Trigger the intent from non-verbal signals

Events allow you to invoke an intent based on a non-verbal signal, such as a button click, or the start of a new conversation with a bot. Events can be used by external services to trigger Dialogflow intents, for example the Google Assistant's built-in intents.

Extract the action and parameters

Parameters are specific values extracted from a user's request when entities are matched. The values captured by parameters can be used in fulfillment, or in building a response. If you mark parameters as required, Dialogflow will prompt the user if their values were not extracted from their initial request.

Execute and respond to the user

Respond to your users with a simple message, or build custom rich messages for the integrations you support

TODO – Java API V2 Analysis:

<http://googleapis.github.io/google-cloud-dotnet/docs/Google.Cloud.Dialogflow.V2/api/Google.Cloud.Dialogflow.V2.SessionsClient.html>

* Create confluence with main methods and put pros and cons:

gRPC has more options for sure, then REST

* Authentication and scalation will be in a Configuration Service, and streaming JSON files per customer, or customer can specify it local, client will have this configuration:  
  <https://dialogflow.com/docs/reference/v2-auth-setup#curl>
* Create a very simple REST API on projects and using   
  Notes:

AllRequiredParamsPresent -> All entities are filled

OutputContexts -> Context of conversation  
SentimentAnalysisResult -> Sentiments analysis

WebhookPayload and WebhookSource -> KB links

Automatic Action Handlers (configuration services):  
**##[Basic idea here – like in vxml JSON]##**

--> From intent to service

--> Mapping from Entities to Objects (JSON)

--> All configurable in yml files and using reflection

Example:

intent: Name of the intent

confidence filter: 0.798749

serviceConfirmation: The description of the confirmation (the agent will ask, and if user confirms, then call)

url: The url to be called

method: POST (tipically) or GET if it is a link

baseDTO: br.com.mypackage.MyDTO or URL (Optional)

paramMapping: {entityNameInGoogle: baseDTO.attribute.attribute, anotherEntity: baseDTO.attribute}

shouldTerminateBot: true or false (terminates conversation)

V2--> Can call methods, vxmls or other actions from intents

ConfigurationServices (more):

* Retrieve secure JSON Keys, and multi-tenant
* Retrieve cliente configuration: timeout and session: new or reuse
* Retrieve other configuration as finishing the interaction
* Retrieve intents used for escalation
* Just first time call and then, loaded in memory, if direrent instance, it calls again the configuration and load it for the client-nlu-id

API Analisys

EST Resource: projects.agent

Resource

There is no persistent data associated with this resource.

| Methods | |
| --- | --- |
| [export](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent/export) | Exports the specified agent to a ZIP file. |
| [getFulfillment](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent/getFulfillment) | Retrieves the fulfillment. |
| [getValidationResult](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent/getValidationResult) | Gets agent validation result. |
| [import](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent/import) | Imports the specified agent from a ZIP file. |
| [restore](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent/restore) | Restores the specified agent from a ZIP file. |
| [search](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent/search) | Returns the list of agents. |
| [train](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent/train) | Trains the specified agent. |
| [updateFulfillment](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent/updateFulfillment) | Updates the fulfillment |

## Resource: Intent

Represents an intent. Intents convert a number of user expressions or patterns into an action. An action is an extraction of a user command or sentence semantics.

| Methods | |
| --- | --- |
| [batchDelete](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.intents/batchDelete) | Deletes intents in the specified agent. |
| [batchUpdate](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.intents/batchUpdate) | Updates/Creates multiple intents in the specified agent. |
| [create](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.intents/create) | Creates an intent in the specified agent. |
| [delete](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.intents/delete) | Deletes the specified intent and its direct or indirect followup intents. |
| [get](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.intents/get) | Retrieves the specified intent. |
| [list](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.intents/list) | Returns the list of all intents in the specified agent. |
| [patch](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.intents/patch) | Updates the specified intent. |

# REST Resource: projects.agent.entityTypes

Resource: EntityType

Represents an entity type. Entity types serve as a tool for extracting parameter values from natural language queries.

