



**CSE 3105/CSE 3137**

**OBJECT ORIENTED ANALYSIS AND DESIGN**

**FALL 2020**

**COURSE PROJECT: <Chez Media Player>**

***Requirements Analysis Document***

***Group 11***

*Cenk AKYOL 170315018*

*Fatih Turan GÜNDÖĞDÜ 170315030*

*Elif COŞGUN 180316019*

*Melih Kaan ERMEKİN 150315032*

*Berkay PAÇAL 170315013*

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# 1 Introduction

Nowadays, many users are taking care of their tasks on their phones but when it comes to watching videos or listening to musics things get tough. There are lots of media player at market but some of them doesn't looking good, some of them are hard to use. As a solution to this we created a new media player. In our media player, user can create playlists, add songs to these playlists and can play and watch albums as she/he wishes. And also it's very easy to use and the interface is user-friendly, pleasing to eye.

## 2 Current System

Current system is in progress.

## 3 Proposed System

### 3.1 Overview

On Chez user has all the functions they are looking for in a media player. User can store their information and use the app securely thanks to user authentication. On the app user can watch videos, manage playlists, play musics from playlists and have a nice and easily accessible interface.

### 3.2 Functional Requirements

Chez is a D&D themed media browser application that plays music, video and shows pictures on it. Chez can show list on main page with user's choices. Chez needs user info to show lists. Chez has a basic interface. On top line, there are menus that lists music genres, playlists and all songs. On middle line there are 5 lines to list genres, playlists and all songs. On bottom part there is a time line which shows the length of music or video. Over the timeline there is a text line to show the time of song or video. Next to text zone there is a button to start video show of current song. Video show starts on middle part, over the lists. On right upper corner it has a cross to close video show. Also there are 3 buttons for rewind, pause/play and put forward next to timeline.

### 3.3 Nonfunctional Requirements

Availability: Users can use the app any time. In the case of unplanned system downtime, all features will be available again after one working day.

Usability: The app interface has to be user-friendly and easy to use.

Performance: The app load time should not be more than two seconds.

Capacity: Up to 1,000,000 music and video can be stored.

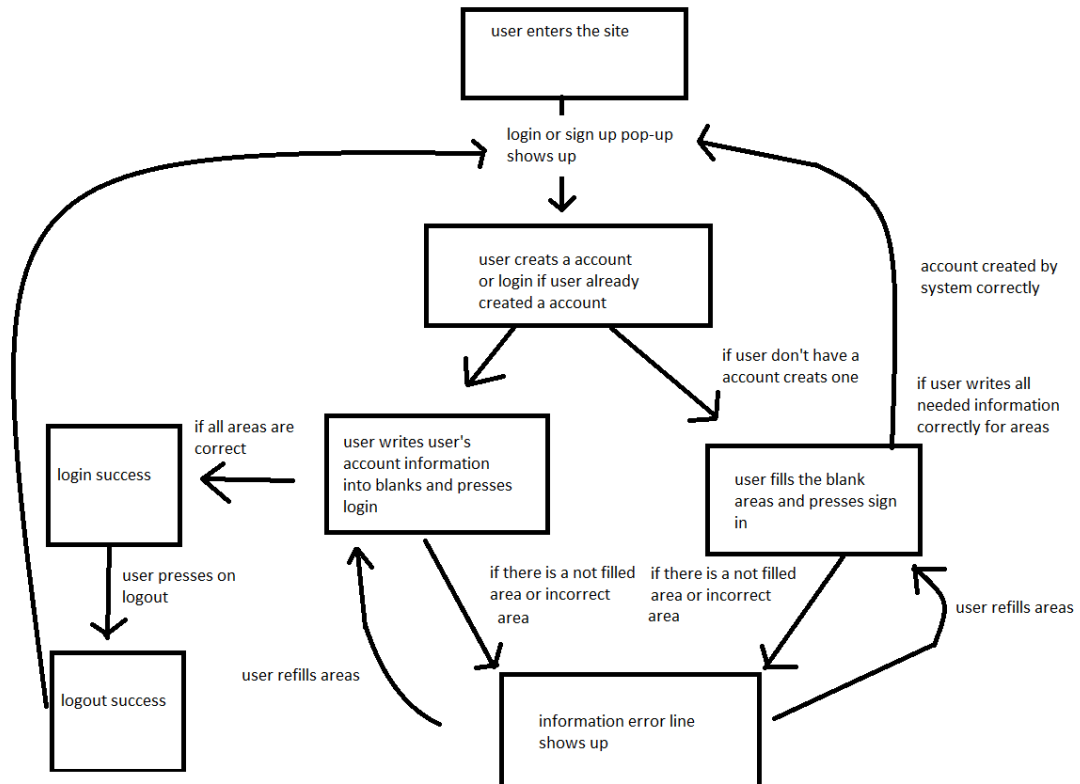
Security: Every user's playlists are private.

