

  The timestamp of when the GeminiFile will be deleted. Only set if the GeminiFile is scheduled to expire.
- string **Sha256Hash**

  SHA-256 hash of the uploaded bytes. A base64-encoded string.
- string **Uri**

  The uri of the GeminiFile.
- GeminiFileState **State**

  Processing state of the GeminiFile.
- GeminiStatus **Status**

  Error status if GeminiFile processing failed.
- GeminiFileVideoMetaData **VideoMetadata**

  Metadata for a video.

5.10.1 Detailed Description

Metadata for a file uploaded to the File API.

5.10.2 Member Data Documentation

5.10.2.1 MimeType

```
string Uralstech.UGemini.FileAPI.GeminiFile.MimeType
```

MIME type of the file.

You can use EnumExtensions.ContentType(string) to convert string values to their GeminiContentType equivalents, like: `"image/png".ContentType()`

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/FileAPI/GeminiFile.cs

5.11 Uralstech.UGemini.GeminiFileData Class Reference

URI based data.

Public Attributes

- string MimeType = null

  The IANA standard MIME type of the source data.
- string **FileUri**

  URI.

5.11.1 Detailed Description

URI based data.

5.11.2 Member Data Documentation

5.11.2.1 MimeType

```
string Uralstech.UGemini.GeminiFileData.MimeType = null
```

The IANA standard MIME type of the source data.

You can use EnumExtensions.MimeType(GeminiContentType) to convert GeminiContentType values to their string MIME type, like: `GeminiContentType.ImagePNG.MimeType()`

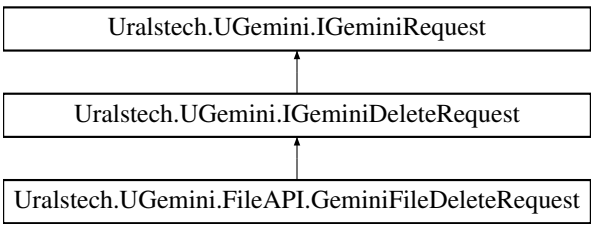
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Common/GeminiFileData.cs

5.12 Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest Class Reference

Requests the deletion of a file.

Inheritance diagram for Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest:



Public Member Functions

- string GetEndpointUri (GeminiRequestMetadata metadata)

  Gets the URI to the API endpoint.

Parameters

metadata	*The metadata of the request to be carried out on the URI.*

Returns

The URI.

- GeminiFileDeleteRequest (string fileId, bool useBetaApi=true)

  Creates a new GeminiFileGetRequest.

Public Attributes

- string **ApiVersion**

  The API version to use.
- string **FileId**

  The ID of the file to delete.

5.12.1 Detailed Description

Requests the deletion of a file.

5.12.2 Constructor & Destructor Documentation

5.12.2.1 GeminiFileDeleteRequest()

```
Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest.GeminiFileDeleteRequest (
            string fileId,
            bool useBetaApi = true)
```

Creates a new GeminiFileGetRequest.

Parameters

fileId	The ID of the file to delete.
useBetaApi	Should the request use the Beta API?

5.12.3 Member Function Documentation

5.12.3.1 GetEndpointUri()

```
string Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest.GetEndpointUri (
            GeminiRequestMetadata metadata)
```

Gets the URI to the API endpoint.

Parameters

metadata	The metadata of the request to be carried out on the URI.

Returns

The URI.

Implements Uralstech.UGemini.IGeminiRequest.

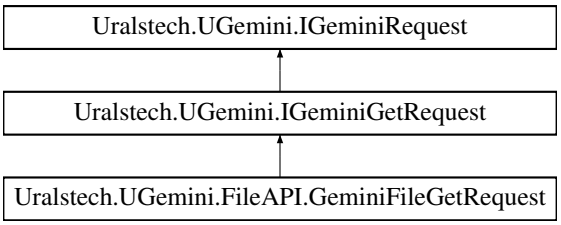
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/FileAPI/SingleRequests/GeminiFile↩ DeleteRequest.cs

5.13 Uralstech.UGemini.FileAPI.GeminiFileGetRequest Class Reference

Requests metadata for an existing file. Return type is GeminiFile.

Inheritance diagram for Uralstech.UGemini.FileAPI.GeminiFileGetRequest:



Public Member Functions

- string GetEndpointUri (GeminiRequestMetadata metadata)

  Gets the URI to the API endpoint.

Parameters

metadata	*The metadata of the request to be carried out on the URI.*

Returns

The URI.

- GeminiFileGetRequest (string fileId, bool useBetaApi=true)

  Creates a new GeminiFileGetRequest.

Public Attributes

- string **ApiVersion**

  The API version to use.

- string **FileId**

  The ID of the file to get.

5.13.1 Detailed Description

Requests metadata for an existing file. Return type is GeminiFile.

5.13.2 Constructor & Destructor Documentation

5.13.2.1 GeminiFileGetRequest()

```
Uralstech.UGemini.FileAPI.GeminiFileGetRequest.GeminiFileGetRequest (
            string fileId,
            bool useBetaApi = true)
```

Creates a new GeminiFileGetRequest.

Parameters

fileId	The ID of the file to get.
useBetaApi	Should the request use the Beta API?

5.13.3 Member Function Documentation

5.13.3.1 GetEndpointUri()

```
string Uralstech.UGemini.FileAPI.GeminiFileGetRequest.GetEndpointUri (
            GeminiRequestMetadata metadata)
```

Gets the URI to the API endpoint.

Parameters

metadata	The metadata of the request to be carried out on the URI.

Returns

The URI.

Implements Uralstech.UGemini.IGeminiRequest.

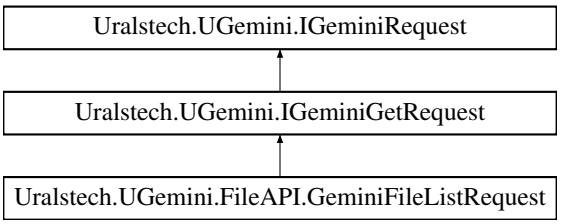
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/FileAPI/SingleRequests/GeminiFileGet↩ Request.cs

5.14 Uralstech.UGemini.FileAPI.GeminiFileListRequest Class Reference

Requests metadata for all existing files. Return type is GeminiFileListResponse.

Inheritance diagram for Uralstech.UGemini.FileAPI.GeminiFileListRequest:



Public Member Functions

- string GetEndpointUri (GeminiRequestMetadata metadata)

  Gets the URI to the API endpoint.

Parameters

metadata	*The metadata of the request to be carried out on the URI.*

Returns

The URI.

- GeminiFileListRequest (bool useBetaApi=true)

  Creates a new GeminiFileGetRequest.

Public Attributes

- string **ApiVersion**

  The API version to use.
- int **MaxResponseFiles** = 10

  Maximum number of Files to return per page. If unspecified, defaults to 10. Maximum pageSize is 100.
- string **PageToken** = string.Empty

  A page token from a previous files.list call.

5.14.1 Detailed Description

Requests metadata for all existing files. Return type is GeminiFileListResponse.

