Audio Collection

Generated by Doxygen 1.15.0

1 Directory Hierarchy 1

1.1 Directories . . . 1

2 Namespace Index 7

2.1 Namespace List . . . 7

3 Hierarchical Index 9

3.1 Class Hierarchy . . . 9

4 Class Index 11

4.1 Class List . . . 11

5 File Index 13

5.1 File List . . . 13

6 Directory Documentation 15

6.1 audio_collection/MainEntities/Albums Directory Reference . . . 15

6.2 audio_collection/MainEntities/Artists Directory Reference . . . 15

6.3 audio_collection Directory Reference . . . 15

6.4 audio_collection/Authentication Directory Reference . . . 16

6.5 audio_collection/Playlists/Collections Directory Reference . . . 16

6.6 audio_collection/Community Directory Reference . . . 16

6.7 audio_collection/Exceptions Directory Reference . . . 16

6.8 audio_collection/IdManage Directory Reference . . . 17

6.9 audio_collection/MainEntities Directory Reference . . . 17

6.10 audio_collection/Playback Directory Reference . . . 17

6.11 audio_collection/Playlists Directory Reference . . . 17

6.12 audio_collection/Subscription Directory Reference . . . 18

6.13 audio_collection/Tests Directory Reference . . . 18

6.14 audio_collection/UserManage Directory Reference . . . 18

7 Namespace Documentation 19

7.1 audio_collection Namespace Reference . . . 19

7.2 audio_collection.Authentication Namespace Reference . . . 19

7.3 audio_collection.Authentication.log_in Namespace Reference . . . 19

7.4 audio_collection.Authentication.register Namespace Reference . . . 20

7.5 audio_collection.Community Namespace Reference . . . 20

7.6 audio_collection.Community.comment Namespace Reference . . . 20

7.7 audio_collection.Community.like Namespace Reference . . . 20

7.8 audio_collection.Community.rating Namespace Reference . . . 20

7.9 audio_collection.Exceptions Namespace Reference . . . 20

7.10 audio_collection.Exceptions.date_error Namespace Reference . . . 21

7.11 audio_collection.Exceptions.equalizer_settings_error Namespace Reference . . . 21

7.12 audio_collection.Exceptions.invalid_username_error Namespace Reference . . . 21

7.13 audio_collection.Exceptions.login_error Namespace Reference 21
7.14 audio_collection.Exceptions.playlist_deleting_error Namespace Reference 21
7.15 audio_collection.Exceptions.rating_error Namespace Reference 21
7.16 audio_collection.Exceptions.register_error Namespace Reference 22
7.17 audio_collection.Exceptions.resources_error Namespace Reference 22
7.18 audio_collection.Exceptions.ticket_selling_error Namespace Reference 22
7.19 audio_collection.Exceptions.track_adding_error Namespace Reference 22
7.20 audio_collection.Exceptions.type_error Namespace Reference 22
7.21 audio_collection.Exceptions.weak_password_error Namespace Reference 22
7.22 audio_collection.IdManage Namespace Reference 23
7.23 audio_collection.IdManage.album_id Namespace Reference 23
7.24 audio_collection.IdManage.id_generator Namespace Reference 23
7.25 audio_collection.IdManage.ticket_id Namespace Reference 23
7.26 audio_collection.IdManage.track_id Namespace Reference 23
7.27 audio_collection.IdManage.user_id Namespace Reference 23
7.28 audio_collection.main Namespace Reference 24
7.29 audio_collection.MainEntities Namespace Reference 24
7.30 audio_collection.MainEntities.Albums Namespace Reference 24
7.31 audio_collection.MainEntities.Albums.album Namespace Reference 24
7.32 audio_collection.MainEntities.Albums.album_definer Namespace Reference 24
7.33 audio_collection.MainEntities.Albums.ep Namespace Reference 25
7.34 audio_collection.MainEntities.Albums.live_album Namespace Reference 25
7.35 audio_collection.MainEntities.Albums.single Namespace Reference 25
7.36 audio_collection.MainEntities.Albums.studio_album Namespace Reference 25
7.37 audio_collection.MainEntities.Artists Namespace Reference 25
7.38 audio_collection.MainEntities.Artists.artist Namespace Reference 25
7.39 audio_collection.MainEntities.Artists.band Namespace Reference 26
7.40 audio_collection.MainEntities.Artists.concert Namespace Reference 26
7.41 audio_collection.MainEntities.Artists.musician Namespace Reference 26
7.42 audio_collection.MainEntities.Artists.ticket Namespace Reference 26
7.43 audio_collection.MainEntities.Artists.tour Namespace Reference 26
7.44 audio_collection.MainEntities.Artists.track_lyrics Namespace Reference 26
7.45 audio_collection.MainEntities.city Namespace Reference 27
7.46 audio_collection.MainEntities.collaboration Namespace Reference 27
7.47 audio_collection.MainEntities.cover Namespace Reference 27
7.48 audio_collection.MainEntities.date Namespace Reference 27
7.49 audio_collection.MainEntities.duration Namespace Reference 27
7.50 audio_collection.MainEntities.genre Namespace Reference 27
7.51 audio_collection.MainEntities.label Namespace Reference 27
7.52 audio_collection.MainEntities.remix Namespace Reference 28
7.53 audio_collection.MainEntities.track Namespace Reference 28
7.54 audio_collection.Playback Namespace Reference 28