Data integrity: The system should keep backups of all updates to the database.

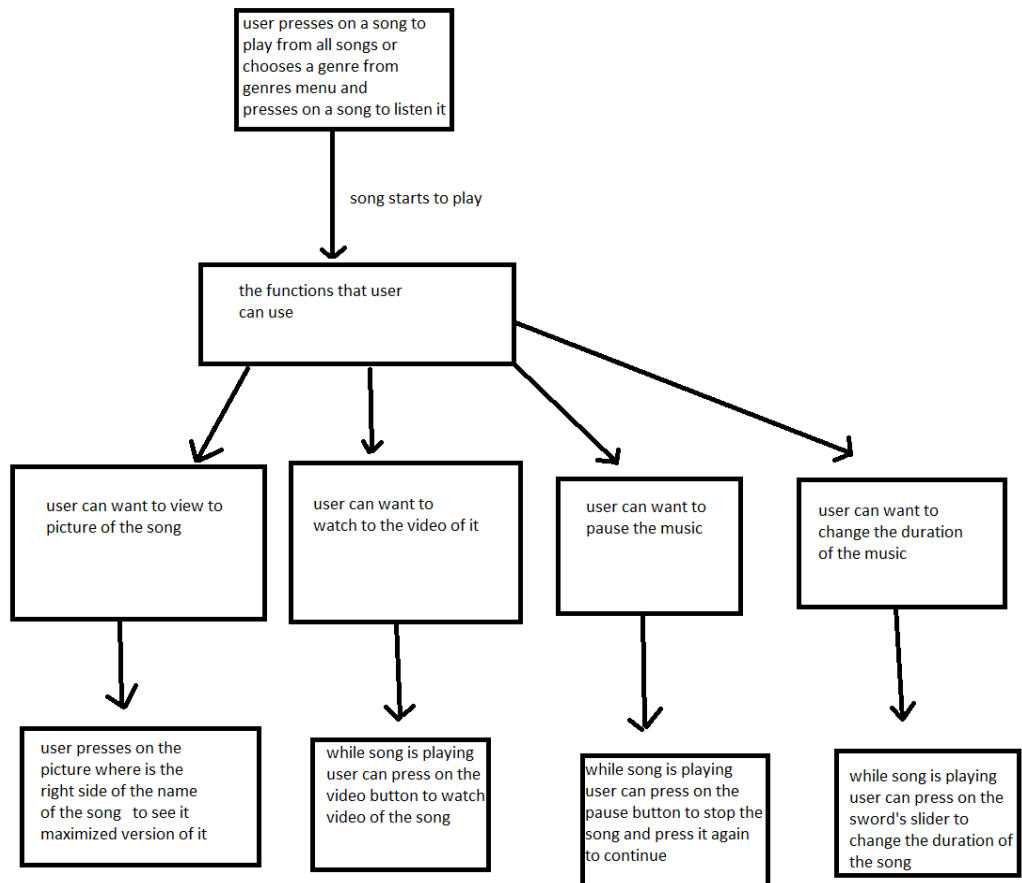
Maintainability: If the services become unavailable, they can be under maintenance for approximately three hours.