5.14.2 Constructor & Destructor Documentation

5.14.2.1 GeminiFileListRequest()

```
Uralstech.UGemini.FileAPI.GeminiFileListRequest.GeminiFileListRequest (
            bool useBetaApi = true)
```

Creates a new GeminiFileGetRequest.

Parameters

useBetaApi	Should the request use the Beta API?

5.14.3 Member Function Documentation

5.14.3.1 GetEndpointUri()

```
string Uralstech.UGemini.FileAPI.GeminiFileListRequest.GetEndpointUri (
            GeminiRequestMetadata metadata)
```

Gets the URI to the API endpoint.

Parameters

metadata	The metadata of the request to be carried out on the URI.

Returns

The URI.

Implements Uralstech.UGemini.IGeminiRequest.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/FileAPI/FileList/GeminiFileListRequest.cs

5.15 Uralstech.UGemini.FileAPI.GeminiFileListResponse Class Reference

The response for a GeminiFileListRequest call.

Public Attributes

- GeminiFile[ ] **Files**

  The list of files.
- string **NextPageToken**

  A token that can be sent as a GeminiFileListRequest.PageToken into a subsequent GeminiFileListRequest call.

5.15.1 Detailed Description

The response for a GeminiFileListRequest call.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/FileAPI/FileList/GeminiFileListResponse.cs

5.16 Uralstech.UGemini.FileAPI.GeminiFileUploadMetaData Class Reference

Metadata for a GeminiFile to be uploaded.

Public Attributes

- string Name = null

  The GeminiFileUploadRequest resource name. This does not work right now.
- string **DisplayName** = null

  The human-readable display name for the GeminiFileUploadRequest. The display name must be no more than 512 characters in length, including spaces. Example: "Welcome Image".

5.16.1 Detailed Description

Metadata for a GeminiFile to be uploaded.

5.16.2 Member Data Documentation

5.16.2.1 Name

```
string Uralstech.UGemini.FileAPI.GeminiFileUploadMetaData.Name = null
```

The GeminiFileUploadRequest resource name. This does not work right now.

The ID (name excluding the "files/" prefix) can contain up to 40 characters that are lowercase alphanumeric or dashes (-).
The ID cannot start or end with a dash. If the name is empty on create, a unique name will be generated. Example: files/123-456

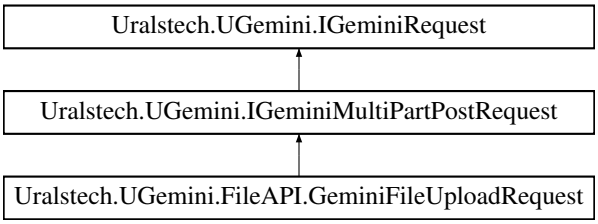
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/FileAPI/FileUpload/GeminiFileUpload↩ MetaData.cs

5.17 Uralstech.UGemini.FileAPI.GeminiFileUploadRequest Class Reference

Uploads a file to the Gemini File API. Response type is GeminiFileUploadResponse.

Inheritance diagram for Uralstech.UGemini.FileAPI.GeminiFileUploadRequest:



Public Member Functions

- string GetEndpointUri (GeminiRequestMetadata metadata)

  Gets the URI to the API endpoint.

Parameters

metadata	*The metadata of the request to be carried out on the URI.*

Returns

The URI.

- GeminiFileUploadRequest (string contentType, bool useBetaApi=true)

  Creates a new GeminiFileUploadRequest.

- string GetUtf8EncodedData (string dataSeperator)

  Converts the request object to a UTF-8 encoded multi-part string.

Parameters

dataSeperator	*The boundary to seperate each part of the data.*

Returns

The string data.

Public Attributes

- GeminiFileUploadMetaData **File**

  Metadata for the GeminiFile to be uploaded.
- string MimeType

  The IANA standard MIME type of the GeminiFileUploadRequest.
- byte[ ] **RawData**

  The raw file data to upload.
- string **ApiVersion**

  The API version to use.

Properties

- string **ContentType** `[get]`

5.17.1 Detailed Description

Uploads a file to the Gemini File API. Response type is GeminiFileUploadResponse.

This feature is currently being worked on and is unstable.

5.17.2 Constructor & Destructor Documentation

5.17.2.1 GeminiFileUploadRequest()

```
Uralstech.UGemini.FileAPI.GeminiFileUploadRequest.GeminiFileUploadRequest (
            string contentType,
            bool useBetaApi = true)
```

Creates a new GeminiFileUploadRequest.

Parameters

contentType	The content type of the data
useBetaApi	Should the request use the Beta API?

5.17.3 Member Function Documentation

5.17.3.1 GetEndpointUri()

```
string Uralstech.UGemini.FileAPI.GeminiFileUploadRequest.GetEndpointUri (
            GeminiRequestMetadata metadata)
```

Gets the URI to the API endpoint.

Parameters

metadata	The metadata of the request to be carried out on the URI.

Returns

The URI.

Implements Uralstech.UGemini.IGeminiRequest.

5.17.3.2 GetUtf8EncodedData()

```
string Uralstech.UGemini.FileAPI.GeminiFileUploadRequest.GetUtf8EncodedData (
            string dataSeperator)
```

Converts the request object to a UTF-8 encoded multi-part string.

Parameters

dataSeperator	The boundary to seperate each part of the data.

Returns

The string data.

Implements Uralstech.UGemini.IGeminiMultiPartPostRequest.

5.17.4 Member Data Documentation

5.17.4.1 MimeType

```
string Uralstech.UGemini.FileAPI.GeminiFileUploadRequest.MimeType
```

The IANA standard MIME type of the GeminiFileUploadRequest.

You can use EnumExtensions.MimeType(GeminiContentType) to convert GeminiContentType values to their string MIME type, like: `GeminiContentType.ImagePNG.MimeType()`

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/FileAPI/FileUpload/GeminiFileUpload↩ Request.cs

5.18 Uralstech.UGemini.FileAPI.GeminiFileUploadResponse Class Reference

Response for a file upload request.

Public Attributes

- GeminiFile **File**

  Metadata for the created file.

5.18.1 Detailed Description

Response for a file upload request.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/FileAPI/FileUpload/GeminiFileUpload↩ Response.cs

5.19 Uralstech.UGemini.FileAPI.GeminiFileVideoMetaData Class Reference

Metadata for a video GeminiFile.

Public Attributes

- TimeSpan **VideoDuration**

  Duration of the video.

5.19.1 Detailed Description

Metadata for a video GeminiFile.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/FileAPI/GeminiFileVideoMetaData.cs

5.20 Uralstech.UGemini.Tools.GeminiFunctionCall Class Reference

A predicted FunctionCall returned from the model that contains a string representing the FunctionDeclaration.name with the arguments and their values.

Public Member Functions

- GeminiFunctionResponse GetResponse (JObject responseJson=null)

  Creates a GeminiFunctionResponse for this function call.

Public Attributes

- string **Name**

  The name of the function to call. Must be a-z, A-Z, 0-9, or contain underscores and dashes, with a maximum length of 63.
- JObject Arguments = null

  Optional. The function parameters and values in JSON object format.

