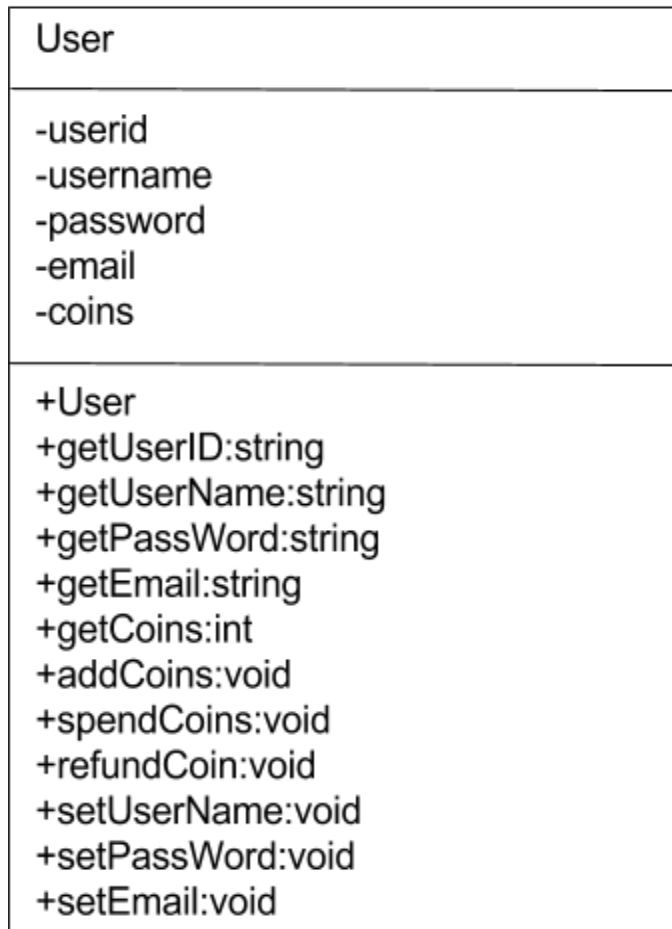Seth Nute, Anthony DiMarco, Andrew Baehre, Amit Ishairzay
Intermed Software Design Assignment 3
Due Apr 6th

Class Diagrams:

User
-userid -username -password -email -coins
+User +getUserID:string +getUserName:string +getPassWord:string +getEmail:string +getCoins:int +addCoins:void +spendCoins:void +refundCoin:void +setUserName:void +setPassWord:void +setEmail:void

This class is part of the NodeJS section of the architecture. It will store all information about a single user.

```
┌─────────────────────────────────────────┐
│ Playlist                                │
├─────────────────────────────────────────┤
│ -songs:arraylist<Song>                  │
│ -genre:string                           │
│ -connectedUsers:arraylist<User>         │
├─────────────────────────────────────────┤
│ +addSong(Song song):boolean            │
│ +removeSong(int index):boolean         │
│ +removeUser(User user):boolean         │
│ +addUser(User user):boolean            │
│ +getGenre:string                        │
└─────────────────────────────────────────┘
```

This class is a part of the NodeJS section of our architecture. It will be used to keep the playlist consistent for all users.

```
┌─────────────────────────────────────────┐
│ Playlists                               │
├─────────────────────────────────────────┤
│ -list:arraylist<playlist>               │
├─────────────────────────────────────────┤
│ +Playlists                              │
│ +getPlaylists:arraylist<playlist>      │
│ +setPlaylists:void                      │
└─────────────────────────────────────────┘
```

This class is a part of the NodeJS section since it will be how we keep track of all playlists currently available to users.

```
┌─────────────────────────────────────┐
│        Leaderboard                  │
├─────────────────────────────────────┤
│   -users:list                       │
│   -type:genre                       │
├─────────────────────────────────────┤
│   +Leaderboard                      │
│   +getType:genre                    │
│   +addUser(user)                    │
│   +getLeaderboard:list[User]        │
└─────────────────────────────────────┘
```

This class above is a part of the NodeJS section since it will be used to structure how a leaderboard is stored in our program.

```
┌─────────────────────────────────────┐
│        Song                         │
├─────────────────────────────────────┤
│   -artist:String                    │
│   -genre:String                     │
│   -name:String                      │
│   -length:Int                       │
│   -spotifyId:String                 │
├─────────────────────────────────────┤
│   +Song                             │
│   +getArtist:String                 │
│   +getName:String                   │
│   +getLength:Int                    │
│   +getSpotifyId:String              │
└─────────────────────────────────────┘
```

This class is a part of the NodeJS section since it will be used to structure how a song is stored and structured in our program.