## 3.4 System Models

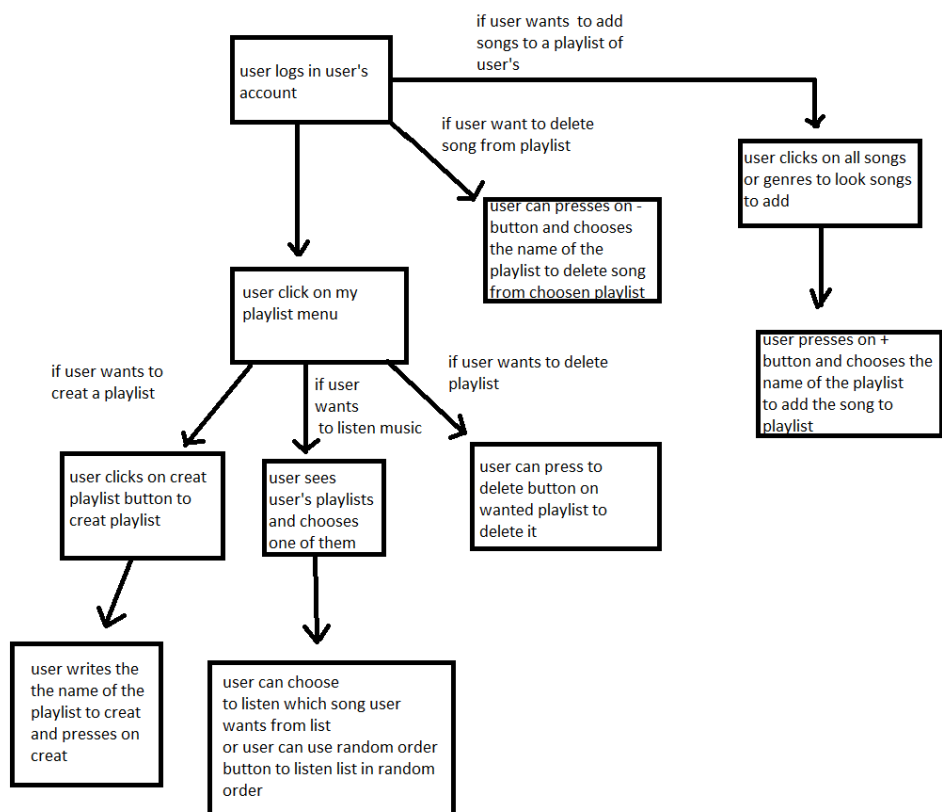
### 3.4.1 Scenarios



Log In-Sign Up-Log Out Scenarios

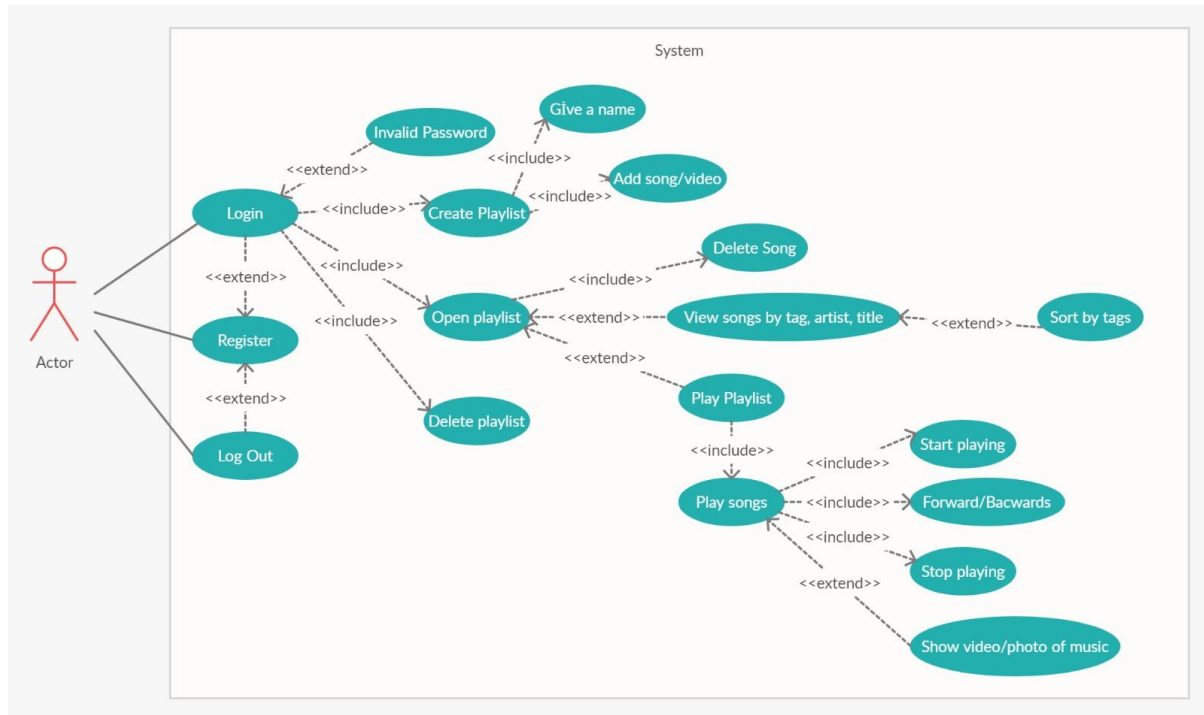


