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# NLPENGINE Documentation

*Release 1.0*

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This microservice is intended to extract structured information from raw text, to identify intents and entities for KBS bot.

This microservice requires to be populated with information of Agents and their Models, as follows.

**class** database.**Agent** (*\*\*kwargs*)

An Agent refers to the main o domain or purpose of the chatbot.

**Attributes:**

**param @id** Id to populate the database.

**param @name** This name must be unique to identify the Agent.

**class** database.**Model** (*\*\*kwargs*)

A Model refers to every model trained with the tool fasttext. These Models are specialized in identifying intents or a certain type of entity.

**Attributes:**

**param @id** Used to populate the database

**param @name** Unique to identify the Agent

**param @url** Url to obtain model

**param @entity\_name** Name used to represent the entity type

**param @model\_type** If model is for entities or intents

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**Todo:** When the model is not found, make this class to download model automatically.

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Check also th API description here:



# CHAPTER 1

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## APIS

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Here we have the different views of the app.





## CHAPTER 2

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### NLP\_MAIN

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NLP is the main class to encapsulate the fasttext models.

Check also the TODO list for this project:

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**Todo:** When the model is not found, make this class to download model automatically.

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(The [original entry](#) is located in `/home/docs/checkouts/readthedocs.org/user_builds/cb-nlp-engine-ms/checkouts/latest/kbsbot/nlpengine/database.py:docstring of database.Model`, line 15.)

This project is part of the architecture described in: Herrera, Andre & Yaguachi, Lady & Piedra, Nelson. (2019). Building Conversational Interface for Customer Support Applied to Open Campus an Open Online Course Provider. 11-13. 10.1109/ICALT.2019.00011.



## A

Agent (*class in database*), 1

## M

Model (*class in database*), 1