



# MyFm Adaptive Music Player



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## Abstract

In recent years the demand for personalization of recommendations have increased. This is because it's far easier to find something that you're looking for, recommended to you then have to search through the entire application. This is why we wanted to make this project about personalization of the recommendations to the user. We selected the music genre because it is a common occurrence that while listening to certain songs most people would enjoy to listen to similar songs that are in close proximity to the song that they are listening to right now. In this paper, we are trying to explain the processes that are involved in this.

Keywords:

Personalization of the recommendations, music genre, songs

## Introduction

MyFm is an application that adapts to the songs that the user listens to and create playlists based upon that information. This application will be mainly available on Android systems due to the fact that we are using Android Studio, as our choice of development platform. The purpose of this project is mostly to keep the user interested in using the application by making sure that the accurate recommendations are made. This goal is achieved by considering the meta fields, previous songs that user listened to and so on.

## Solution

This application attempts to predict what the user might like based on their past preference and other users' similar preferences. User initially enters the system, starts listening and liking songs then they are able to find their recommendations in the Your Mix page. Besides that It allows for viewing their liked songs, last listened songs, searching for a song by song name or artist name and creation of playlists.



Figure 1  
Development Environment and Project Logo

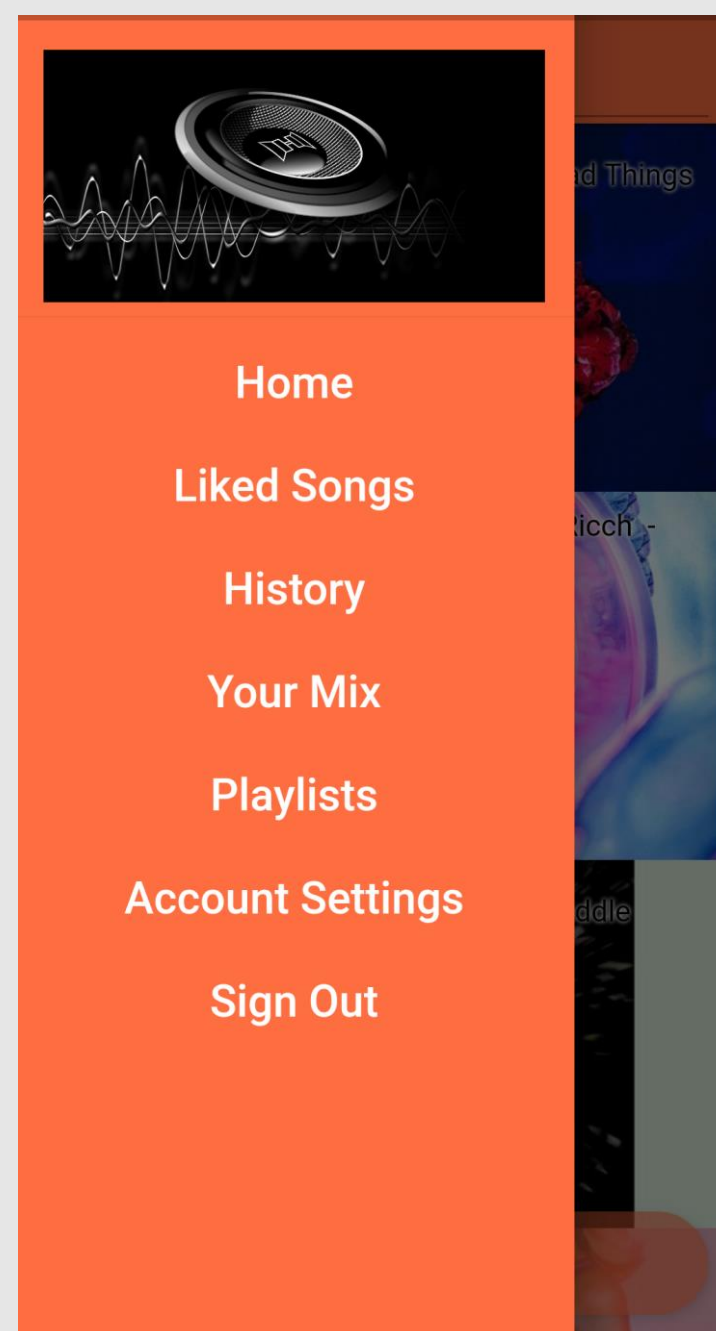
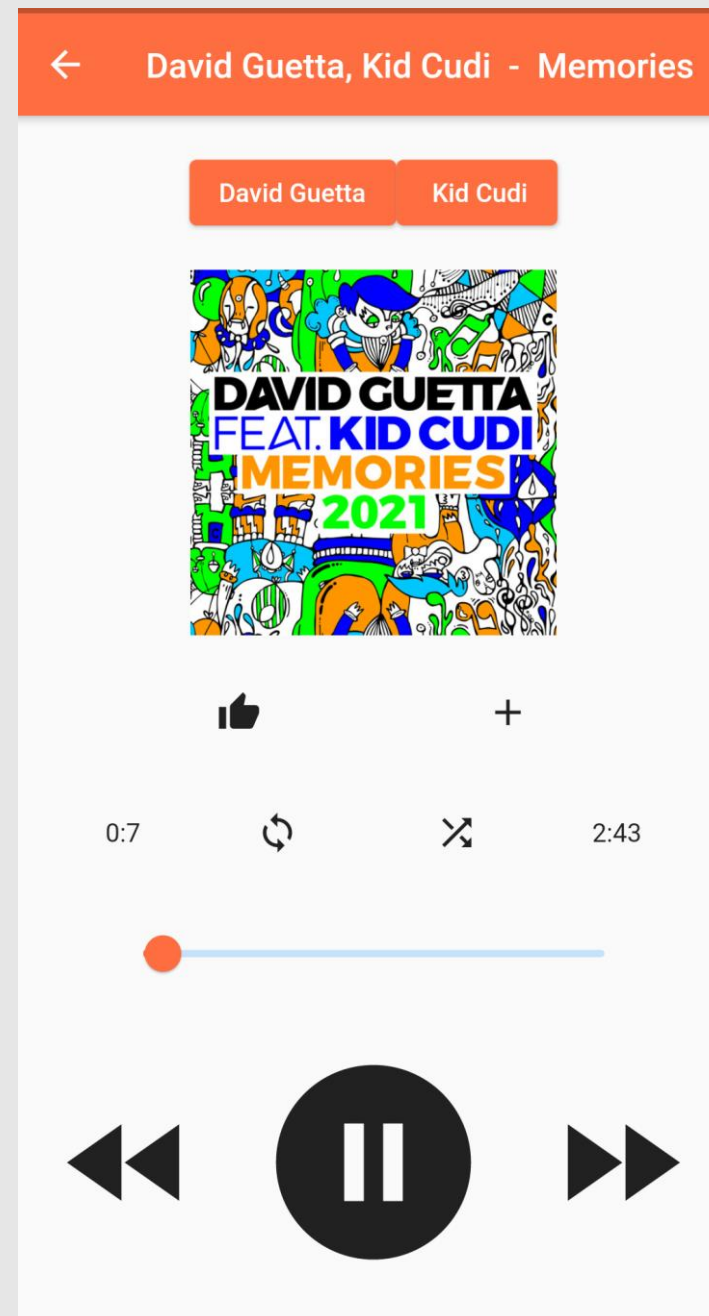