7.55 audio_collection.Playback.equalizer Namespace Reference . . . 28
7.56 audio_collection.Playback.queue Namespace Reference . . . 28
7.57 audio_collection.Playback.track_statistics Namespace Reference . . . 28
7.58 audio_collection.Playlists Namespace Reference . . . 29
7.59 audio_collection.Playlists.Collections Namespace Reference . . . 29
7.60 audio_collection.Playlists.Collections.collection Namespace Reference . . . 29
7.61 audio_collection.Playlists.Collections.genre_collection Namespace Reference . . . 29
7.62 audio_collection.Playlists.favourite Namespace Reference . . . 29
7.63 audio_collection.Playlists.favourite_tracks Namespace Reference . . . 29
7.64 audio_collection.Playlists.history Namespace Reference . . . 30
7.65 audio_collection.Playlists.media_library Namespace Reference . . . 30
7.66 audio_collection.Playlists.playlist Namespace Reference . . . 30
7.67 audio_collection.Subscription Namespace Reference . . . 30
7.68 audio_collection.Subscription.personal_account Namespace Reference . . . 30
7.69 audio_collection.Subscription.subscription Namespace Reference . . . 30
7.70 audio_collection.Tests Namespace Reference . . . 31
7.71 audio_collection.Tests.test_authentication Namespace Reference . . . 31
7.71.1 Function Documentation . . . 31
7.71.1.1 test_duplicate_registration() . . . 31
7.71.1.2 test_invalid_username() . . . 31
7.71.1.3 test_login_success() . . . 31
7.71.1.4 test_login_user_not_exist() . . . 31
7.71.1.5 test_login_wrong_password() . . . 32
7.71.1.6 test_registration() . . . 32
7.71.1.7 tmp_files() . . . 32
7.72 audio_collection.Tests.test_community Namespace Reference . . . 32
7.72.1 Function Documentation . . . 32
7.72.1.1 test_comment() . . . 32
7.72.1.2 test_rating() . . . 32
7.73 audio_collection.Tests.test_id_manage Namespace Reference . . . 32
7.74 audio_collection.Tests.test_main_entities Namespace Reference . . . 32
7.74.1 Function Documentation . . . 33
7.74.1.1 test_album() . . . 33
7.74.1.2 test_album_definer() . . . 33
7.74.1.3 test_band() . . . 33
7.74.1.4 test_city() . . . 33
7.74.1.5 test_duration() . . . 33
7.74.1.6 test_genre() . . . 33
7.74.1.7 test_label() . . . 33
7.74.1.8 test_live_album() . . . 33
7.74.1.9 test_lives() . . . 33
7.74.1.10 test_lyrics() . . . 33