### Music Function Scenarios

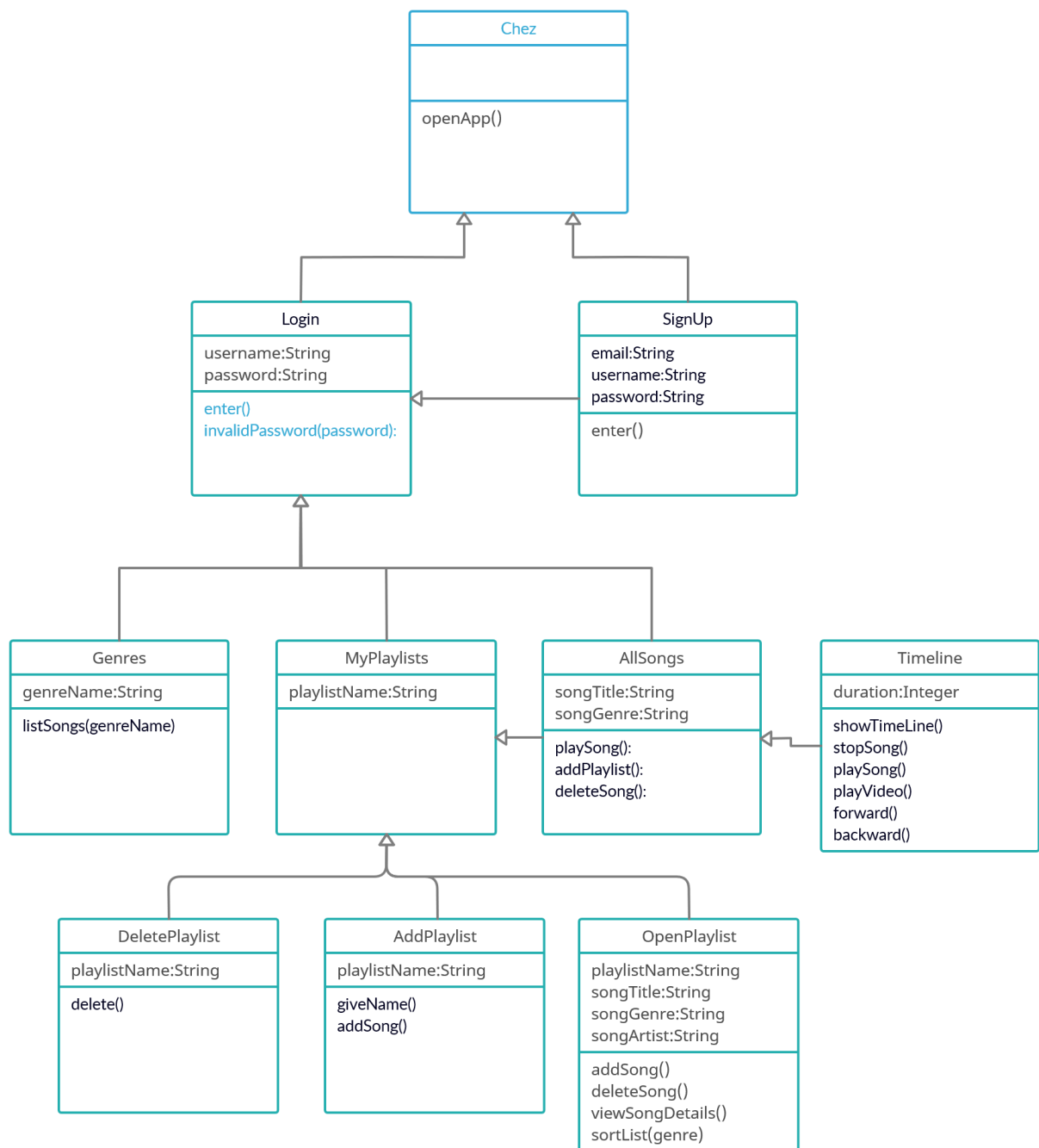


### Playlist Scenarios

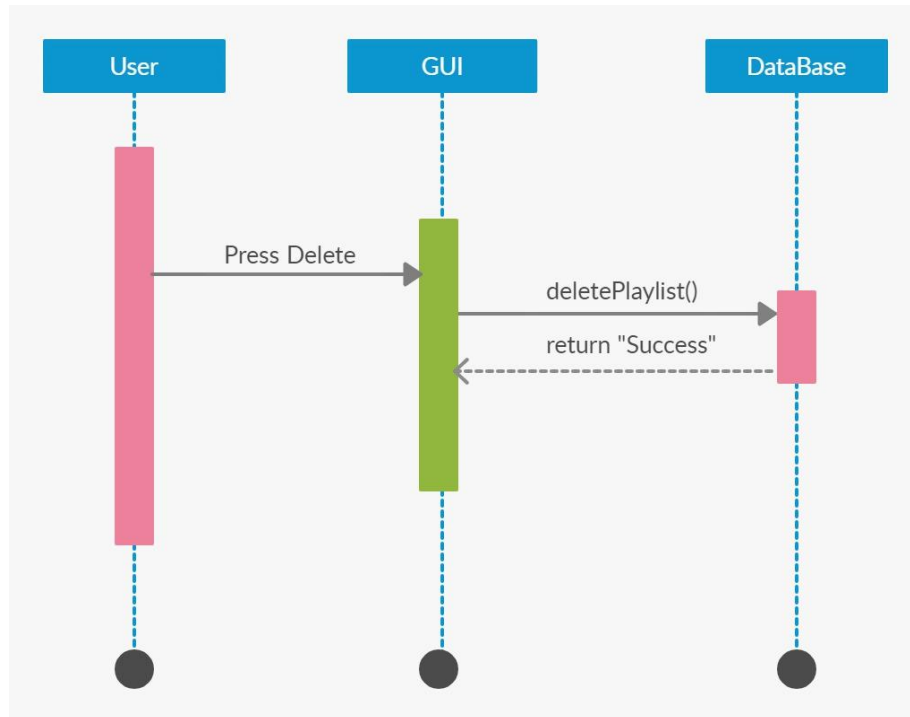
### 3.4.2 Use Case Model



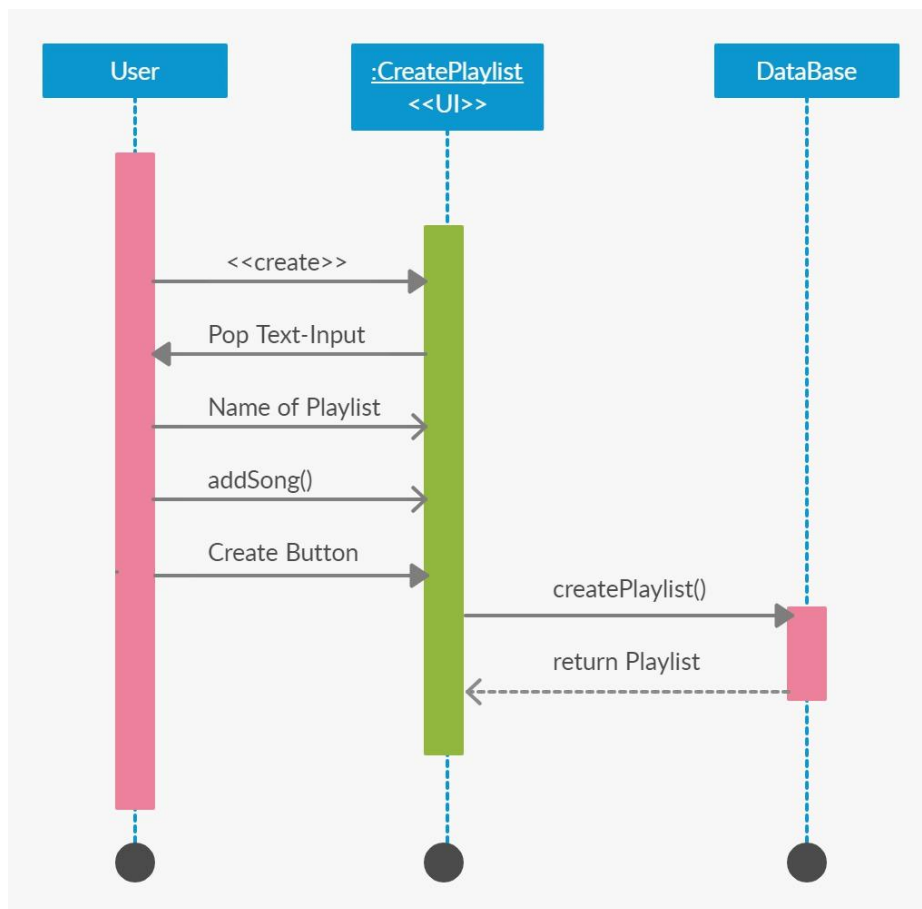
