Team TrioPlusOne

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→ Design a Music Player

```
se and String#toUpperCase do
reason we need to detect th
slower alternatives.

owerCase()) {

lLowercase;

lUppercase;

de(code) { return String.from

= undefined,
= null,
= '$scope',
= '$validate',
= 'angular',
= 'array',
```
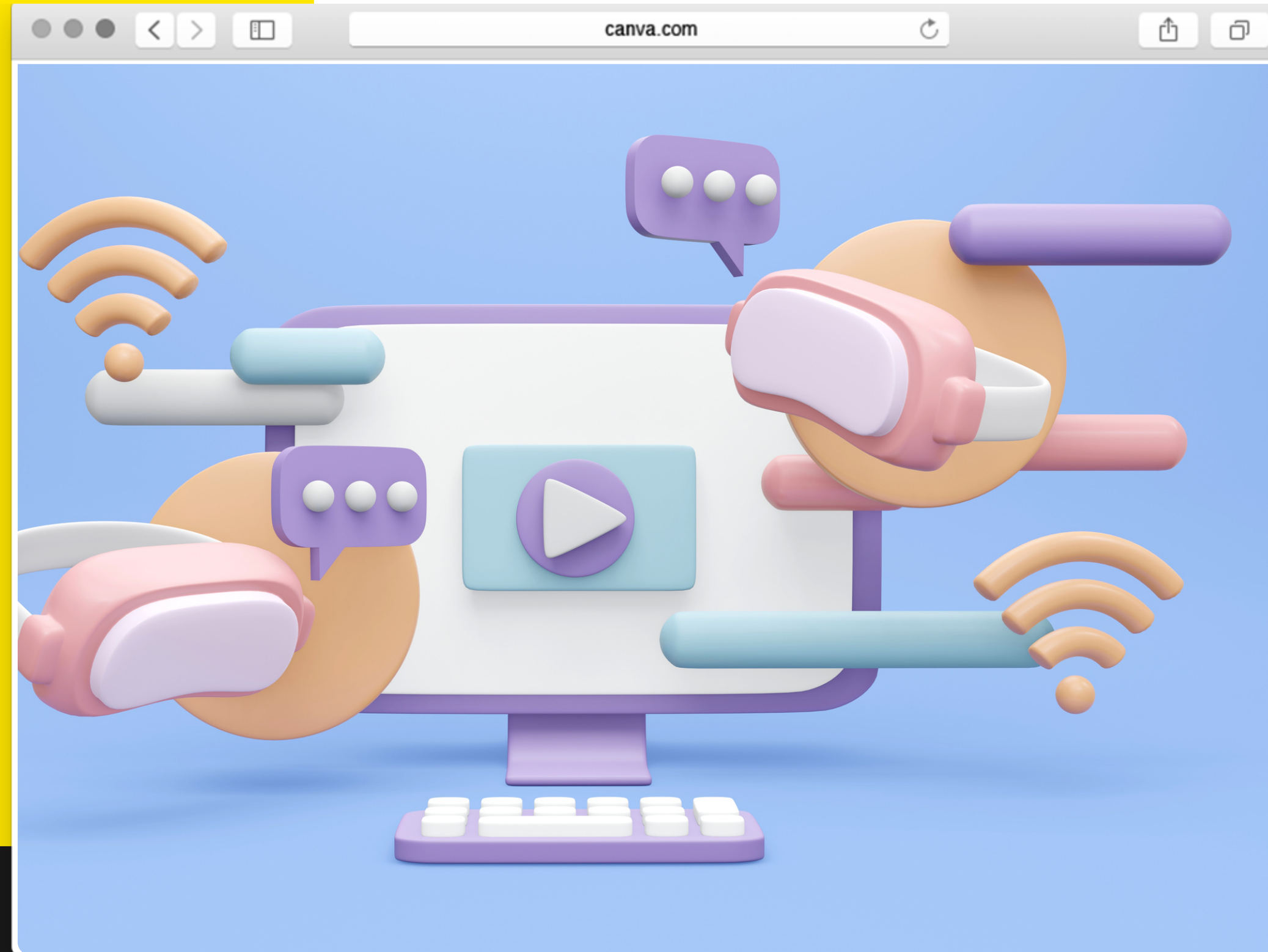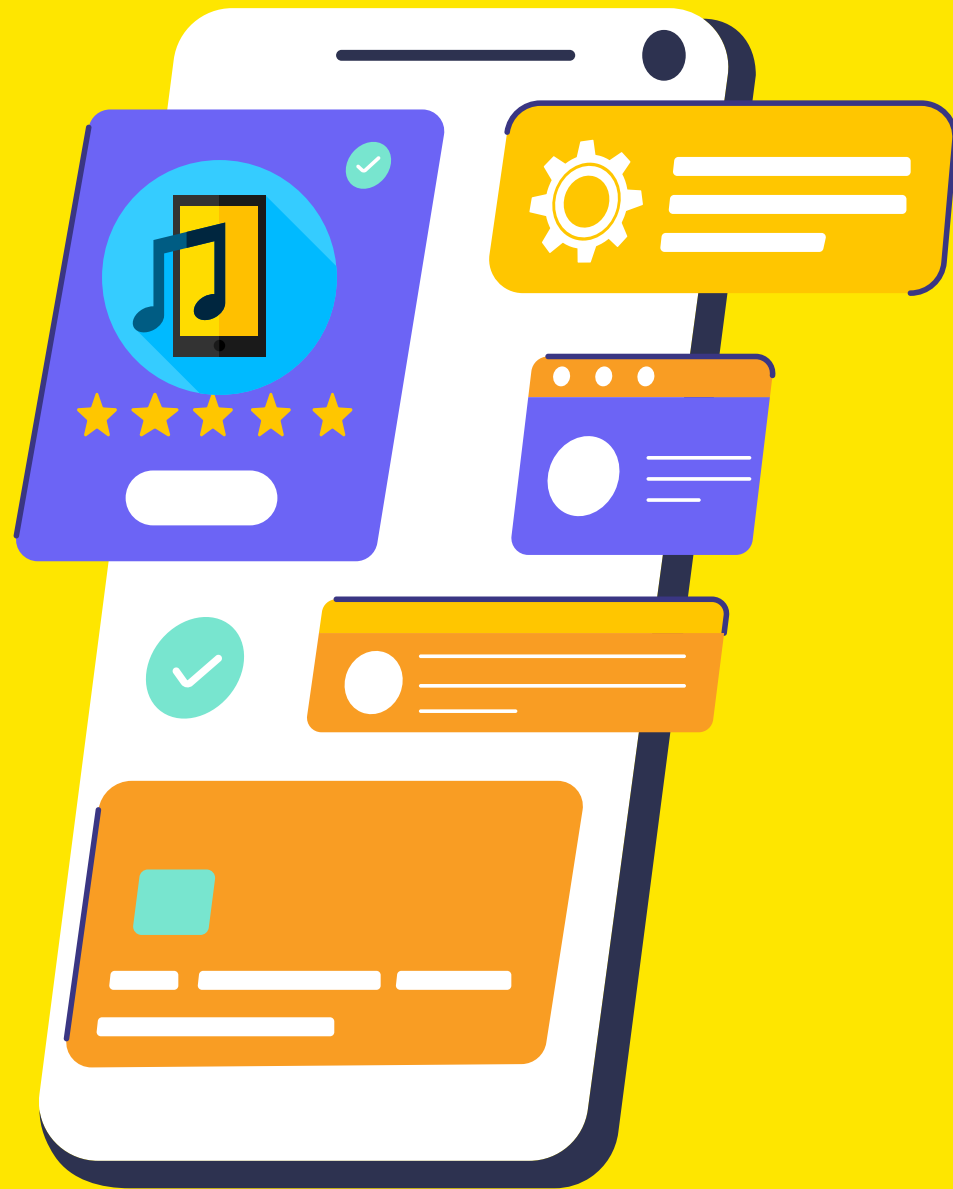
Problem Statement