7.74.1.11 test_musician() . . . 34
7.74.1.12 test_single() . . . 34
7.74.1.13 test_track() . . . 34
7.74.1.14 test_track_types() . . . 34
7.75 audio_collection.Tests.test_playback Namespace Reference . . . 34
7.75.1 Function Documentation . . . 34
7.75.1.1 test_queue() . . . 34
7.76 audio_collection.Tests.test_playlists Namespace Reference . . . 34
7.76.1 Function Documentation . . . 34
7.76.1.1 test_favourite() . . . 34
7.76.1.2 test_genre_collection() . . . 35
7.76.1.3 test_media() . . . 35
7.76.1.4 test_playlist() . . . 35
7.77 audio_collection.Tests.test_subscription Namespace Reference . . . 35
7.77.1 Function Documentation . . . 35
7.77.1.1 test_personal_account() . . . 35
7.77.1.2 test_subscription() . . . 35
7.78 audio_collection.Tests.test_user_manage Namespace Reference . . . 35
7.78.1 Function Documentation . . . 36
7.78.1.1 test_password() . . . 36
7.78.1.2 test_premium_user() . . . 36
7.78.1.3 test_user() . . . 36
7.78.1.4 test_user_profile() . . . 36
7.78.1.5 test_username() . . . 36
7.78.1.6 test_username_validator() . . . 36
7.79 audio_collection.UserManage Namespace Reference . . . 36
7.80 audio_collection.UserManage.password Namespace Reference . . . 36
7.81 audio_collection.UserManage.premium_user Namespace Reference . . . 37
7.82 audio_collection.UserManage.user Namespace Reference . . . 37
7.83 audio_collection.UserManage.user_profile Namespace Reference . . . 37
7.84 audio_collection.UserManage.username Namespace Reference . . . 37
7.85 audio_collection.UserManage.username_validator Namespace Reference . . . 37

8 Class Documentation **39**

8.1 audio_collection.MainEntities.Albums.album.Album Class Reference . . . 39
8.1.1 Detailed Description . . . 40
8.1.2 Constructor & Destructor Documentation . . . 40
8.1.2.1 __init__() . . . 40
8.1.3 Member Function Documentation . . . 40
8.1.3.1 add_rating() . . . 40
8.1.3.2 album_id() . . . 40
8.1.3.3 average_rating() . . . 40

8.1.3.4 genre() . . . 40
8.1.3.5 get_info() . . . 41
8.1.3.6 get_liked() . . . 41
8.1.3.7 label() . . . 41
8.1.3.8 likes() . . . 41
8.1.3.9 rating() . . . 41
8.1.3.10 title() . . . 41
8.1.3.11 total_duration() . . . 41
8.1.3.12 tracks() . . . 41
8.1.3.13 year() . . . 41
8.1.4 Member Data Documentation . . . 42
8.1.4.1 _genre . . . 42
8.1.4.2 _id . . . 42
8.1.4.3 _label . . . 42
8.1.4.4 _likes . . . 42
8.1.4.5 _max_ep_tracks . . . 42
8.1.4.6 _max_single_tracks . . . 42
8.1.4.7 _rating . . . 42
8.1.4.8 _title . . . 42
8.1.4.9 _tracks . . . 42
8.1.4.10 _year . . . 43
8.2 audio_collection.MainEntities.Albums.album_definer.AlbumDefiner Class Reference . . . 43
8.2.1 Detailed Description . . . 43
8.2.2 Member Function Documentation . . . 43
8.2.2.1 define() . . . 43
8.3 audio_collection.IdManage.album_id.AlbumId Class Reference . . . 43
8.3.1 Detailed Description . . . 44
8.3.2 Member Function Documentation . . . 44
8.3.2.1 generate_id() . . . 44
8.3.3 Member Data Documentation . . . 44
8.3.3.1 __album_id . . . 44
8.4 audio_collection.MainEntities.Artists.artist.Artist Class Reference . . . 44
8.4.1 Detailed Description . . . 45
8.4.2 Constructor & Destructor Documentation . . . 45
8.4.2.1 __init__() . . . 45
8.4.3 Member Function Documentation . . . 45
8.4.3.1 add_album() . . . 45
8.4.3.2 albums() . . . 46
8.4.3.3 followers() . . . 46
8.4.3.4 get_album_info() . . . 46
8.4.3.5 get_albums_by_year() . . . 46
8.4.3.6 get_followed() . . . 46

