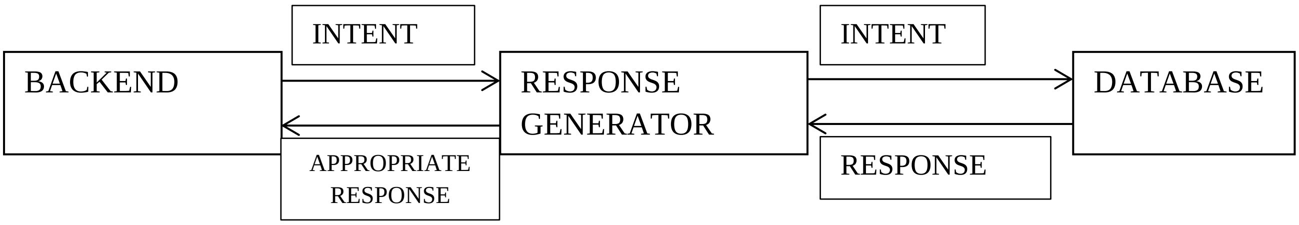
RESPONSE GENERATOR MODULE DOCUMENTATION

Purpose of the module:

The Response Generator module is responsible for retrieving response from the database based upon the intent that the back-end provides.

Structure:



Languages:

Python- Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together.

SQL- SQL is Structured Query Language, which is a computer language for storing, manipulating and retrieving data stored in a relational database

Tools: DJANGO

Working of the module:

Here, the intent is one of the questions that are pre-defined in the database and there is a corresponding response to each of the questions in the database.

The response generator is basically a function that takes intent (that is classified by NLP engine) and question that the user has asked as arguments.
Since we are using DJango framework, database is already connected to the framework. So we just need to import that "connection".

Once we import connection from django.db, we can search anything in the database by the help of "cursor".

If the intent is equal to -1, that means NLP engine wasn't able to match the user asked query to any of the pre-defined question with sufficient confidence. So we would upload such questions in another table for admin knowledge and give user the response "Sorry, cannot understand the question from provided information."

If the intent is not equal to -1,we try to match the intent with all the pre-defined questions in the database. If the intent matches to any of the question, corresponding answer is stored.
Now the cursor contains the response that is retrieved. We need to traverse the cursor(using for loop) to get the response.
Now the response isn’t in the string format so we change it into string format and return it back to the back-end.

Deliverable:

Appropriate response to user query returned to back-end