→

Design a Music player

Design and implement Music Player by applying data structures and algorithms to implement specific functionalities for design and implementation of music player.
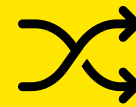
Functionalities

Features of our platform

⊕ Add a song

⤨ Play random song

▶❚❚ Play / Pause current song

⇄ Skip backward / Skip Forward

🔊 Adjust Volume of music

🔍 Search / sort or manage

↺ Maintain listening history of particular user

Data Structures / Data Types used

Doubly Linked List →

- Store Music in Database
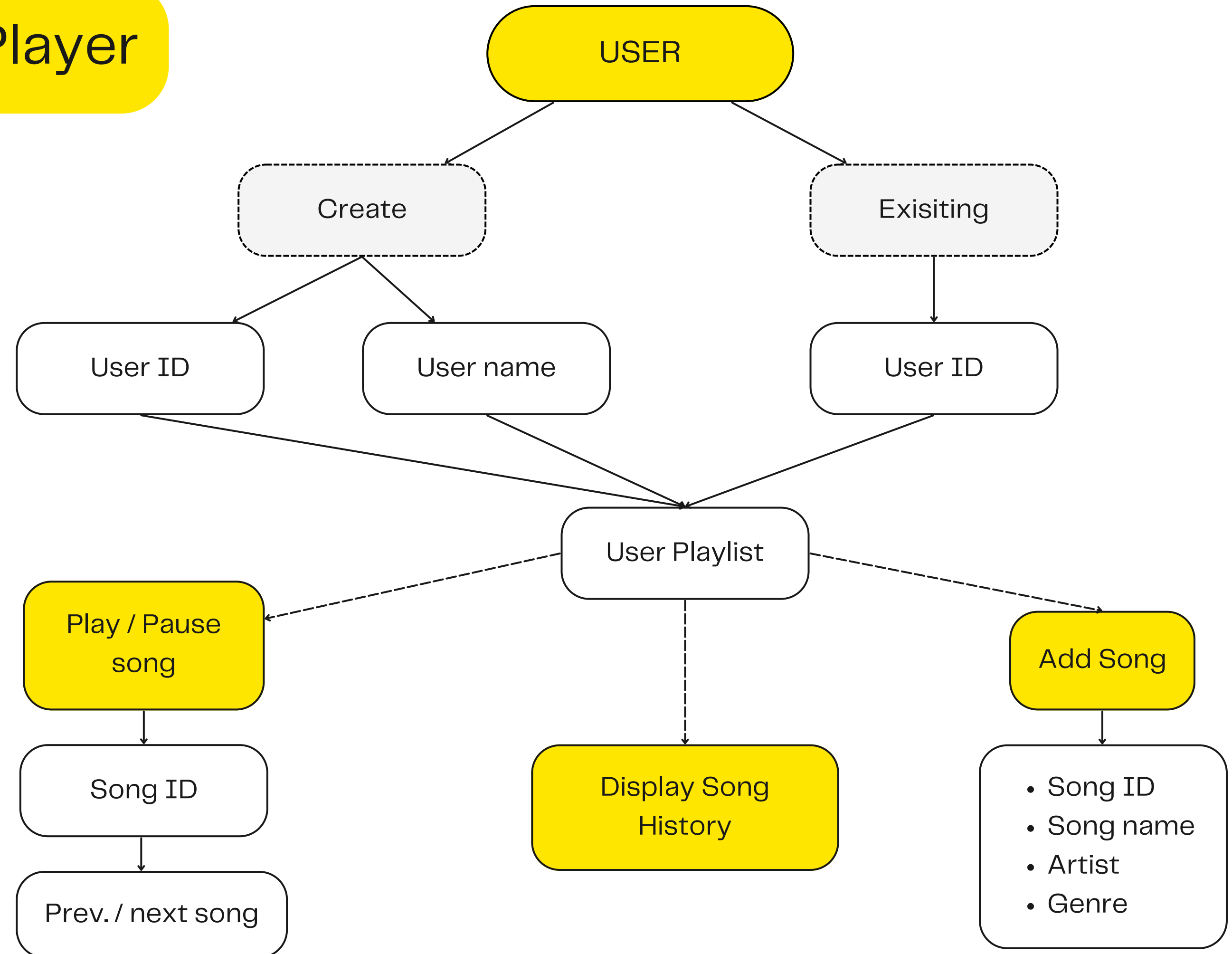- Change music i.e. previous and next track

Unordered Map →

- User-wise song history
- Searching songs

Class

- Song Functionalities :
  1. Song ID
  2. Song name
  3. Play/Pause
- User Functionalities :
  1. User ID
  2. User name

Flow of Music Player

```
                                    USER
                                   /    \
                                  /      \
                              Create      Exisiting
                              /    \           |
                             /      \          |
                        User ID   User name  User ID
                             \        |        /
                              \       |       /
                               \      |      /
                                User Playlist
                          /          |          \
                         /           |           \
              Play / Pause      Display Song    Add Song
                 song             History          |
                    |                               • Song ID
                 Song ID                            • Song name
                    |                               • Artist
              Prev. / next song                     • Genre
```

THANK YOU !!