At the beginning of this project we started with the idea of generating lyrics given the music genre. We later decided that it was not feasible since training the model as well as making a good dataset would have taken too much time. Therefore, we focussed on one genre. Which is rap. Our first idea was to have an RNN model that given a sentence and a number of characters as an input would produce the lyrics. We started building the model and training it. However, we later realized that there was no code that would generate rhymes. We tried to find code online, as there are different types of rhymes, but nothing would fit the model. Therefore, we decided to switch from our RNN to a Markov model.

We encountered many issues with our prior RNN model so we decided that the prior data (.csv) did not serve the purpose of our project as we did not want to save any data about the author of the lyrics and that it would be easier to manipulate a .txt file. We therefore changed and modified the basic code to fit the txt file. as well as changing to a Markov model which would help in the training and creation of lyrics. We started by analyzing the data set with a counter, plotting a graph using matplotlib. But much of the data was left to be modified as we did it all for the .csv file since we focussed more on the model after the first project update. We imported code from a poetry generator to create the syllable and rhymes.

The model has been trained with 5 and 10 epochs. However, when it comes to generating lyrics the last_word_compare function gives the error "string index out of range". We tried to solve the issue after Thursday's lab class but we did not come to a solution. We will further explore this matter and get it solved before the deadline. The code already produces one line of lyrics, thus we think that by solving this problem we will be able to finally generate lyrics. Lastly, we will proceed by testing if people can tell if the lyrics are written by the model or not. This will be achieved through the creation of an instagram profile that we will use to create surveys and get response from people. The results will be presented to the close with the project and the code during our presentation.