8.4.3.7 name() . . . 46
8.4.3.8 remove_album() . . . 46
8.4.3.9 total_likes() . . . 46
8.4.3.10 total_tracks() . . . 47
8.4.4 Member Data Documentation . . . 47
8.4.4.1 _albums . . . 47
8.4.4.2 _followers . . . 47
8.4.4.3 _name . . . 47
8.5 audio_collection.MainEntities.Artists.band.Band Class Reference . . . 47
8.5.1 Detailed Description . . . 48
8.5.2 Constructor & Destructor Documentation . . . 48
8.5.2.1 __init__() . . . 48
8.5.3 Member Function Documentation . . . 49
8.5.3.1 get_members_info() . . . 49
8.5.3.2 musicians() . . . 49
8.5.4 Member Data Documentation . . . 49
8.5.4.1 __musicians . . . 49
8.6 audio_collection.MainEntities.city.City Class Reference . . . 49
8.6.1 Detailed Description . . . 49
8.6.2 Constructor & Destructor Documentation . . . 50
8.6.2.1 __init__() . . . 50
8.6.3 Member Function Documentation . . . 50
8.6.3.1 __str__() . . . 50
8.6.4 Member Data Documentation . . . 50
8.6.4.1 city . . . 50
8.7 audio_collection.MainEntities.collaboration.Collaboration Class Reference . . . 50
8.7.1 Detailed Description . . . 51
8.7.2 Constructor & Destructor Documentation . . . 51
8.7.2.1 __init__() . . . 51
8.7.3 Member Function Documentation . . . 51
8.7.3.1 artists() . . . 51
8.7.4 Member Data Documentation . . . 52
8.7.4.1 __artists . . . 52
8.8 audio_collection.Playlists.Collections.collection.Collection Class Reference . . . 52
8.8.1 Detailed Description . . . 52
8.8.2 Constructor & Destructor Documentation . . . 52
8.8.2.1 __init__() . . . 52
8.8.3 Member Function Documentation . . . 53
8.8.3.1 playlist() . . . 53
8.8.4 Member Data Documentation . . . 53
8.8.4.1 __playlist . . . 53
8.9 audio_collection.Community.comment.Comment Class Reference . . . 53

8.9.1 Detailed Description . . . 53
8.9.2 Constructor & Destructor Documentation . . . 53
8.9.2.1 __init__() . . . 53
8.9.3 Member Function Documentation . . . 54
8.9.3.1 __str__() . . . 54
8.9.3.2 edit_comment() . . . 54
8.9.4 Member Data Documentation . . . 54
8.9.4.1 __comment . . . 54
8.10 audio_collection.MainEntities.Artists.concert.Concert Class Reference . . . 54
8.10.1 Detailed Description . . . 55
8.10.2 Constructor & Destructor Documentation . . . 55
8.10.2.1 __init__() . . . 55
8.10.3 Member Function Documentation . . . 55
8.10.3.1 artist() . . . 55
8.10.3.2 city() . . . 55
8.10.3.3 date() . . . 55
8.10.3.4 sell_ticket() . . . 55
8.10.3.5 ticket_amount() . . . 56
8.10.3.6 ticket_price() . . . 56
8.10.4 Member Data Documentation . . . 56
8.10.4.1 __artist . . . 56
8.10.4.2 __city . . . 56
8.10.4.3 __date . . . 56
8.10.4.4 __ticket_amount . . . 56
8.10.4.5 __ticket_price . . . 56
8.11 audio_collection.MainEntities.cover.Cover Class Reference . . . 56
8.11.1 Detailed Description . . . 57
8.11.2 Constructor & Destructor Documentation . . . 57
8.11.2.1 __init__() . . . 57
8.11.3 Member Function Documentation . . . 58
8.11.3.1 cover_author() . . . 58
8.11.4 Member Data Documentation . . . 58
8.11.4.1 __cover_author . . . 58
8.12 audio_collection.MainEntities.date.Date Class Reference . . . 58
8.12.1 Detailed Description . . . 58
8.12.2 Constructor & Destructor Documentation . . . 58
8.12.2.1 __init__() . . . 58
8.12.3 Member Function Documentation . . . 59
8.12.3.1 __str__() . . . 59
8.12.4 Member Data Documentation . . . 59
8.12.4.1 day . . . 59
8.12.4.2 month . . . 59