Figure 2 – Finished Product

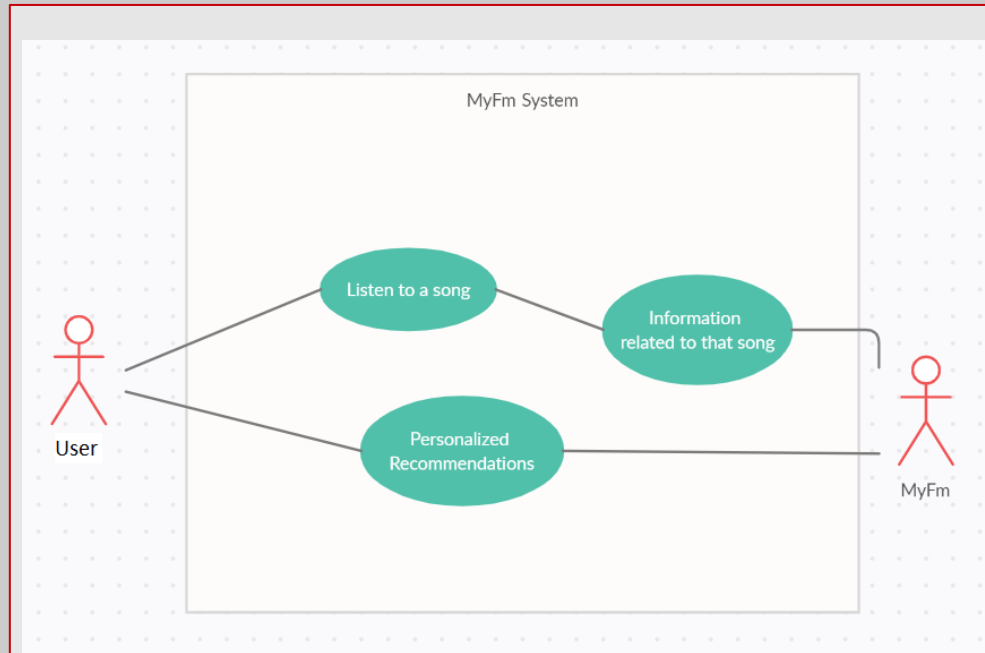


Figure 3 – Use Case

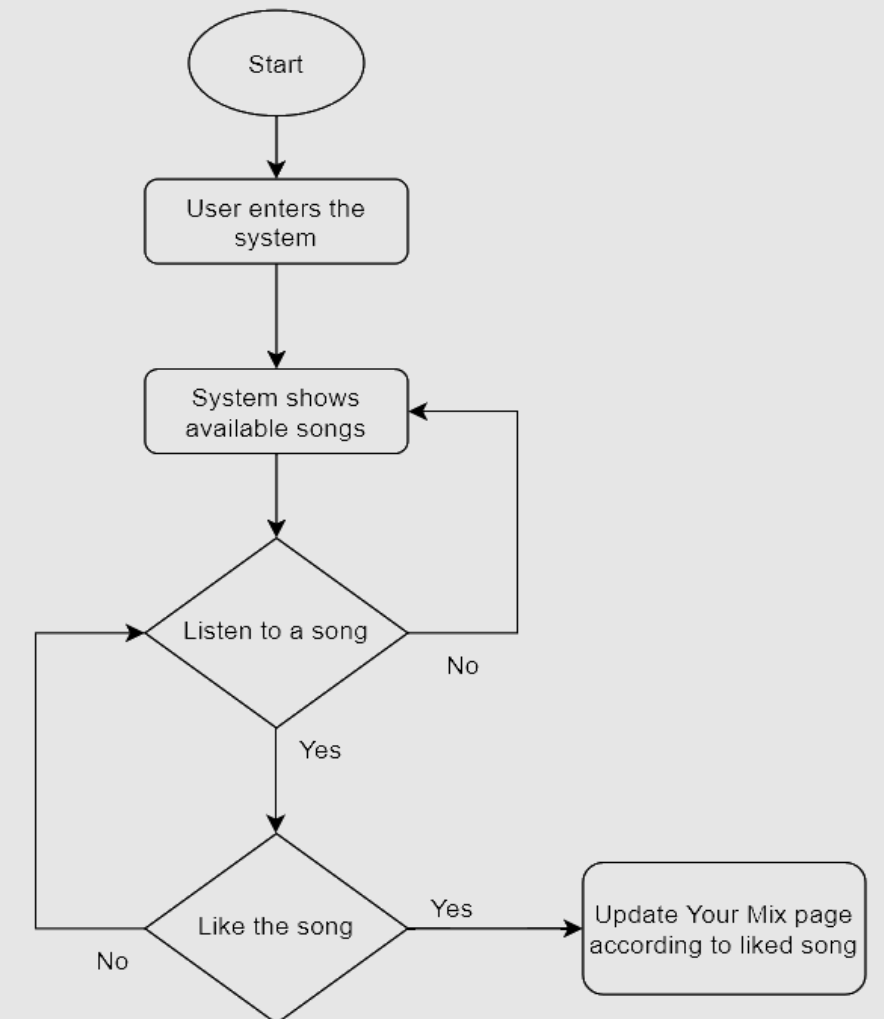


Figure 4 - Flowchart

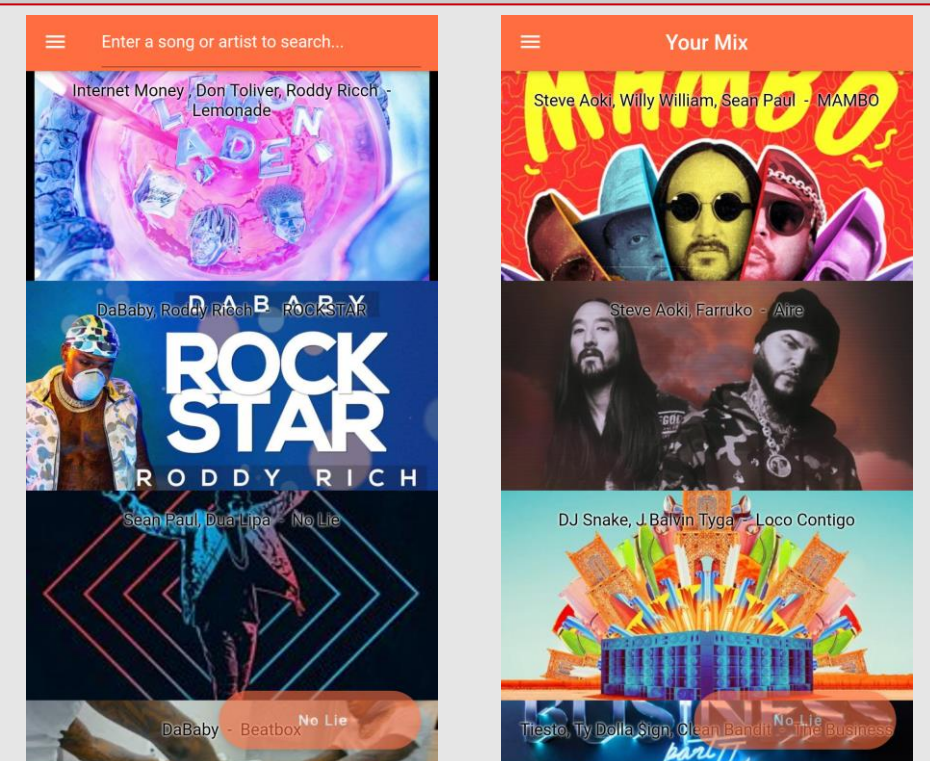


Figure 5 – Finished Product  
(Home page on the left, recommendation page on the right)

## Results & Conclusion

In conclusion people in today's world want what they might like to be found for them rather