5.20.1 Detailed Description

A predicted FunctionCall returned from the model that contains a string representing the FunctionDeclaration.name with the arguments and their values.

5.20.2 Member Function Documentation

5.20.2.1 GetResponse()

```
GeminiFunctionResponse Uralstech.UGemini.Tools.GeminiFunctionCall.GetResponse (
            JObject responseJson = null)
```

Creates a GeminiFunctionResponse for this function call.

Parameters

responseJson	The JSON response data.

Returns

A new GeminiFunctionResponse object.

5.20.3 Member Data Documentation

5.20.3.1 Arguments

```
JObject Uralstech.UGemini.Tools.GeminiFunctionCall.Arguments = null
```

Optional. The function parameters and values in JSON object format.

See Protocol Buffer `Struct`.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Tools/GeminiFunctionCall.cs

5.21 Uralstech.UGemini.Tools.Declaration.GeminiFunctionCalling↩ Configuration Class Reference

Configuration for specifying function calling behavior.

Public Attributes

- GeminiFunctionCallingMode **Mode** = GeminiFunctionCallingMode.Auto

  Specifies the mode in which function calling should execute. If unspecified, the default value will be set to AUTO.
- string[ ] AllowedFunctionNames = null

  A set of function names that, when provided, limits the functions the model will call.

5.21.1 Detailed Description

Configuration for specifying function calling behavior.

5.21.2 Member Data Documentation

5.21.2.1 AllowedFunctionNames

```
string [] Uralstech.UGemini.Tools.Declaration.GeminiFunctionCallingConfiguration.Allowed↩
FunctionNames = null
```

A set of function names that, when provided, limits the functions the model will call.

This should only be set when Mode is GeminiFunctionCallingMode.Any.
Function names should match [GeminiFunctionDeclaration.Name]. With mode set to GeminiFunctionCallingMode.Any, model will predict a function call from the set of function names provided.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Tools/Declaration/GeminiFunctionCalling↩
Configuration.cs

5.22 Uralstech.UGemini.Tools.Declaration.GeminiFunctionDeclaration Class Reference

Structured representation of a function declaration as defined by the OpenAPI 3.03 specification.
Included in this declaration are the function name and parameters. This FunctionDeclaration is a representation of a block of code that can be used as a Tool by the model and executed by the client.

Public Attributes

- string **Name**

  The name of the function. Must be a-z, A-Z, 0-9, or contain underscores and dashes, with a maximum length of 63.
- string **Description**

  A brief description of the function.
- GeminiSchema **Parameters** = null

  Describes the parameters to this function. Reflects the Open API 3.03 Parameter Object string Key: the name of the parameter.
  Parameter names are case sensitive.
  Schema Value: the Schema defining the type used for the parameter.

5.22.1 Detailed Description

Structured representation of a function declaration as defined by the OpenAPI 3.03 specification. Included in this declaration are the function name and parameters. This FunctionDeclaration is a representation of a block of code that can be used as a Tool by the model and executed by the client.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Tools/Declaration/GeminiFunction↩ Declaration.cs

5.23 Uralstech.UGemini.Tools.GeminiFunctionResponse Class Reference

The result output from a GeminiFunctionCall that contains a string representing the Declaration.GeminiFunctionDeclaration.Name and a structured JSON object containing any output from the function is used as context to the model. This should contain the result of a GeminiFunctionCall made based on model prediction.

Public Attributes

- string **Name**

  The name of the function to call. Must be a-z, A-Z, 0-9, or contain underscores and dashes, with a maximum length of 63.
- GeminiFunctionResponseContent **Response** = null

  The function response data.

5.23.1 Detailed Description

The result output from a GeminiFunctionCall that contains a string representing the Declaration.GeminiFunctionDeclaration.Name and a structured JSON object containing any output from the function is used as context to the model. This should contain the result of a GeminiFunctionCall made based on model prediction.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Tools/GeminiFunctionResponse.cs

5.24 Uralstech.UGemini.Tools.GeminiFunctionResponseContent Class Reference

The response of a Gemini function call. Based on the Protocol Buffer `Struct` type.

Public Attributes

- string **Name**

  The name of the function.
- JObject **ResponseData**

  The actual JSON response data of the function.

5.24.1 Detailed Description

The response of a Gemini function call. Based on the Protocol Buffer `Struct` type.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Tools/GeminiFunctionResponseContent.cs

5.25 Uralstech.UGemini.Chat.GeminiGenerationConfiguration Class Reference

Configuration options for model generation and outputs. Not all parameters may be configurable for every model.

Public Attributes

- string[ ] **StopSequences** = null

  The set of character sequences (up to 5) that will stop output generation. If specified, the API will stop at the first appearance of a stop sequence. The stop sequence will not be included as part of the response.
- GeminiResponseType ResponseMimeType = GeminiResponseType.Unspecified

  Output response type of the generated candidate text.
- GeminiSchema ResponseSchema = null

  Output response schema of the generated candidate text when response mime type can have schema.
- int CandidateCount = 1

  Number of generated responses to return.
- int **MaxOutputTokens** = -1

  The maximum number of tokens to include in a candidate.
- float **Temperature** = -1f

  Controls the randomness of the output. Values can range from 0.0 - 2.0.
- float TopP = -1f

  The maximum cumulative probability of tokens to consider when sampling.
- int TopK = -1

  The maximum number of tokens to consider when sampling.

5.25.1 Detailed Description

Configuration options for model generation and outputs. Not all parameters may be configurable for every model.

5.25.2 Member Data Documentation

5.25.2.1 CandidateCount

```
int Uralstech.UGemini.Chat.GeminiGenerationConfiguration.CandidateCount = 1
```

Number of generated responses to return.

Currently, this value can only be set to 1. If unset, this will default to 1.

5.25.2.2 ResponseMimeType

```
GeminiResponseType Uralstech.UGemini.Chat.GeminiGenerationConfiguration.ResponseMimeType =
GeminiResponseType.Unspecified
```

Output response type of the generated candidate text.

Only available in the beta API.

5.25.2.3 ResponseSchema

```
GeminiSchema Uralstech.UGemini.Chat.GeminiGenerationConfiguration.ResponseSchema = null
```

Output response schema of the generated candidate text when response mime type can have schema.

If set, a compatible GeminiResponseType must also be set. Compatible types: GeminiResponseType.Json↩
: Schema for JSON response.

Only available in the beta API.

5.25.2.4 TopK

```
int Uralstech.UGemini.Chat.GeminiGenerationConfiguration.TopK = -1
```

The maximum number of tokens to consider when sampling.

Models use nucleus sampling or combined Top-k and nucleus sampling. Top-k sampling considers the set of topK most
probable tokens. Models running with nucleus sampling don't allow topK setting.

5.25.2.5 TopP

```
float Uralstech.UGemini.Chat.GeminiGenerationConfiguration.TopP = -1f
```

The maximum cumulative probability of tokens to consider when sampling.

The model uses combined Top-k and nucleus sampling.