8.12.4.3 year . . . 59
8.13 audio_collection.Exceptions.date_error.DateError Class Reference . . . 59
8.13.1 Detailed Description . . . 59
8.13.2 Constructor & Destructor Documentation . . . 60
8.13.2.1 __init__() . . . 60
8.14 audio_collection.MainEntities.duration.Duration Class Reference . . . 60
8.14.1 Detailed Description . . . 60
8.14.2 Constructor & Destructor Documentation . . . 60
8.14.2.1 __init__() . . . 60
8.14.3 Member Function Documentation . . . 60
8.14.3.1 duration() . . . 60
8.14.4 Member Data Documentation . . . 61
8.14.4.1 __duration . . . 61
8.15 audio_collection.MainEntities.Albums.ep.Ep Class Reference . . . 61
8.15.1 Detailed Description . . . 62
8.15.2 Constructor & Destructor Documentation . . . 62
8.15.2.1 __init__() . . . 62
8.16 audio_collection.Playback.equalizer.Equalizer Class Reference . . . 62
8.16.1 Detailed Description . . . 63
8.16.2 Constructor & Destructor Documentation . . . 63
8.16.2.1 __init__() . . . 63
8.16.3 Member Function Documentation . . . 63
8.16.3.1 __str__() . . . 63
8.16.3.2 adjust() . . . 63
8.16.4 Member Data Documentation . . . 64
8.16.4.1 __bass . . . 64
8.16.4.2 __mid . . . 64
8.16.4.3 __treble . . . 64
8.17 audio_collection.Exceptions.equalizer_settings_error.EqualizerSettingsError Class Reference . . . 64
8.17.1 Detailed Description . . . 64
8.17.2 Constructor & Destructor Documentation . . . 64
8.17.2.1 __init__() . . . 64
8.18 audio_collection.Playlists.favourite.Favourite Class Reference . . . 65
8.18.1 Detailed Description . . . 65
8.18.2 Constructor & Destructor Documentation . . . 65
8.18.2.1 __init__() . . . 65
8.18.3 Member Function Documentation . . . 65
8.18.3.1 add() . . . 65
8.18.3.2 objects() . . . 66
8.18.3.3 remove() . . . 66
8.18.4 Member Data Documentation . . . 66
8.18.4.1 _objects . . . 66

8.19 audio_collection.Playlists.favourite_tracks.FavouriteTracks Class Reference . . . 66
8.19.1 Detailed Description . . . 67
8.19.2 Constructor & Destructor Documentation . . . 67
8.19.2.1 __init__() . . . 67
8.19.3 Member Function Documentation . . . 68
8.19.3.1 add_track() . . . 68
8.19.3.2 delete_track() . . . 68
8.19.3.3 tracks() . . . 68
8.20 audio_collection.MainEntities.genre.Genre Class Reference . . . 68
8.20.1 Detailed Description . . . 69
8.20.2 Constructor & Destructor Documentation . . . 69
8.20.2.1 __init__() . . . 69
8.20.3 Member Function Documentation . . . 69
8.20.3.1 genre_name() . . . 69
8.20.4 Member Data Documentation . . . 69
8.20.4.1 __genre_name . . . 69
8.21 audio_collection.Playlists.Collections.genre_collection.GenreCollection Class Reference . . . 69
8.21.1 Detailed Description . . . 70
8.21.2 Constructor & Destructor Documentation . . . 70
8.21.2.1 __init__() . . . 70
8.21.3 Member Function Documentation . . . 70
8.21.3.1 genre() . . . 70
8.21.3.2 tracks() . . . 70
8.21.4 Member Data Documentation . . . 71
8.21.4.1 __genre . . . 71
8.21.4.2 __tracks . . . 71
8.22 audio_collection.Playlists.history.History Class Reference . . . 71
8.22.1 Detailed Description . . . 71
8.22.2 Constructor & Destructor Documentation . . . 71
8.22.2.1 __init__() . . . 71
8.22.3 Member Function Documentation . . . 71
8.22.3.1 __str__() . . . 71
8.22.3.2 append() . . . 72
8.22.4 Member Data Documentation . . . 72
8.22.4.1 __tracks . . . 72
8.23 audio_collection.IdManage.id_generator.IdGenerator Class Reference . . . 72
8.23.1 Detailed Description . . . 72
8.23.2 Member Function Documentation . . . 73
8.23.2.1 generate_id() . . . 73
8.23.3 Member Data Documentation . . . 73
8.23.3.1 __private_id . . . 73
8.24 audio_collection.Exceptions.invalid_username_error.InvalidUsernameError Class Reference . . . 73

