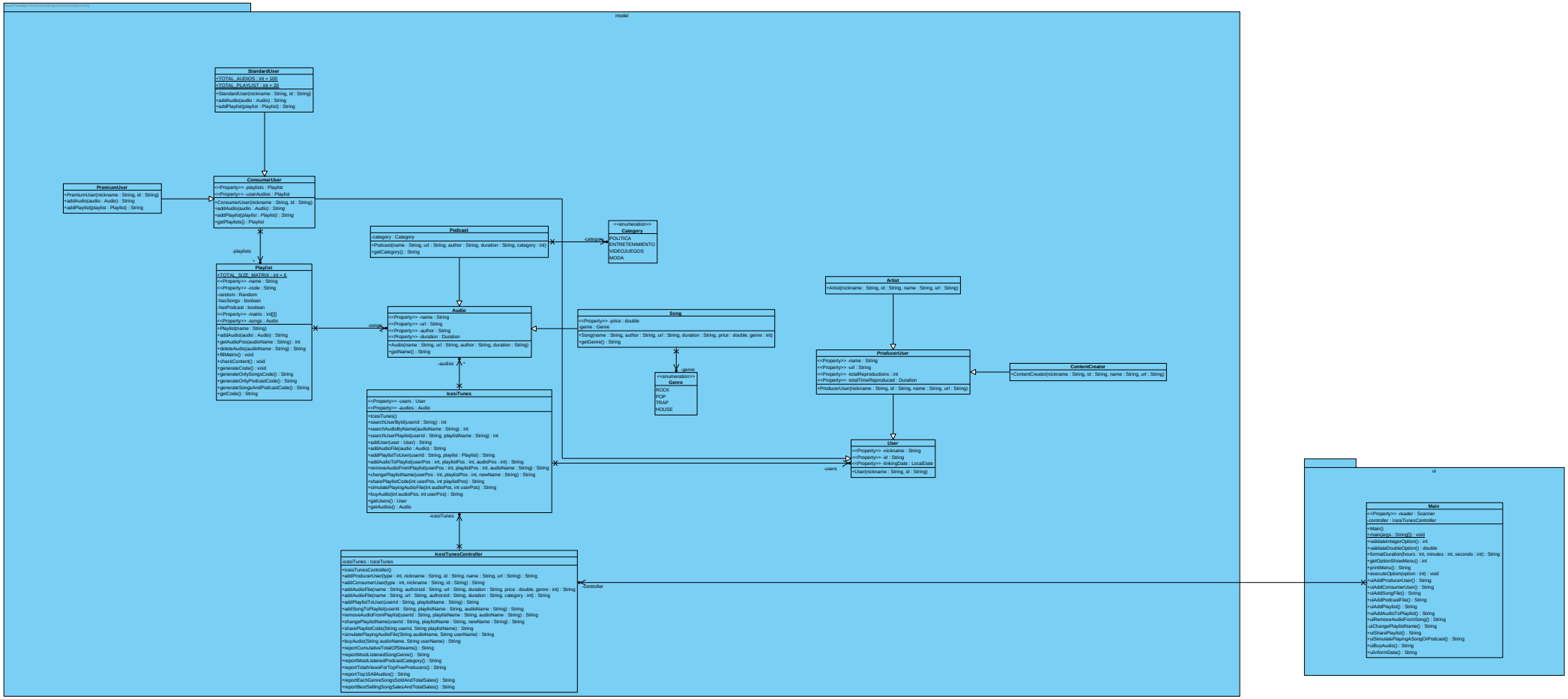
model
StandardUser
+TOTAL_AUDIOS : int = 100
+TOTAL_PLAYLIST : int = 20
+StandardUser(nickname : String, id : String)
+addAudio(audio : Audio) : String
+addPlaylist(playlist : Playlist) : String
PremiumUser
+PremiumUser(nickname : String, id : String)
+addAudio(audio : Audio) : String
+addPlaylist(playlist : Playlist) : String
ConsumerUser
<<Property>> -playlists : Playlist
<<Property>> -userAudios : Playlist
+ConsumerUser(nickname : String, id : String)
+addAudio(audio : Audio) : String
+addPlaylist(playlist : Playlist) : String
+getPlaylists() : Playlist
-playlists
*
Playlist
+TOTAL_SIZE_MATRIX : int = 6
<<Property>> -name : String
<<Property>> -code : String
-random : Random
-hasSongs : boolean
-hasPodcast : boolean
<<Property>> -matrix : int[][]
<<Property>> -songs : Audio
+Playlist(name : String)
+addAudio(audio : Audio) : String
+getAudioPos(audioName : String) : int
+deleteAudio(audioName : String) : String
+fillMatrix() : void
+checkContent() : void
+generateCode() : void
+generateOnlySongsCode() : String
+generateOnlyPodcastCode() : String
+generateSongsAndPodcastCode() : String
+getCode() : String
-songs
Podcast
-category : Category
+Podcast(name : String, url : String, author : String, duration : String, category : int)
+getCategory() : String
-category
<<enumeration>>
Category
POLITICA
ENTRETENIMIENTO
VIDEOJUEGOS
MODA
Audio
<<Property>> -name : String
<<Property>> -url : String
<<Property>> -author : String
<<Property>> -duration : Duration
+Audio(name : String, url : String, author : String, duration : String)
+getName() : String
-audios
*
Song
<<Property>> -price : double
-genre : Genre
+Song(name : String, author : String, url : String, duration : String, price : double, genre : int)
+getGenre() : String
-genre
<<enumeration>>
Genre
ROCK
POP
TRAP
HOUSE
Artist
+Artist(nickname : String, id : String, name : String, url : String)
ProducerUser
<<Property>> -name : String
<<Property>> -url : String
<<Property>> -totalReproductions : int
<<Property>> -totalTimeReproduced : Duration
+ProducerUser(nickname : String, id : String, name : String, url : String)
ContentCreator
+ContentCreator(nickname : String, id : String, name : String, url : String)
User
<<Property>> -nickname : String
<<Property>> -id : String
<<Property>> -linkingDate : LocalDate
+User(nickname : String, id : String)
-users
IcesiTunes
<<Property>> -users : User
<<Property>> -audios : Audio
+IcesiTunes()
+searchUserById(userId : String) : int
+searchAudioByName(audioName : String) : int
+searchUserPlaylist(userId : String, playlistName : String) : int