Tokens are sorted based on their assigned probabilities so that only the most likely tokens are considered.
Top-k sampling directly limits the maximum number of tokens to consider, while Nucleus sampling limits
number of tokens based on the cumulative probability.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatRequest/GeminiGenerationConfiguration.↩
cs

5.26 Uralstech.UGemini.Chat.GeminiGroundingAttribution Class Reference

Attribution for a source that contributed to an answer.

Public Attributes

- GeminiAttributionSourceId **SourceId**

  Identifier for the source contributing to this attribution.
- GeminiContent **Content**

  Grounding source content that makes up this attribution.

5.26.1 Detailed Description

Attribution for a source that contributed to an answer.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/Attribution/Gemini↩ GroundingAttribution.cs

5.27 Uralstech.UGemini.Chat.GeminiGroundingPassageId Class Reference

Identifier for a part within a GroundingPassage.

Public Attributes

- string **PassageId**

  ID of the passage matching the GenerateAnswerRequest's GeminiAttributionSourceId.GroundingPassage.
- int **PartIndex**

  Index of the part within the GenerateAnswerRequest's GeminiAttributionSourceId.GroundingPassage.

5.27.1 Detailed Description

Identifier for a part within a GroundingPassage.

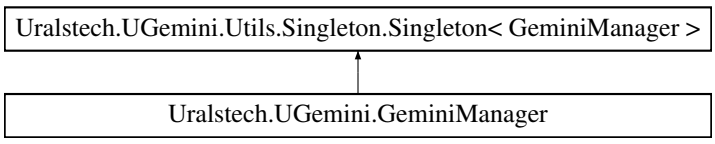
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/Attribution/Gemini↩ GroundingPassageId.cs

5.28 Uralstech.UGemini.GeminiManager Class Reference

The class for accessing the Gemini API!

Inheritance diagram for Uralstech.UGemini.GeminiManager:



Public Types

- enum RequestEndPoint { Chat , CountTokens }

  The request endpoint.

Public Member Functions

- void SetApiKey (string apiKey)

  Sets the Gemini API key.
- async Task< TResponse > Request< TResponse > (IGeminiPostRequest request)

  Computes a request on the Gemini API.
- async Task< TResponse > Request< TResponse > (IGeminiMultiPartPostRequest request)

  Computes a request on the Gemini API.
- async Task< TResponse > Request< TResponse > (IGeminiGetRequest request)

  Computes a request on the Gemini API.
- async Task Request (IGeminiDeleteRequest request)

  Computes a request on the Gemini API.
- async Task< TResponse > Compute< TRequest, TResponse > (TRequest request, RequestEndPoint endpoint, string model=Gemini1_5Flash, bool useBeta=false)

  Computes a request in the Gemini API.

Static Public Attributes

- const string **Gemini1_0ProVision** = "gemini-pro-vision"

  Note: Gemini 1.0 Pro Vision is deprecated. Use 1.5 Flash or 1.5 Pro instead.

  Gemini 1.0 Pro Vision is a performance-optimized multimodal model that can perform visual-related tasks.
  For example, 1.0 Pro Vision can generate image descriptions, identify objects present in images, provide
  information about places or objects present in images, and more.

  Supports image, video and text input.
- const string **Gemini1_0Pro** = "gemini-1.0-pro"

  Gemini 1.0 Pro is an NLP model that handles tasks like multi-turn text and code chat, and code generation.

  Supports text input.
- const string **Gemini1_5Pro** = "gemini-1.5-pro"

  Gemini 1.5 Pro is a mid-size multimodal model that is optimized for a wide-range of reasoning tasks.
  1.5 Pro can process large amounts of data at once, including 2 hours of video, 19 hours of audio,
  codebases with 60,000 lines of code, or 2,000 pages of text.

  Supports audio, image, video and text input.
- const string **Gemini1_5Flash** = "gemini-1.5-flash"

  Gemini 1.5 Flash is a fast and versatile multimodal model for scaling across diverse tasks.

  Supports audio, image, video and text input.

Additional Inherited Members

Properties inherited from Uralstech.UGemini.Utils.Singleton.Singleton< GeminiManager >

- static T **Instance** `[get]`

  The active instance of type T .

5.28.1 Detailed Description

The class for accessing the Gemini API!

5.28.2 Member Enumeration Documentation

5.28.2.1 RequestEndPoint

```
enum Uralstech.UGemini.GeminiManager.RequestEndPoint
```

The request endpoint.

Enumerator

Chat	The chat endpoint.
CountTokens	The token counting endpoint.

5.28.3 Member Function Documentation

5.28.3.1 Compute< TRequest, TResponse >()

```
async Task< TResponse > Uralstech.UGemini.GeminiManager.Compute< TRequest, TResponse > (
            TRequest request,
            RequestEndPoint endpoint,
            string model = Gemini1_5Flash,
            bool useBeta = false)
```

Computes a request in the Gemini API.

Template Parameters

TRequest	The request type (like GeminiChatRequest or GeminiCountRequest). This should correspond with *TResponse* , like: GeminiChatRequest with GeminiChatResponse GeminiCountRequest with GeminiCountResponse

Template Parameters

TResponse	The response type (like GeminiChatResponse or GeminiCountResponse). This should correspond with *TRequest* , like: GeminiChatRequest with GeminiChatResponse GeminiCountRequest with GeminiCountResponse

Parameters

request	The request data.
endpoint	The request endpoint.
model	The model to use.
useBeta	Use the beta API?

Returns

The computed request.

Exceptions

ArgumentException	Thrown if unexpected arguments are encountered.
GeminiRequestException	Thrown when the API request fails.

5.28.3.2 Request()

```
async Task Uralstech.UGemini.GeminiManager.Request (
            IGeminiDeleteRequest request)
```

Computes a request on the Gemini API.

Parameters

request	The request object.

Exceptions

GeminiRequestException	Thrown when the API request fails.

5.28.3.3 Request< TResponse >() [1/3]

```
async Task< TResponse > Uralstech.UGemini.GeminiManager.Request< TResponse > (
            IGeminiGetRequest request)
```

Computes a request on the Gemini API.

Template Parameters

TResponse	The response type. For example, a request of type Chat.GeminiChatRequest corresponds to a response type of Chat.GeminiChatResponse, and a request of type TokenCounting.GeminiTokenCountRequest corresponds to a response of type TokenCounting.GeminiTokenCountResponse.

Parameters

request	The request object.

Exceptions

GeminiRequestException	Thrown when the API request fails.

5.28.3.4 Request< TResponse >() [2/3]

```
async Task< TResponse > Uralstech.UGemini.GeminiManager.Request< TResponse > (
            IGeminiMultiPartPostRequest request)
```

Computes a request on the Gemini API.

Template Parameters

TResponse	The response type. For example, a request of type Chat.GeminiChatRequest corresponds to a response type of Chat.GeminiChatResponse, and a request of type TokenCounting.GeminiTokenCountRequest corresponds to a response of type TokenCounting.GeminiTokenCountResponse.

Parameters

request	The request object.

Returns

The computed response.

Exceptions

GeminiRequestException	Thrown when the API request fails.

5.28.3.5 Request< TResponse >() [3/3]

```
async Task< TResponse > Uralstech.UGemini.GeminiManager.Request< TResponse > (
            IGeminiPostRequest request)
```

Computes a request on the Gemini API.