8.24.1 Detailed Description . . . 73
8.24.2 Constructor & Destructor Documentation . . . 73
8.24.2.1 __init__() . . . 73
8.25 audio_collection.MainEntities.label.Label Class Reference . . . 74
8.25.1 Detailed Description . . . 74
8.25.2 Constructor & Destructor Documentation . . . 74
8.25.2.1 __init__() . . . 74
8.25.3 Member Function Documentation . . . 74
8.25.3.1 add_artist() . . . 74
8.25.3.2 artists() . . . 74
8.25.3.3 country() . . . 75
8.25.3.4 founded_year() . . . 75
8.25.3.5 get_artist_info() . . . 75
8.25.3.6 name() . . . 75
8.25.3.7 remove_artist() . . . 75
8.25.4 Member Data Documentation . . . 75
8.25.4.1 __artists . . . 75
8.25.4.2 __country . . . 75
8.25.4.3 __founded_year . . . 76
8.25.4.4 __name . . . 76
8.26 audio_collection.Community.like.Like Class Reference . . . 76
8.26.1 Detailed Description . . . 76
8.26.2 Constructor & Destructor Documentation . . . 76
8.26.2.1 __init__() . . . 76
8.26.3 Member Function Documentation . . . 76
8.26.3.1 __repr__() . . . 76
8.26.4 Member Data Documentation . . . 77
8.26.4.1 target . . . 77
8.27 audio_collection.MainEntities.Albums.live_album.LiveAlbum Class Reference . . . 77
8.27.1 Detailed Description . . . 78
8.27.2 Constructor & Destructor Documentation . . . 78
8.27.2.1 __init__() . . . 78
8.27.3 Member Function Documentation . . . 78
8.27.3.1 city() . . . 78
8.27.4 Member Data Documentation . . . 79
8.27.4.1 __city . . . 79
8.28 audio_collection.Authentication.log_in.LogIn Class Reference . . . 79
8.28.1 Detailed Description . . . 79
8.28.2 Member Function Documentation . . . 79
8.28.2.1 log_in() . . . 79
8.29 audio_collection.Exceptions.login_error.LogInError Class Reference . . . 80
8.29.1 Detailed Description . . . 80

8.29.2 Constructor & Destructor Documentation . . . 80
8.29.2.1 __init__() . . . 80
8.30 audio_collection.Playlists.media_library.MediaLibrary Class Reference . . . 80
8.30.1 Detailed Description . . . 81
8.30.2 Constructor & Destructor Documentation . . . 81
8.30.2.1 __init__() . . . 81
8.30.3 Member Function Documentation . . . 81
8.30.3.1 add_favourite_track() . . . 81
8.30.3.2 add_to_library() . . . 81
8.30.3.3 albums() . . . 81
8.30.3.4 artists() . . . 82
8.30.3.5 favourite_tracks() . . . 82
8.30.3.6 pin_album() . . . 82
8.30.3.7 pin_artist() . . . 82
8.30.3.8 pin_playlist() . . . 82
8.30.3.9 playlists() . . . 82
8.30.4 Member Data Documentation . . . 83
8.30.4.1 __albums . . . 83
8.30.4.2 __artists . . . 83
8.30.4.3 __favourite_tracks . . . 83
8.30.4.4 __playlists . . . 83
8.31 audio_collection.MainEntities.Artists.musician.Musician Class Reference . . . 83
8.31.1 Detailed Description . . . 83
8.31.2 Constructor & Destructor Documentation . . . 84
8.31.2.1 __init__() . . . 84
8.31.3 Member Function Documentation . . . 84
8.31.3.1 birth_year() . . . 84
8.31.3.2 get_info() . . . 84
8.31.3.3 instruments() . . . 84
8.31.3.4 name() . . . 84
8.31.4 Member Data Documentation . . . 84
8.31.4.1 __birth_year . . . 84
8.31.4.2 __instruments . . . 85
8.31.4.3 __name . . . 85
8.32 audio_collection.UserManage.password.Password Class Reference . . . 85
8.32.1 Detailed Description . . . 85
8.32.2 Constructor & Destructor Documentation . . . 85
8.32.2.1 __init__() . . . 85
8.32.3 Member Function Documentation . . . 86
8.32.3.1 __is_strong() . . . 86
8.32.3.2 __str__() . . . 86
8.32.3.3 change() . . . 86