| JSON representation | |
| --- | --- |
| {  "name": string,  "displayName": string,  "kind": enum ([Kind](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.entityTypes#Kind)),  "autoExpansionMode": enum ([AutoExpansionMode](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.entityTypes#AutoExpansionMode)),  "entities": [  {  object ([Entity](https://cloud.google.com/dialogflow/docs/reference/rest/v2/Entity))  }  ],  "enableFuzzyExtraction": boolean  } |  |
| Fields | |
| name | string  The unique identifier of the entity type. Required for [EntityTypes.UpdateEntityType](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.entityTypes/patch#google.cloud.dialogflow.v2.EntityTypes.UpdateEntityType) and [EntityTypes.BatchUpdateEntityTypes](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.entityTypes/batchUpdate#google.cloud.dialogflow.v2.EntityTypes.BatchUpdateEntityTypes) methods. format: projects/<Project ID>/agent/entityTypes/<Entity type ID>. |
| displayName | string  Required. The name of the entity type. |
| kind | enum ([Kind](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.entityTypes#Kind))  Required. Indicates the kind of entity type. |
| autoExpansionMode | enum ([AutoExpansionMode](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.entityTypes#AutoExpansionMode))  Optional. Indicates whether the entity type can be automatically expanded. |
| entities[] | object ([Entity](https://cloud.google.com/dialogflow/docs/reference/rest/v2/Entity))  Optional. The collection of entity entries associated with the entity type. |
| enableFuzzyExtraction | boolean  Optional. Enables fuzzy entity extraction during classification. |

Kind

Represents kinds of entities.

| Enums | |
| --- | --- |
| KIND\_UNSPECIFIED | Not specified. This value should be never used. |
| KIND\_MAP | Map entity types allow mapping of a group of synonyms to a reference value. |
| KIND\_LIST | List entity types contain a set of entries that do not map to reference values. However, list entity types can contain references to other entity types (with or without aliases). |
| KIND\_REGEXP | Regexp entity types allow to specify regular expressions in entries values. |

# REST Resource: projects.agent.sessions

Resource

There is no persistent data associated with this resource.

| Methods | |
| --- | --- |
| [deleteContexts](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.sessions/deleteContexts) | Deletes all active contexts in the specified session. |
| [detectIntent](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.sessions/detectIntent) | Processes a natural language query and returns structured, actionable data as a result. |

# TODO (Explain): <https://cloud.google.com/dialogflow/docs/reference/rest/v2/DetectIntentResponse>

# <https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.intents#Intent>

# Curiosity:

# <https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.intents#ResponseMediaObject>REST Resource: projects.agent.sessions.entityTypes

Resource: SessionEntityType

Represents a session entity type.

Extends or replaces a custom entity type at the user session level (we refer to the entity types defined at the agent level as "custom entity types").

Note: session entity types apply to all queries, regardless of the language.

| JSON representation | |
| --- | --- |
| {  "name": string,  "entityOverrideMode": enum ([EntityOverrideMode](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.environments.users.sessions.entityTypes#SessionEntityType.EntityOverrideMode)),  "entities": [  {  object ([Entity](https://cloud.google.com/dialogflow/docs/reference/rest/v2/Entity))  }  ]  } |  |
| Fields | |
| name | string  Required. The unique identifier of this session entity type. format: projects/<Project ID>/agent/sessions/<Session ID>/entityTypes/<Entity type display name>, or projects/<Project ID>/agent/environments/<Environment ID>/users/<User ID>/sessions/<Session ID>/entityTypes/<Entity type display name>. If Environment ID is not specified, we assume default 'draft' environment. If User ID is not specified, we assume default '-' user.  <Entity type display name> must be the display name of an existing entity type in the same agent that will be overridden or supplemented. |
| entityOverrideMode | enum ([EntityOverrideMode](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.environments.users.sessions.entityTypes#SessionEntityType.EntityOverrideMode))  Required. Indicates whether the additional data should override or supplement the custom entity type definition. |
| entities[] | object ([Entity](https://cloud.google.com/dialogflow/docs/reference/rest/v2/Entity))  Required. The collection of entities associated with this session entity type. |

| Methods | |
| --- | --- |
| [create](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.sessions.entityTypes/create) | Creates a session entity type. |
| [delete](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.sessions.entityTypes/delete) | Deletes the specified session entity type. |
| [get](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.sessions.entityTypes/get) | Retrieves the specified session entity type. |
| [list](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.sessions.entityTypes/list) | Returns the list of all session entity types in the specified session. |
| [patch](https://cloud.google.com/dialogflow/docs/reference/rest/v2/projects.agent.sessions.entityTypes/patch) | Updates the specified session entity type. |