Template Parameters

TResponse	The response type. For example, a request of type Chat.GeminiChatRequest corresponds to a response type of Chat.GeminiChatResponse, and a request of type TokenCounting.GeminiTokenCountRequest corresponds to a response of type TokenCounting.GeminiTokenCountResponse.

Parameters

request	The request object.

Returns

The computed response.

Exceptions

GeminiRequestException	Thrown when the API request fails.

5.28.3.6 SetApiKey()

```
void Uralstech.UGemini.GeminiManager.SetApiKey (
            string apiKey)
```

Sets the Gemini API key.

Parameters

apiKey	The new API key.

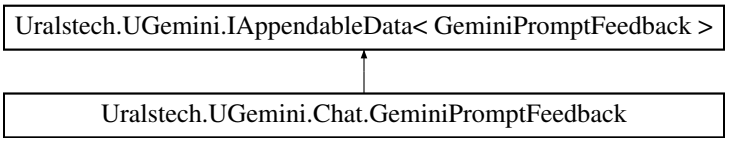
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Managers/GeminiManager.cs

5.29 Uralstech.UGemini.Chat.GeminiPromptFeedback Class Reference

A set of the feedback metadata the prompt specified in GeminiChatResponse.Candidates.

Inheritance diagram for Uralstech.UGemini.Chat.GeminiPromptFeedback:



Public Member Functions

- void **Append** (GeminiPromptFeedback data)

Public Member Functions inherited from Uralstech.UGemini.IAppendableData< GeminiPromptFeedback >

- void Append (T data)

  Appends the data to the current IAppendableData<T>.

Public Attributes

- GeminiBlockReason **BlockReason**

  If set, the prompt was blocked and no candidates are returned. Rephrase your prompt.
- GeminiSafetyRating[ ] **SafetyRatings**

  Ratings for safety of the prompt. There is at most one rating per category.

5.29.1 Detailed Description

A set of the feedback metadata the prompt specified in GeminiChatResponse.Candidates.

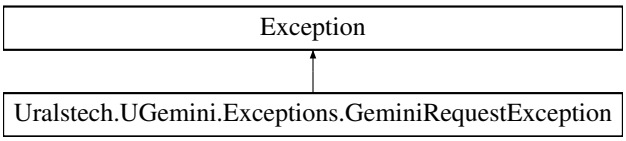
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/GeminiPromptFeedback.cs

5.30 Uralstech.UGemini.Exceptions.GeminiRequestException Class Reference

Thrown when a Gemini API request fails.

Inheritance diagram for Uralstech.UGemini.Exceptions.GeminiRequestException:



Public Attributes

- GeminiManager.RequestEndPoint **RequestEndPoint**

  The endpoint of the failed request.
- Uri **RequestEndpoint**

  The endpoint of the failed request.
- long **RequestErrorCode**

  The response code returned by the request.
- string **RequestError**

  The name of the request's error.
- string **RequestErrorMessage**

  The request's error message.
- string **ApiVersionString**

  The request's API version as a string.
- bool **IsBetaApi**

  Was the request on a beta API?

5.30.1 Detailed Description

Thrown when a Gemini API request fails.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Exceptions/GeminiRequestException.cs

5.31 Uralstech.UGemini.GeminiRequestMetadata Class Reference

Metadata about a computation request.

Public Attributes

- bool **IsStreaming**
  Is the request being streamed?

5.31.1 Detailed Description

Metadata about a computation request.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/GeminiRequestMetadata.cs

5.32 Uralstech.UGemini.Chat.GeminiSafetyRating Class Reference

Safety rating for a piece of content.

Public Attributes

- GeminiSafetyHarmCategory **Category**
  The category for this rating.
- GeminiHarmProbability **Probability**
  The probability of harm for this content.
- bool **Blocked**
  Was this content blocked because of this rating?

5.32.1 Detailed Description

Safety rating for a piece of content.

The safety rating contains the category of harm and the harm probability level in that category for a piece of content is classified for safety across a number of harm categories and the probability of the harm classification is included here.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/Safety/GeminiSafety↩ Rating.cs

5.33 Uralstech.UGemini.Chat.GeminiSafetySettings Class Reference

Safety setting, affecting the safety-blocking behavior.

Public Attributes

- GeminiSafetyHarmCategory **Category**

  The category for this setting.
- GeminiSafetyHarmBlockThreshold **Threshold**

  Controls the probability threshold at which harm is blocked.

5.33.1 Detailed Description

Safety setting, affecting the safety-blocking behavior.

Passing a safety setting for a category changes the allowed probability that content is blocked.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatRequest/GeminiSafetySettings.cs

5.34 Uralstech.UGemini.Schema.GeminiSchema Class Reference

The Schema object allows the definition of input and output data types. These types can be objects, but also primitives and arrays. Represents a select subset of an OpenAPI 3.0 schema object.

Public Attributes

- GeminiSchemaDataType **Type**

  Data type.
- GeminiSchemaDataFormat **Format** = GeminiSchemaDataFormat.Unspecified

  The format of the data. This is used only for primitive datatypes.
- string **Description** = null

  A brief description of the parameter. This could contain examples of use. Parameter description may be formatted as Markdown.
- bool? **Nullable** = null

  Indicates if the value may be null.
- string[ ] Enum = null

  Possible values of the element of GeminiSchemaDataType.String with enum format.
- Dictionary< string, GeminiSchema > **Properties** = null

  The properties of GeminiSchemaDataType.Object.
- string[ ] **Required** = null

  Required properties of GeminiSchemaDataType.Object.
- GeminiSchema **Items** = null

  Schema of the elements of GeminiSchemaDataType.Array.

5.34.1 Detailed Description

The Schema object allows the definition of input and output data types. These types can be objects, but also primitives and arrays. Represents a select subset of an OpenAPI 3.0 schema object.

5.34.2 Member Data Documentation

5.34.2.1 Enum

```
string [] Uralstech.UGemini.Schema.GeminiSchema.Enum = null
```

Possible values of the element of GeminiSchemaDataType.String with enum format.

For example we can define an Enum Direction as:

```
GeminiSchema enumSchema = new()
{
    Type = GeminiSchemaDataType.String,
    Format = GeminiSchemaDataFormat.Enum,
    Enum = new string[]
    {
        "EAST",
        "NORTH",
        "SOUTH",
        "WEST",
    },
};
```

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Schema/GeminiSchema.cs

5.35 Uralstech.UGemini.Chat.GeminiSemanticRetrieverChunk Class Reference

Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequest using Semantic↩ RetrieverConfig.

Public Attributes

- string **Source**

  Name of the source matching the request's SemanticRetrieverConfig.source. Example: corpora/123 or corpora/123/documents/abc.
- string **Chunk**

  Name of the Chunk containing the attributed text. Example: corpora/123/documents/abc/chunks/xyz.

5.35.1 Detailed Description

Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequest using Semantic↩ RetrieverConfig.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/Attribution/Gemini↩ SemanticRetrieverChunk.cs

5.36 Uralstech.UGemini.Status.GeminiStatus Class Reference

The GeminiStatus type defines a logical error model that is suitable for different programming environments, including REST APIs and RPC APIs. It is used by gRPC.

