Sprint 1

Product Backlog

Story	Priority	Effort (1-10)	Validation
As a user, I want to be able to find a song by giving our application lyrics **verbally**.	1	5	Assistant returns the correct song
As a user, I want to be able to find a song by giving our application lyrics through **text**.	1	5	Assistant returns the correct song
As a user, I want to be able to respond to the application and have it play a sample of the song.	2	6	Assistant plays the song that it finds
As a user, I want the application to return a way of finding the song (apple music, google music, spotify).	3	6	Assistant provides working links to different media
As a user, I want the application to be precise in that it can predict the song with the correct lyrics that I am looking for each time it is run.	2	7	Assistant provides the same song for the same search as long as the user confirms it is correct.
As a user, I want the application to respond smoothly throughout the duration of the user conversation.	2	6	Assistant interprets user requests correctly, can adjust conversation effectively based on user responses
As a user, I want the application to ask if the correct song was played and if not, I want the application to smoothly attempt to try again.	3	6	Assistant takes in additional information to narrow down false results, responds back to user
As a user, I want to be able to give input to the application and have it learn from mistakes and get rewarded for successful finds (ML).	3	9	Assistant is able to use ML to predict the best and most likely song from a list of songs.
As a user, I want to be able to use the application in multiple languages.	4	9	Assistant is able to understand and

			communicate in multiple languages.
As a user, I want to use the application (user interface).	1	3	User is able to interact with the assistant by talking and typing.
As a user, I want to be able to find a song using just the lyrics from a song (genius API).	1	3	Application is able to find the requested song using genius API.
As a user, share the song with social media.	4	7	Working links to post on social media appear.
Set up the firebase and google actions environment and get them to work with external API calls	1	7	Our code in the cloud can do external API calls [outside google]

