PES UNIVERSITY

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Bengaluru 560085

Department of Computer Science and Engineering
B. Tech. CSE - 6th Semester
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UE20CS352
OBJECT ORIENTED ANALYSIS AND DESIGN IN JAVA (OOADJ)

Project Report

MUSIC PLAYER APP (SPOTIFY CLONE)

PES1UG20CS614: Mohammed Anas Danish
PES1UG20CS652: Joel M DSouza
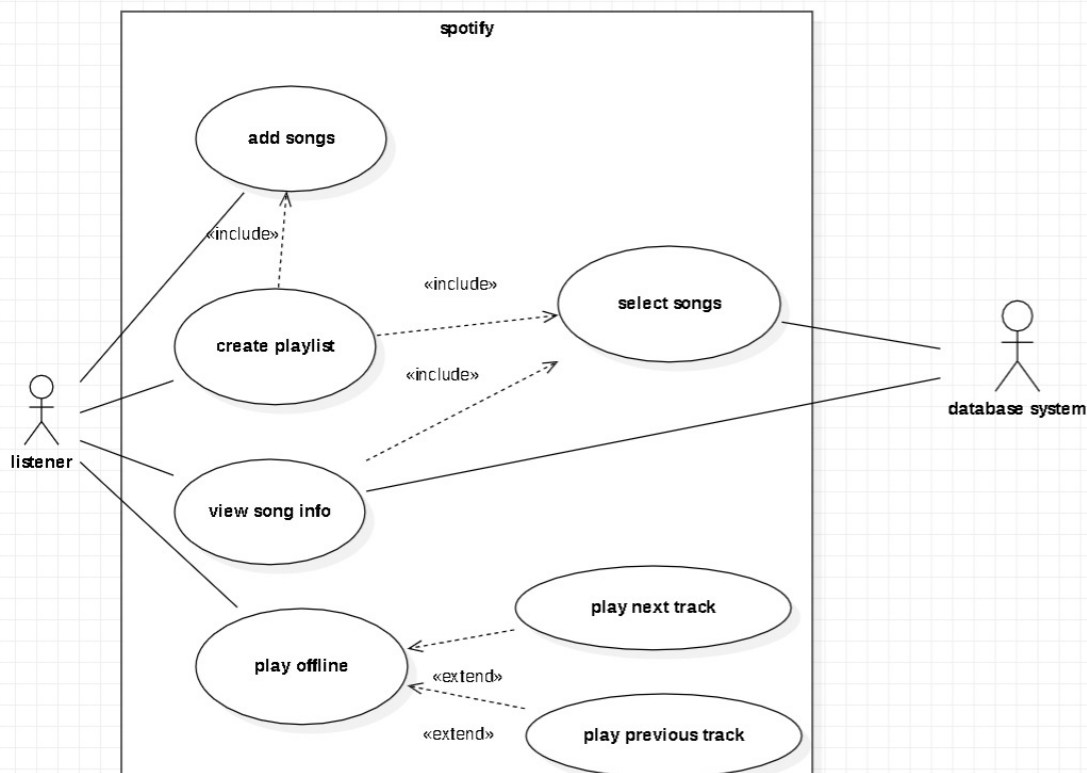PES1UG20CS643: Haneya Seemin
PES1UG20CS640: Darshan Kademani

Project under guidance of:

Asst. Prof. BHARGAVI M MOKASHI

SYNOPSIS

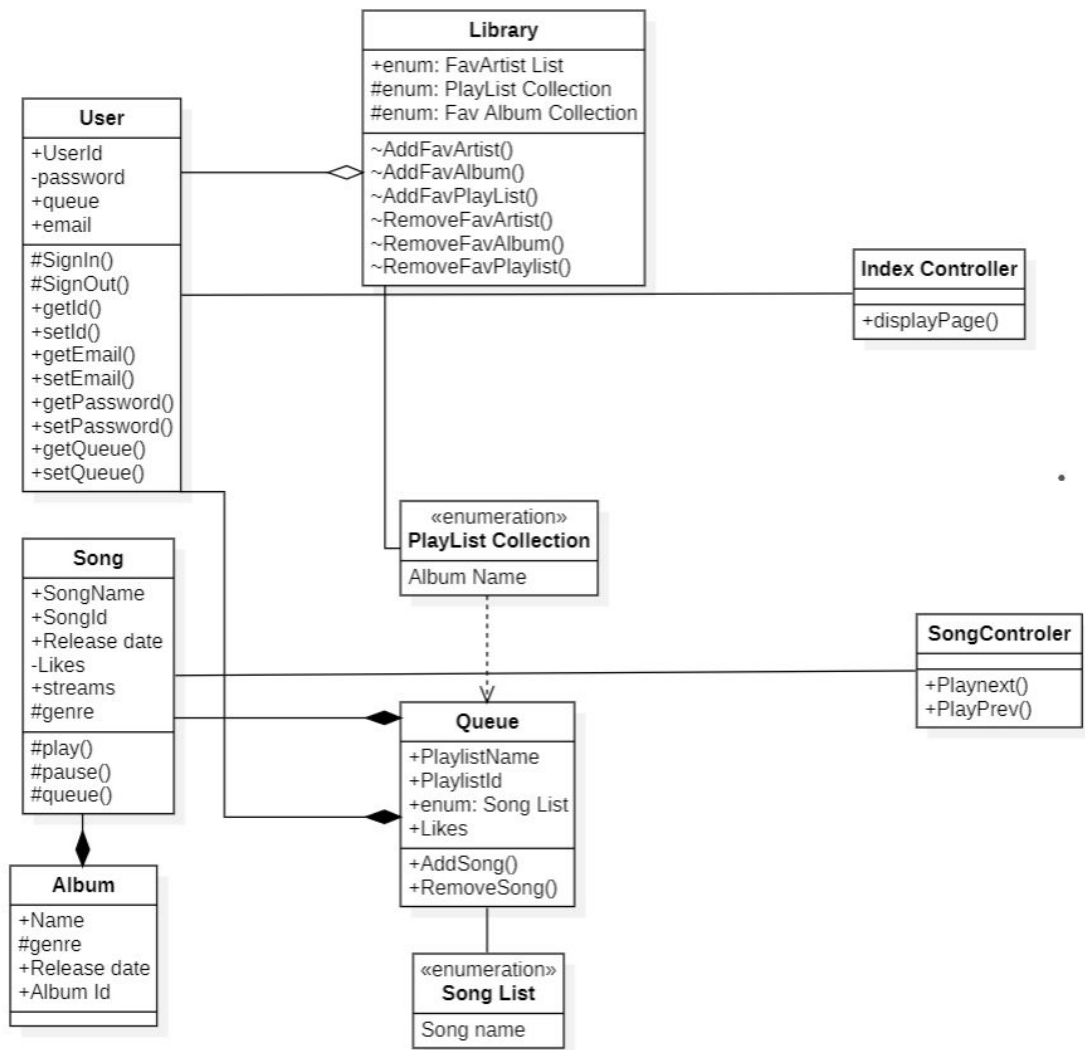Our project spotify clone is a music streaming application that replicates the features and functionalities of the popular music streaming platform, Spotify. Our app allows users to search for and listen to music from a vast library of songs, create and manage playlists.Spotify clone uses mongodb to store user data and digital ocean to store songs, java-backend is used along with react for front-end.
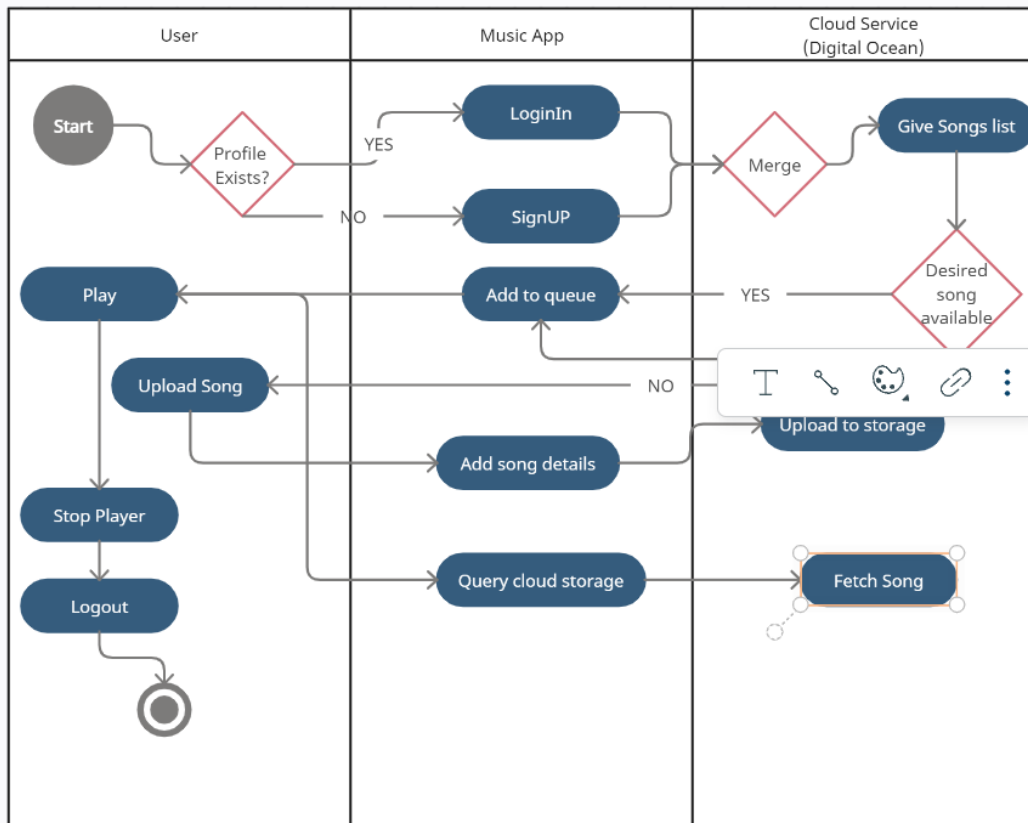
USE CASE DIAGRAM

CLASS DIAGRAM

Library

+enum: FavArtist List
#enum: PlayList Collection
#enum: Fav Album Collection
~AddFavArtist()
~AddFavAlbum()
~AddFavPlayList()
~RemoveFavArtist()
~RemoveFavAlbum()
~RemoveFavPlaylist()

User

+UserId
-password
+queue
+email
#SignIn()
#SignOut()
+getId()
+setId()
+getEmail()
+setEmail()
+getPassword()
+setPassword()
+getQueue()
+setQueue()

Index Controller

+displayPage()

«enumeration»
PlayList Collection

Album Name

Song

+SongName
+SongId
+Release date
-Likes
+streams
#genre
#play()
#pause()
#queue()

SongControler

+Playnext()
+PlayPrev()

Queue

+PlaylistName
+PlaylistId
+enum: Song List
+Likes
+AddSong()
+RemoveSong()

Album

+Name
#genre
+Release date
+Album Id

«enumeration»
Song List

Song name

ACTIVITY DIAGRAM

STATE DIAGRAM

MUSIC PLAYER APP STATE DIAGRAM

name and password

login

sign up

user credentials

song player

main screen

Logout

tap on song

double tap on song

upload from local system

add queue

type name of song

upload song

search song