### 3.4.3 Object Model



### 3.4.4 Dynamic Models

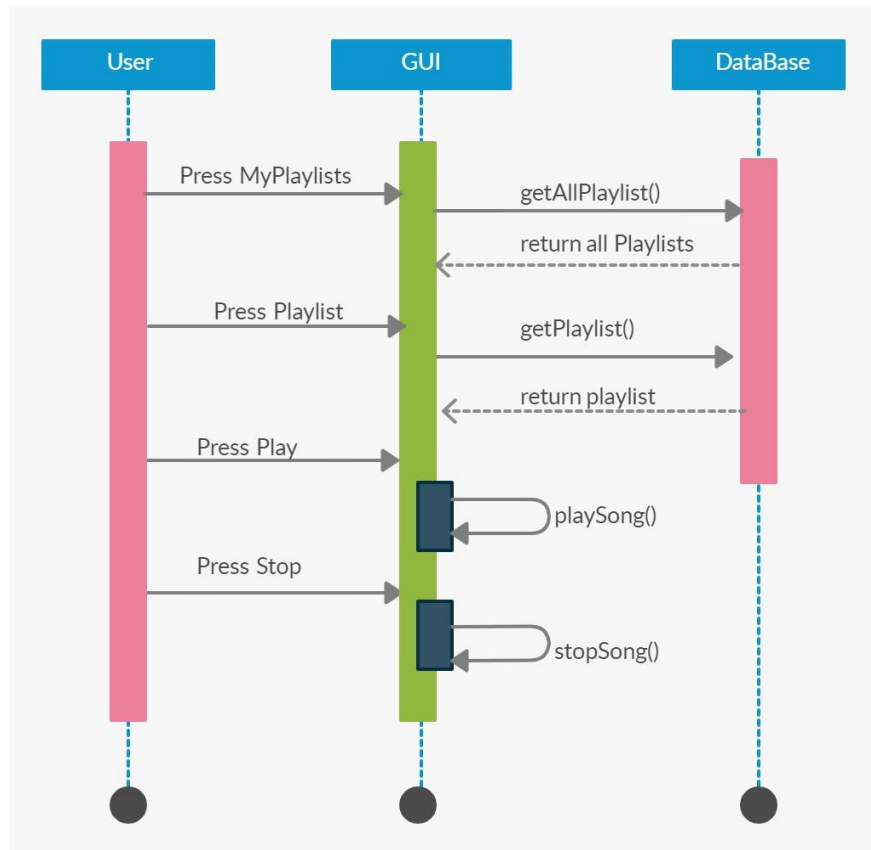


deletePlaylist Sequence Diagram



createPlaylist Sequence Diagram