Public Attributes

- int **Code**

  The status code, which should be an enum value of google.rpc.Code.
- string Message

  A developer-facing error message, which should be in English.
- GeminiStatusDetails[ ] **Details**

  A list of messages that carry the error details. There is a common set of message types for APIs to use.

5.36.1 Detailed Description

The GeminiStatus type defines a logical error model that is suitable for different programming environments, including REST APIs and RPC APIs. It is used by gRPC.

Each GeminiStatus message contains three pieces of data: error code, error message, and error details.

5.36.2 Member Data Documentation

5.36.2.1 Message

```
string Uralstech.UGemini.Status.GeminiStatus.Message
```

A developer-facing error message, which should be in English.

Any user-facing error message should be localized and sent in the google.rpc.Status.details field, or localized by the client.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Common/Status/GeminiStatus.cs

5.37 Uralstech.UGemini.Status.GeminiStatusDetails Class Reference

An object containing fields of an arbitrary type.

Public Attributes

- string **Type**

  Contains a URI identifying the type.
- Dictionary< string, JToken > **Data**

  The actual details of the GeminiStatusDetails object.

5.37.1 Detailed Description

An object containing fields of an arbitrary type.

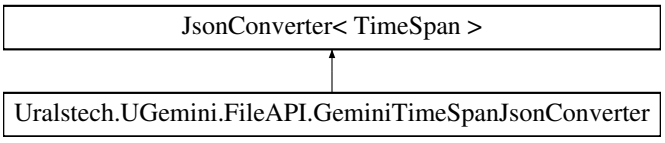
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Common/Status/GeminiStatusDetails.cs

5.38 Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter Class Reference

Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan.

Inheritance diagram for Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter:



Public Member Functions

- override TimeSpan **ReadJson** (JsonReader reader, Type objectType, TimeSpan existingValue, bool has↩ ExistingValue, JsonSerializer serializer)

  />
- override void **WriteJson** (JsonWriter writer, TimeSpan value, JsonSerializer serializer)

  />

5.38.1 Detailed Description

Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan.

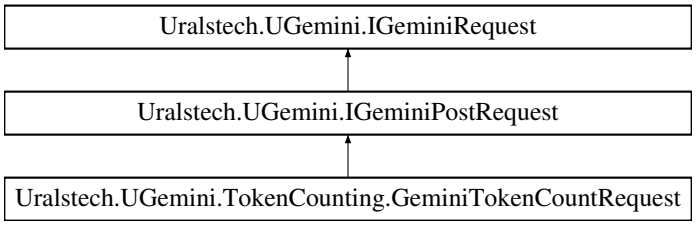
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/FileAPI/GeminiTimeSpanJsonConverter.cs

5.39 Uralstech.UGemini.TokenCounting.GeminiTokenCountRequest Class Reference

Request to count tokens in given content.

Inheritance diagram for Uralstech.UGemini.TokenCounting.GeminiTokenCountRequest:



Public Member Functions

- string GetEndpointUri (GeminiRequestMetadata metadata)

  Gets the URI to the API endpoint.

Parameters

metadata	*The metadata of the request to be carried out on the URI.*

Returns

The URI.

- GeminiTokenCountRequest (string model=GeminiManager.Gemini1_5Flash, bool useBetaApi=false)

  Creates a new GeminiTokenCountRequest.
- string GetUtf8EncodedData ()

  Converts the request object to a UTF-8 encoded string.

  Returns

  The string data.

Public Attributes

- GeminiContent[ ] **Contents** = null

  The input given to the model as a prompt. This field is ignored when CompleteRequest is set.
- GeminiChatRequest **CompleteRequest** = null

  The overall input given to the model. CountTokens will count prompt, function calling, etc.
- string **Model**

  The model to use.
- string **ApiVersion**

  The API version to use.

Properties

- string ContentType `[get]`

  The MIME type of the request content.

Properties inherited from Uralstech.UGemini.IGeminiPostRequest

5.39.1 Detailed Description

Request to count tokens in given content.

5.39.2 Constructor & Destructor Documentation

5.39.2.1 GeminiTokenCountRequest()

```
Uralstech.UGemini.TokenCounting.GeminiTokenCountRequest.GeminiTokenCountRequest (
            string model = GeminiManager::Gemini1_5Flash,
            bool useBetaApi = false)
```

Creates a new GeminiTokenCountRequest.

Parameters

model	The model to use.
useBetaApi	Should the request use the Beta API?

5.39.3 Member Function Documentation

5.39.3.1 GetEndpointUri()

```
string Uralstech.UGemini.TokenCounting.GeminiTokenCountRequest.GetEndpointUri (
            GeminiRequestMetadata metadata)
```

Gets the URI to the API endpoint.

Parameters

metadata	The metadata of the request to be carried out on the URI.

Returns

The URI.

Implements Uralstech.UGemini.IGeminiRequest.

5.39.3.2 GetUtf8EncodedData()

```
string Uralstech.UGemini.TokenCounting.GeminiTokenCountRequest.GetUtf8EncodedData ()
```

Converts the request object to a UTF-8 encoded string.

Returns

The string data.

Implements Uralstech.UGemini.IGeminiPostRequest.

5.39.4 Property Documentation

5.39.4.1 ContentType

```
string Uralstech.UGemini.TokenCounting.GeminiTokenCountRequest.ContentType  [get]
```

The MIME type of the request content.

Implements Uralstech.UGemini.IGeminiPostRequest.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/TokenCountRequest/GeminiTokenCount↩ Request.cs

5.40 Uralstech.UGemini.TokenCounting.GeminiTokenCountResponse Class Reference

A response from CountTokens.

Public Attributes

- int TotalTokens

  The number of tokens that the model tokenizes the prompt into.

5.40.1 Detailed Description

A response from CountTokens.

5.40.2 Member Data Documentation

5.40.2.1 TotalTokens

```
int Uralstech.UGemini.TokenCounting.GeminiTokenCountResponse.TotalTokens
```

The number of tokens that the model tokenizes the prompt into.

Always non-negative. When cachedContent is set, this is still the total effective prompt size.I.e.this includes the number of tokens in the cached content.

Cached content is not supported in this package.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/TokenCountResponse/GeminiToken↩ CountResponse.cs

5.41 Uralstech.UGemini.Tools.Declaration.GeminiTool Class Reference

Tool details that the model may use to generate response.

Public Attributes

- GeminiFunctionDeclaration[ ] FunctionDeclarations = null

  A list of FunctionDeclarations available to the model that can be used for function calling.

5.41.1 Detailed Description

Tool details that the model may use to generate response.

A Tool is a piece of code that enables the system to interact with external systems
to perform an action, or set of actions, outside of knowledge and scope of the model.

5.41.2 Member Data Documentation

5.41.2.1 FunctionDeclarations

```
GeminiFunctionDeclaration [] Uralstech.UGemini.Tools.Declaration.GeminiTool.FunctionDeclarations
= null
```

A list of FunctionDeclarations available to the model that can be used for function calling.