8.32.3.4 get_password_only_for_reg() . . . 86
8.32.3.5 verify() . . . 86
8.32.4 Member Data Documentation . . . 87
8.32.4.1 __password . . . 87
8.33 audio_collection.Subscription.personal_account.PersonalAccount Class Reference . . . 87
8.33.1 Detailed Description . . . 87
8.33.2 Constructor & Destructor Documentation . . . 87
8.33.2.1 __init__() . . . 87
8.33.3 Member Function Documentation . . . 88
8.33.3.1 add_to_amount() . . . 88
8.33.3.2 amount() . . . 88
8.33.3.3 subtract_from_amount() . . . 88
8.33.4 Member Data Documentation . . . 88
8.33.4.1 __amount . . . 88
8.34 audio_collection.Playlists.playlist.Playlist Class Reference . . . 88
8.34.1 Detailed Description . . . 89
8.34.2 Constructor & Destructor Documentation . . . 89
8.34.2.1 __init__() . . . 89
8.34.3 Member Function Documentation . . . 90
8.34.3.1 add_track() . . . 90
8.34.3.2 current_track() . . . 90
8.34.3.3 delete_track() . . . 90
8.34.3.4 duration() . . . 90
8.34.3.5 get_formated_duration() . . . 90
8.34.3.6 history() . . . 91
8.34.3.7 name() . . . 91
8.34.3.8 next_track() . . . 91
8.34.3.9 playlist_tracks() . . . 91
8.34.3.10 queue() . . . 91
8.34.3.11 tracks() . . . 91
8.34.4 Member Data Documentation . . . 91
8.34.4.1 __history . . . 91
8.34.4.2 __name . . . 92
8.34.4.3 __queue . . . 92
8.34.4.4 _current_track . . . 92
8.34.4.5 _duration . . . 92
8.34.4.6 _tracks . . . 92
8.34.4.7 current_track . . . 92
8.35 audio_collection.Exceptions.playlist_deleting_error.PlaylistDeleteError Class Reference . . . 92
8.35.1 Detailed Description . . . 93
8.35.2 Constructor & Destructor Documentation . . . 93
8.35.2.1 __init__() . . . 93

8.36 audio_collection.UserManage.premium_user.PremiumUser Class Reference . . . 93
8.36.1 Detailed Description . . . 94
8.36.2 Constructor & Destructor Documentation . . . 94
8.36.2.1 __init__() . . . 94
8.36.3 Member Function Documentation . . . 94
8.36.3.1 collections() . . . 94
8.36.3.2 create_collection() . . . 95
8.36.3.3 extend_subscription() . . . 95
8.36.3.4 months() . . . 95
8.36.4 Member Data Documentation . . . 95
8.36.4.1 __collections . . . 95
8.36.4.2 __max_playlists . . . 95
8.36.4.3 __playlists . . . 95
8.36.4.4 __subscription . . . 95
8.37 audio_collection.Playback.queue.Queue Class Reference . . . 96
8.37.1 Detailed Description . . . 96
8.37.2 Constructor & Destructor Documentation . . . 96
8.37.2.1 __init__() . . . 96
8.37.3 Member Function Documentation . . . 96
8.37.3.1 __len__() . . . 96
8.37.3.2 add_to_queue() . . . 96
8.37.3.3 clear_queue() . . . 97
8.37.3.4 queue_next() . . . 97
8.37.3.5 remove_from_queue() . . . 97
8.37.3.6 show_queue() . . . 97
8.37.4 Member Data Documentation . . . 97
8.37.4.1 __queue . . . 97
8.38 audio_collection.Community.rating.Rating Class Reference . . . 98
8.38.1 Detailed Description . . . 98
8.38.2 Constructor & Destructor Documentation . . . 98
8.38.2.1 __init__() . . . 98
8.38.3 Member Function Documentation . . . 98
8.38.3.1 __int__() . . . 98
8.38.4 Member Data Documentation . . . 98
8.38.4.1 __rating . . . 98
8.39 audio_collection.Exceptions.rating_error.RatingError Class Reference . . . 99
8.39.1 Detailed Description . . . 99
8.39.2 Constructor & Destructor Documentation . . . 99
8.39.2.1 __init__() . . . 99
8.40 audio_collection.Authentication.register.Register Class Reference . . . 99
8.40.1 Detailed Description . . . 99
8.40.2 Member Function Documentation . . . 100