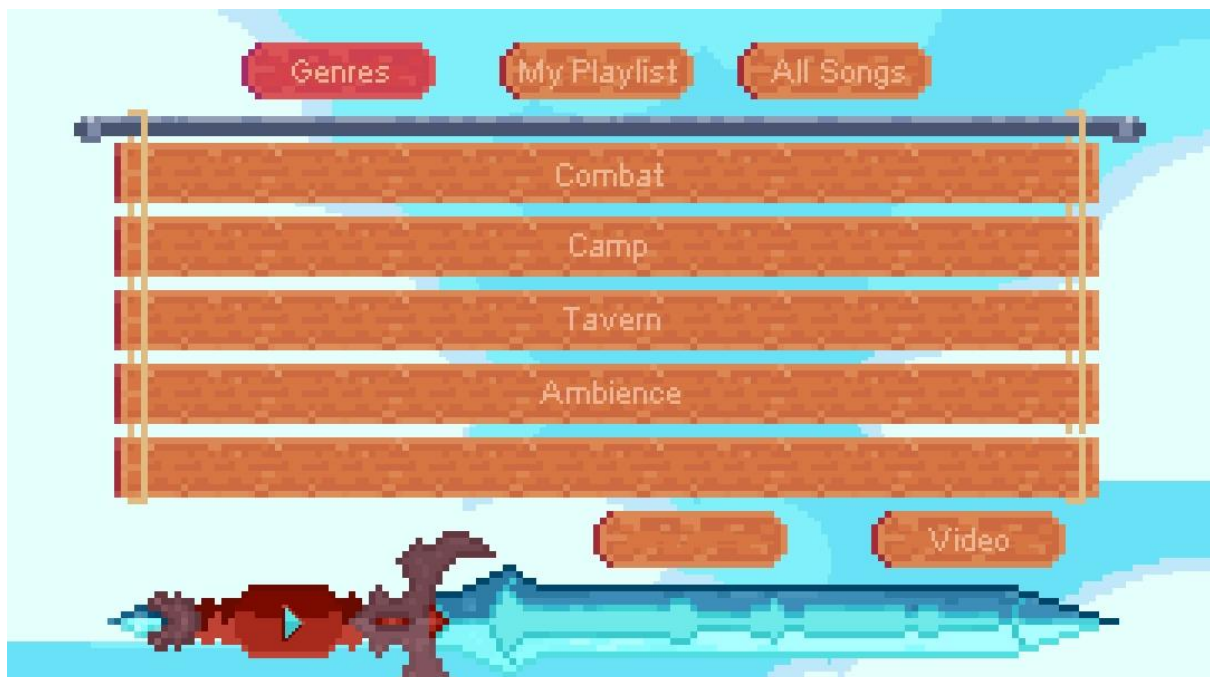
openPlaylist Sequence Diagram

### 3.4.5 User Interface Mock-ups



*Login and Sign Up Screen*

On this screen user can login with username and password info to application at left side. On right side there are sections for user to sign-up. When pressed enter, it directs to "Genres" list screen.