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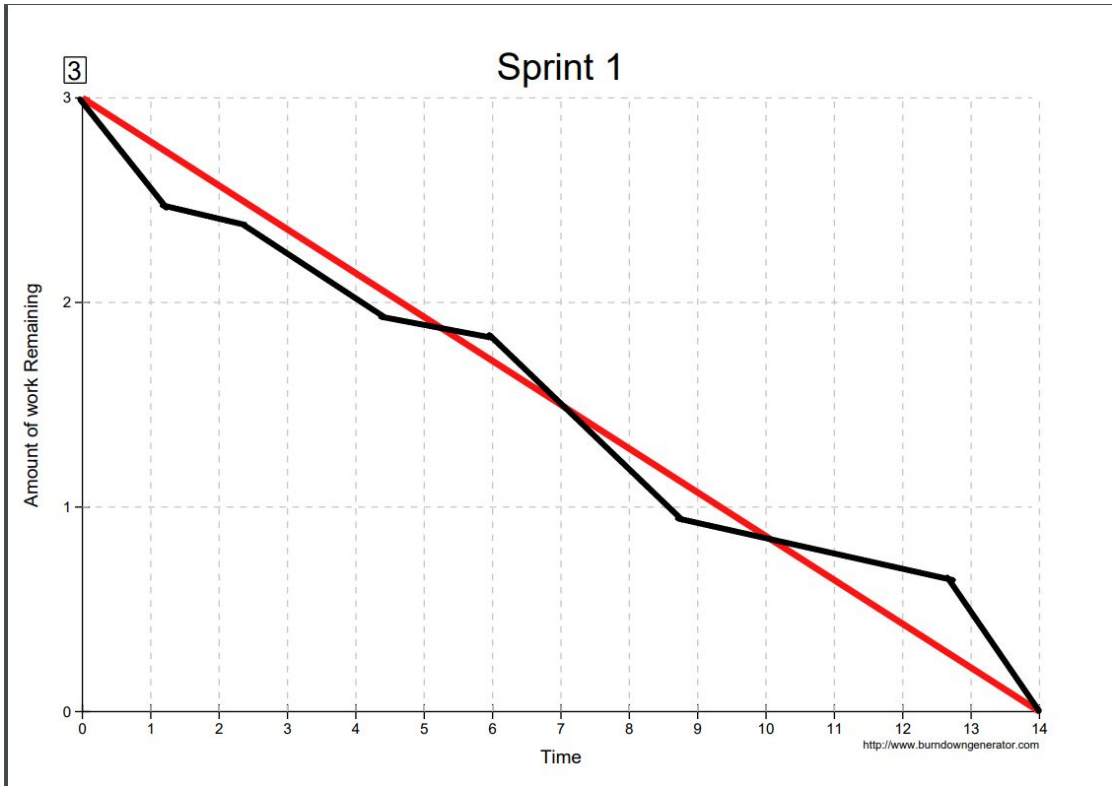
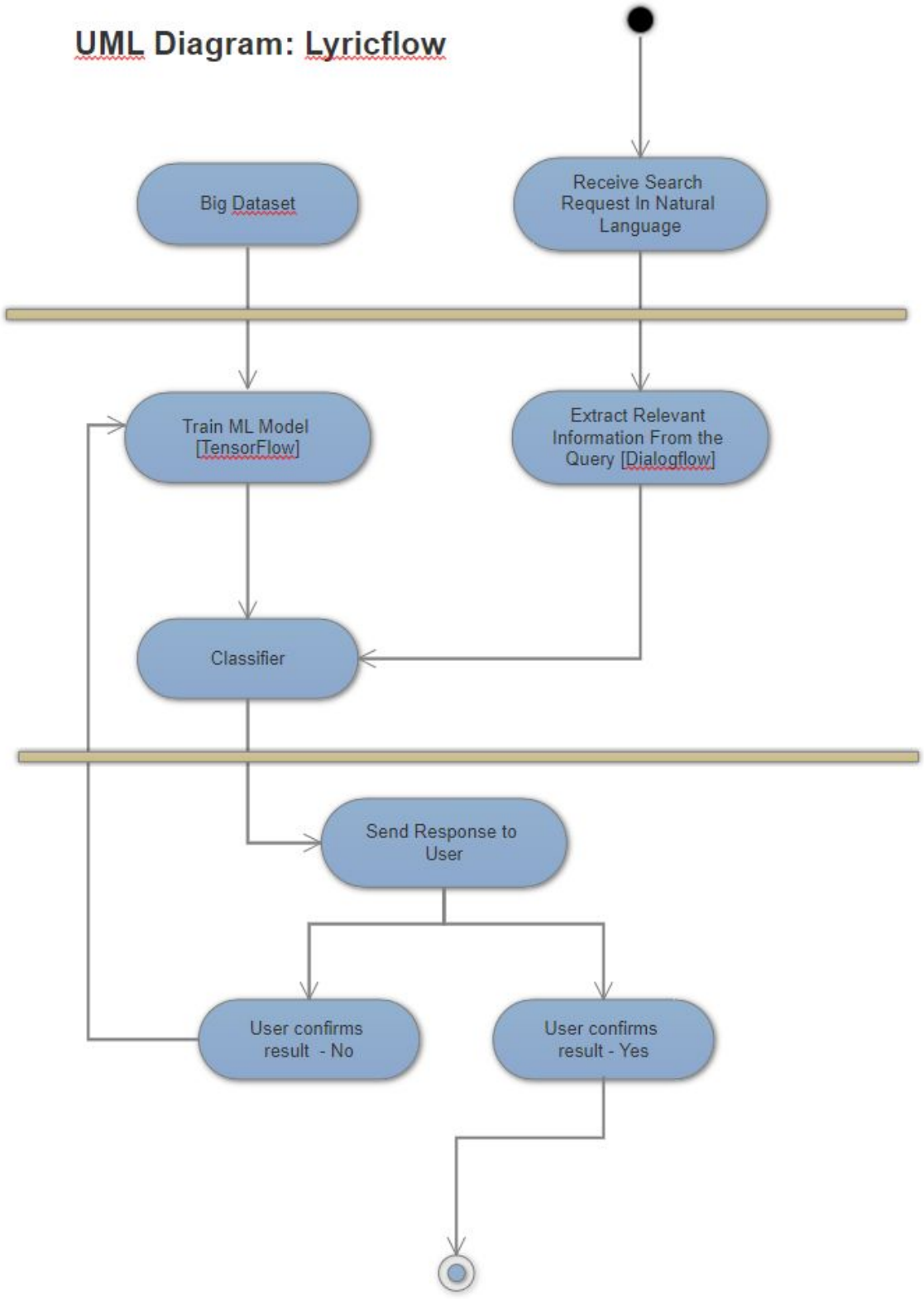
Set up the firebase and google actions environment and get them to work with external API calls	1	7	Our code in the cloud can do external API calls [outside google]
As a user, I want to be able to find a song using just the lyrics from a song (genius API).	1	3	Application is able to find the requested song using genius API.

Burndown Chart




UML Diagram: Lyricflow
Big Dataset
Receive Search Request In Natural Language
Train ML Model [TensorFlow]
Extract Relevant Information From the Query [Dialogflow]
Classifier
Send Response to User
User confirms result - No
User confirms result - Yes