LINGUISTIC CHALLENGE SOLUTION

TASK 1:

```
#JSGF V1.0 utf-8en;
grammar music_play;
public <music_play>=[can you|i want to|play me](put on | play |listen to|by )(
<artist>|<song>|<genre>|<album>)[music];

<artist>= beatles |radio head |cake |pink floyd;
<song> = confortably numb |paranoid android |let it be |hey jude;
<genre>= jazz|pop|rock|indie;
<album>=ummagumma|revolver|low;
```

Limitations of the JSGF:-

It will be too cumbersome to keep adding the possible values for the tags and entities and statistically generated sentences might contains gibberish which hangs the bot and it won't understand .

We can use vocab or datasets that will help us make our bot learn the conversation and understand the context much better.

TASK 2 : LOCALIZATION IN GERMAN

```
#JSGF V1.0;
grammar music_play;
public <music_play>=
[können Sie|ich möchte|Spiel mir ab](auflegen |
 |spielen|hören zu|bei )(<Künstler>|<Lied>|<Genre>|<Album>)[Musik];

<Künstler>= beatles |radio head |cake |pink floyd;
<Lied> = confortably numb |paranoid android |let it be |hey jude;
<Genre>= jazz|pop|rock|indie;
<Album>=ummagumma|revolver|low;
```

Sample Utterences examples(GERMAN)

```
Sample Utterences Examples

1)
[can you play]<unk> [beatles]<artist>
[können Sie]<unk>[beatles]<Künstler>

2) Can you please  put on a Beatles song?
[Können Sie bitte] <unk> [beatles] [auflegen]?
```