*Genres List*

On this screen user can list the available genres on application.



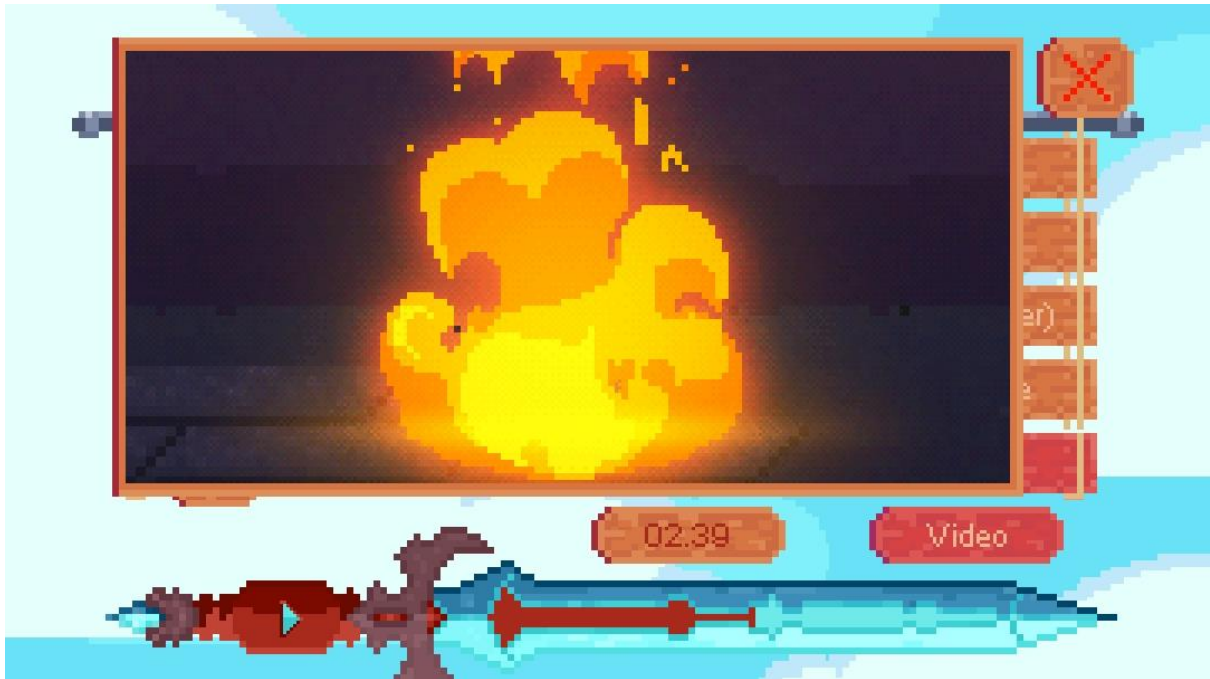
*Playlists List*

This screen appears after user pressed on “My Playlist” and it lists the playlists user created.



*All Songs List (Danheim – Berserkir is currently playing on application on this screen)*

This screen appears after user pressed on “All Songs” and lists available songs on application. Playing song shows with red background and time zone starts from 00:00 when songs started playing. On this screen user also can see every song’s cover photo on left side. After song started playing, timeline starts filling with red line on blue sword at the bottom. User can stop the song from the left side of the sword.



*A video is playing of current song*

Video show starts when user presses on “Video” button. It appears on list.

## 4 Glossary

Chez is media player that created for users who like roleplay games. Chez includes a main page that have the all song listed , genres menu for searching songs based on their tags such as ambience, tavern, combat and camp.

My playlist is a last menu that user can creat or delete user's playlist as user wants and add or remove which song user wants to playlist.

User can look at the pictures of the songs or watch the video of them.