The model or system does not execute the function. Instead the defined function may be returned as
a [GeminiFunctionCall][GeminiContent.GeminiContentPart.FunctionCall] with arguments to the client
side for execution. The model may decide to call a subset of these functions by populating
[GeminiFunctionCall][GeminiContent.GeminiContentPart.FunctionCall] in the response.
The next conversation turn may contain a [GeminiFunctionResponse][GeminiContent.GeminiContentPart.FunctionResponse]
with the [GeminiContent.Role] GeminiRole.ToolResponse generation context for the next model turn.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Tools/Declaration/GeminiTool.cs

5.42 Uralstech.UGemini.Tools.Declaration.GeminiToolConfiguration Class Reference

The Tool configuration containing parameters for specifying Tool use in the request.

Static Public Member Functions

- static GeminiToolConfiguration GetConfiguration (GeminiFunctionCallingMode callingMode, string[] allowedFunctions=null)

  Creates a new GeminiToolConfiguration.

Public Attributes

- GeminiFunctionCallingConfiguration **FunctionCallingConfig** = null

  Function calling config.

5.42.1 Detailed Description

The Tool configuration containing parameters for specifying Tool use in the request.

5.42.2 Member Function Documentation

5.42.2.1 GetConfiguration()

```
static GeminiToolConfiguration Uralstech.UGemini.Tools.Declaration.GeminiToolConfiguration.↩
GetConfiguration (
            GeminiFunctionCallingMode callingMode,
            string[] allowedFunctions = null)  [static]
```

Creates a new GeminiToolConfiguration.

Parameters

callingMode	Specifies the mode in which function calling should execute.
allowedFunctions	A set of function names that, when provided, limits the functions the model will call.

Returns

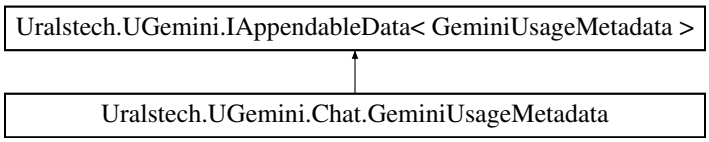
The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Tools/Declaration/GeminiToolConfiguration.↩cs

5.43 Uralstech.UGemini.Chat.GeminiUsageMetadata Class Reference

Metadata on the generation request's token usage.

Inheritance diagram for Uralstech.UGemini.Chat.GeminiUsageMetadata:



Public Member Functions

- void **Append** (GeminiUsageMetadata data)

Public Member Functions inherited from Uralstech.UGemini.IAppendableData< GeminiUsageMetadata >

- void Append (T data)

  Appends the data to the current IAppendableData<T>.

Public Attributes

- int PromptTokenCount

  Number of tokens in the prompt. When cachedContent is set, this is still the total effective prompt size. I.e. this includes the number of tokens in the cached content.
- int **CachedContentTokenCount**

  Number of tokens in the cached part of the prompt, i.e. in the cached content.
- int **CandidatesTokenCount**

  Total number of tokens across the generated candidates.
- int **TotalTokenCount**

  Total token count for the generation request (prompt + candidates).

5.43.1 Detailed Description

Metadata on the generation request's token usage.

5.43.2 Member Data Documentation

5.43.2.1 PromptTokenCount

```
int Uralstech.UGemini.Chat.GeminiUsageMetadata.PromptTokenCount
```

Number of tokens in the prompt. When cachedContent is set, this is still the total effective prompt size. I.e. this includes the number of tokens in the cached content.

Cached content is not supported in this package.

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/ChatResponse/GeminiUsageMetadata.cs

5.44 Uralstech.UGemini.IAppendableData< T > Interface Template Reference

An interface for data that is to be appended to at runtime.

Public Member Functions

- void Append (T data)

  Appends the data to the current IAppendableData<T>.

5.44.1 Detailed Description

An interface for data that is to be appended to at runtime.

Template Parameters

T	The type that can be appended to the IAppendableData<T>.

5.44.2 Member Function Documentation

5.44.2.1 Append()

```
void Uralstech.UGemini.IAppendableData< T >.Append (
            T data)
```

Appends the *data* to the current IAppendableData<T>.

Parameters

data	The data to append.

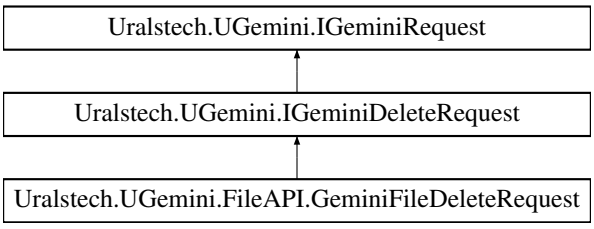
The documentation for this interface was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Interfaces/IAppendableData.cs

5.45 Uralstech.UGemini.IGeminiDeleteRequest Interface Reference

All Gemini API DELETE requests must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiDeleteRequest:



Additional Inherited Members

Public Member Functions inherited from Uralstech.UGemini.IGeminiRequest

- string GetEndpointUri (GeminiRequestMetadata metadata)

  Gets the URI to the API endpoint.

5.45.1 Detailed Description

All Gemini API DELETE requests must inherit from this interface.

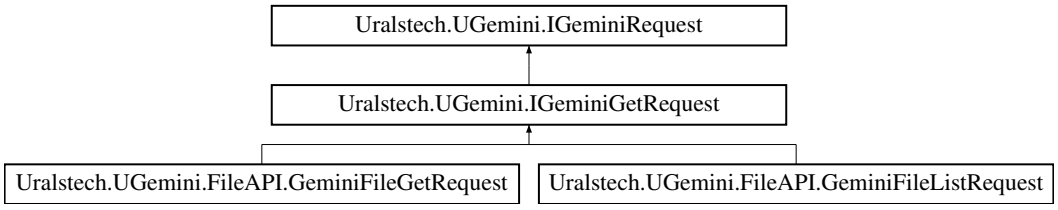
The documentation for this interface was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiDeleteRequest.cs

5.46 Uralstech.UGemini.IGeminiGetRequest Interface Reference

All Gemini API GET requests must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiGetRequest:



Additional Inherited Members

Public Member Functions inherited from Uralstech.UGemini.IGeminiRequest

- string GetEndpointUri (GeminiRequestMetadata metadata)

  Gets the URI to the API endpoint.

5.46.1 Detailed Description

All Gemini API GET requests must inherit from this interface.

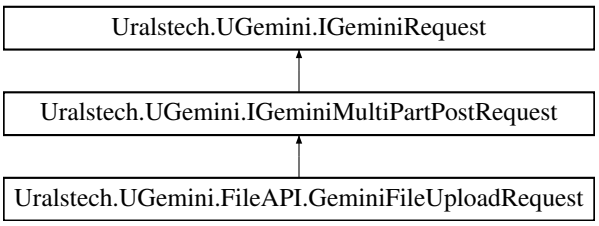
The documentation for this interface was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiGetRequest.cs

5.47 Uralstech.UGemini.IGeminiMultiPartPostRequest Interface Reference

All Gemini API POST requests with multi-part data must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiMultiPartPostRequest:



Public Member Functions

- string GetUtf8EncodedData (string dataSeperator)
  Converts the request object to a UTF-8 encoded multi-part string.