+addUser(user : User) : String
+addAudioFile(audio : Audio) : String
+addPlaylistToUser(userId : String, playlist : Playlist) : String
+addAudioToPlaylist(userPos : int, playlistPos : int, audioPos : int) : String
+removeAudioFromPlaylist(userPos : int, playlistPos : int, audioName : String) : String
+changePlaylistName(userPos : int, playlistPos : int, newName : String) : String
+sharePlaylistCode(int userPos, int playlistPos) : String
+simulatePlayingAudioFile(int audioPos, int userPos) : String
+buyAudio(int audioPos, int userPos) : String
+getUsers() : User
+getAudios() : Audio
-IcesiTunes
IcesiTunesController
-icesiTunes : IcesiTunes
+IcesiTunesController()
+addProducerUser(type : int, nickname : String, id : String, name : String, url : String) : String
+addConsumerUser(type : int, nickname : String, id : String) : String
+addAudioFile(name : String, authorId : String, url : String, duration : String, price : double, genre : int) : String
+addAudioFile(name : String, url : String, authorId : String, duration : String, category : int) : String
+addPlaylistToUser(userId : String, playlistName : String) : String
+addSongToPlaylist(userId : String, playlistName : String, audioName : String) : String
+removeAudioFromPlaylist(userId : String, playlistName : String, audioName : String) : String
+changePlaylistName(userId : String, playlistName : String, newName : String) : String
+sharePlaylistCode(String userId, String playlistName) : String
+simulatePlayingAudioFile(String audioName, String userName) : String
+buyAudio(String audioName, String userName) : String
+reportCumulativeTotalOfStreams() : String
+reportMostListenedSongGenre() : String
+reportMostListenedPodcastCategory() : String
+reportTotalViewsForTopFiveProducers() : String
+reportTopXAllAudios() : String
+reportEachGenreSongsSoldAndTotalSales() : String
+reportBestSellingSongSalesAndTotalSales() : String
-controller
ui
Main
<<Property>> -reader : Scanner
-controller : IcesiTunesController
+Main()
+main(args : String[]) : void
+validateIntegerOption() : int
+validateDoubleOption() : double
+formatDuration(hours : int, minutes : int, seconds : int) : String
+getOptionShowMenu() : int
+printMenu() : String
+executeOption(option : int) : void
+uiAddProducerUser() : String
+uiAddConsumerUser() : String
+uiAddSongFile() : String
+uiAddPodcastFile() : String
+uiAddPlaylist() : String
+uiAddAudioToPlaylist() : String
+uiRemoveAudioFromSong() : String
+uiChangePlaylistName() : String
+uiSharePlaylist() : String
+uiSimulatePlayingASongOrPodcast() : String
+uiBuyAudio() : String
+uiInformData() : String