than having to search for it which can be time consuming. To meet this need we have designed a system of predictions in this application. As a result of this, the application tries to adapt to user's music taste.

## Acknowledgement

We would like to thank the advisor of our project Hasan OĞUL for supporting us with his innovative ideas.

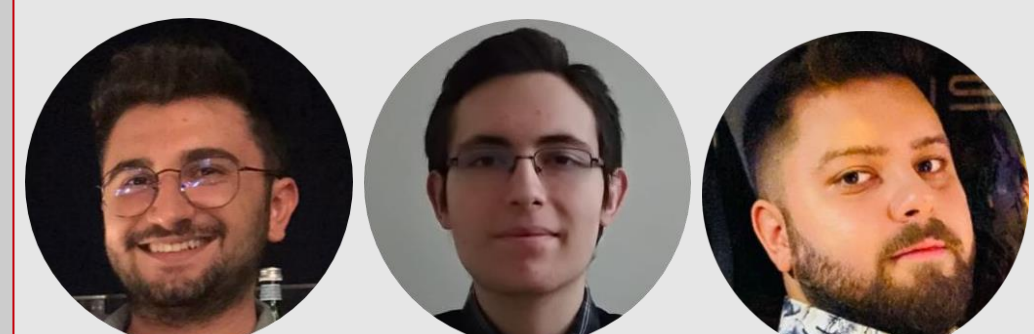


Figure 6 – Group Members