Public Member Functions inherited from Uralstech.UGemini.IGeminiRequest

- string GetEndpointUri (GeminiRequestMetadata metadata)
  Gets the URI to the API endpoint.

5.47.1 Detailed Description

All Gemini API POST requests with multi-part data must inherit from this interface.

5.47.2 Member Function Documentation

5.47.2.1 GetUtf8EncodedData()

```
string Uralstech.UGemini.IGeminiMultiPartPostRequest.GetUtf8EncodedData (
            string dataSeperator)
```

Converts the request object to a UTF-8 encoded multi-part string.

Parameters

dataSeperator	The boundary to seperate each part of the data.

Returns

The string data.

Implemented in Uralstech.UGemini.FileAPI.GeminiFileUploadRequest.

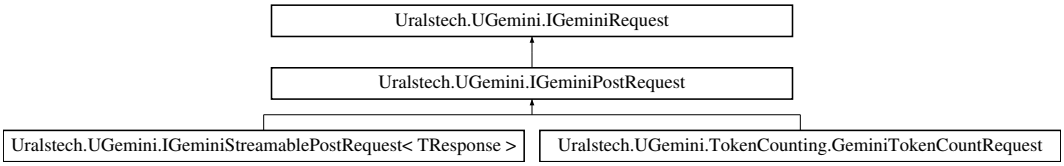
The documentation for this interface was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiMultiPartPostRequest.cs

5.48 Uralstech.UGemini.IGeminiPostRequest Interface Reference

All Gemini API POST requests must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiPostRequest:



Public Member Functions

- string GetUtf8EncodedData ()

  Converts the request object to a UTF-8 encoded string.

Public Member Functions inherited from Uralstech.UGemini.IGeminiRequest

- string GetEndpointUri (GeminiRequestMetadata metadata)

  Gets the URI to the API endpoint.

Properties

- string ContentType `[get]`

  The MIME type of the request content.

5.48.1 Detailed Description

All Gemini API POST requests must inherit from this interface.

5.48.2 Member Function Documentation

5.48.2.1 GetUtf8EncodedData()

```
string Uralstech.UGemini.IGeminiPostRequest.GetUtf8EncodedData ()
```

Converts the request object to a UTF-8 encoded string.

Returns

The string data.

Implemented in Uralstech.UGemini.TokenCounting.GeminiTokenCountRequest.

5.48.3 Property Documentation

5.48.3.1 ContentType

```
string Uralstech.UGemini.IGeminiPostRequest.ContentType  [get]
```

The MIME type of the request content.

Implemented in Uralstech.UGemini.TokenCounting.GeminiTokenCountRequest.

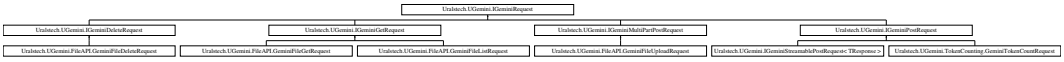
The documentation for this interface was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiPostRequest.cs

5.49 Uralstech.UGemini.IGeminiRequest Interface Reference

All Gemini API requests must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiRequest:



Public Member Functions

- string GetEndpointUri (GeminiRequestMetadata metadata)
  Gets the URI to the API endpoint.

5.49.1 Detailed Description

All Gemini API requests must inherit from this interface.

5.49.2 Member Function Documentation

5.49.2.1 GetEndpointUri()

```
string Uralstech.UGemini.IGeminiRequest.GetEndpointUri (
            GeminiRequestMetadata metadata)
```

Gets the URI to the API endpoint.

Parameters

metadata	The metadata of the request to be carried out on the URI.

Returns

The URI.

Implemented in Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest, Uralstech.UGemini.FileAPI.GeminiFileGetRequest, Uralstech.UGemini.FileAPI.GeminiFileListRequest, Uralstech.UGemini.FileAPI.GeminiFileUploadRequest, and Uralstech.UGemini.TokenCounting.GeminiTokenCountRequest.

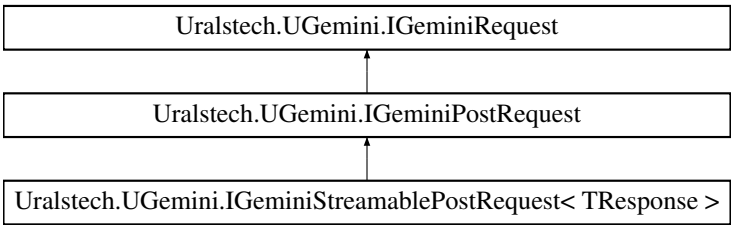
The documentation for this interface was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiRequest.cs

5.50 Uralstech.UGemini.IGeminiStreamablePostRequest< TResponse > Interface Template Reference

All streamed Gemini API POST requests must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiStreamablePostRequest< TResponse >:



Public Member Functions

- Task ProcessStreamedData (List< JToken > allEvents, JToken lastEvent)

  Callback to process Server Sent Events (SSEs).

Public Member Functions inherited from Uralstech.UGemini.IGeminiPostRequest

- string GetUtf8EncodedData ()

  Converts the request object to a UTF-8 encoded string.

Public Member Functions inherited from Uralstech.UGemini.IGeminiRequest

- string GetEndpointUri (GeminiRequestMetadata metadata)

  Gets the URI to the API endpoint.

Properties

- TResponse **StreamedResponse** `[get]`

  The response being streamed.

Properties inherited from Uralstech.UGemini.IGeminiPostRequest

- string ContentType `[get]`

  The MIME type of the request content.

5.50.1 Detailed Description

All streamed Gemini API POST requests must inherit from this interface.

Template Parameters

TResponse	The streamed response type.

Type Constraints

TResponse **:** ***IAppendableData*<*TResponse*>**

5.50.2 Member Function Documentation

5.50.2.1 ProcessStreamedData()

```
Task Uralstech.UGemini.IGeminiStreamablePostRequest< TResponse >.ProcessStreamedData (
            List< JToken > allEvents,
            JToken lastEvent)
```

Callback to process Server Sent Events (SSEs).

Parameters

allEvents	All previously sent SSEs.
lastEvent	The latest SSE.

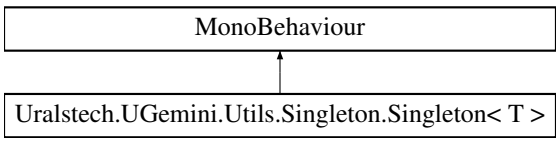
The documentation for this interface was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiStreamablePost↩ Request.cs

5.51 Uralstech.UGemini.Utils.Singleton.Singleton< T > Class Template Reference

Utility class to make inheriting types singletons.

Inheritance diagram for Uralstech.UGemini.Utils.Singleton.Singleton< T >:



Properties

- static T **Instance** `[get]`

  The active instance of type T .

5.51.1 Detailed Description

Utility class to make inheriting types singletons.

Template Parameters

T	The type to be made a singleton.

Type Constraints

T* : *Component

The documentation for this class was generated from the following file:

- UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Utils/Singleton.cs

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