8.40.2.1 register_user() . . . 100
8.40.2.2 set_password() . . . 100
8.41 audio_collection.Exceptions.register_error.RegisterError Class Reference . . . 100
8.41.1 Detailed Description . . . 101
8.41.2 Constructor & Destructor Documentation . . . 101
8.41.2.1 __init__() . . . 101
8.42 audio_collection.MainEntities.remix.Remix Class Reference . . . 101
8.42.1 Detailed Description . . . 102
8.42.2 Constructor & Destructor Documentation . . . 102
8.42.2.1 __init__() . . . 102
8.42.3 Member Function Documentation . . . 102
8.42.3.1 author() . . . 102
8.42.4 Member Data Documentation . . . 102
8.42.4.1 __author . . . 102
8.43 audio_collection.Exceptions.resources_error.ResourcesError Class Reference . . . 103
8.43.1 Detailed Description . . . 103
8.43.2 Constructor & Destructor Documentation . . . 103
8.43.2.1 __init__() . . . 103
8.44 audio_collection.MainEntities.Albums.single.Single Class Reference . . . 103
8.44.1 Detailed Description . . . 104
8.44.2 Constructor & Destructor Documentation . . . 104
8.44.2.1 __init__() . . . 104
8.45 audio_collection.MainEntities.Albums.studio_album.StudioAlbum Class Reference . . . 105
8.45.1 Detailed Description . . . 106
8.45.2 Constructor & Destructor Documentation . . . 106
8.45.2.1 __init__() . . . 106
8.46 audio_collection.Subscription.subscription.Subscription Class Reference . . . 106
8.46.1 Detailed Description . . . 106
8.46.2 Constructor & Destructor Documentation . . . 107
8.46.2.1 __init__() . . . 107
8.46.3 Member Function Documentation . . . 107
8.46.3.1 extend_subscription() . . . 107
8.46.3.2 month_cost() . . . 107
8.46.3.3 months() . . . 107
8.46.3.4 stop_subscription() . . . 107
8.46.4 Member Data Documentation . . . 107
8.46.4.1 __month_cost . . . 107
8.46.4.2 __months . . . 108
8.47 audio_collection.MainEntities.Artists.ticket.Ticket Class Reference . . . 108
8.47.1 Detailed Description . . . 108
8.47.2 Constructor & Destructor Documentation . . . 108
8.47.2.1 __init__() . . . 108

8.47.3 Member Function Documentation . . . 109
8.47.3.1 assign_seat() . . . 109
8.47.3.2 concert() . . . 109
8.47.3.3 get_ticket_info() . . . 109
8.47.3.4 is_used() . . . 109
8.47.3.5 price() . . . 109
8.47.3.6 seat_number() . . . 109
8.47.3.7 ticket_id() . . . 109
8.47.3.8 use_ticket() . . . 110
8.47.4 Member Data Documentation . . . 110
8.47.4.1 __concert . . . 110
8.47.4.2 __is_used . . . 110
8.47.4.3 __price . . . 110
8.47.4.4 __seat_number . . . 110
8.47.4.5 __ticket_id . . . 110
8.48 audio_collection.IdManage.ticket_id.TicketId Class Reference . . . 110
8.48.1 Detailed Description . . . 111
8.48.2 Member Function Documentation . . . 111
8.48.2.1 generate_id() . . . 111
8.48.3 Member Data Documentation . . . 111
8.48.3.1 __ticket_id . . . 111
8.49 audio_collection.Exceptions.ticket_selling_error.TicketSellingError Class Reference . . . 111
8.49.1 Detailed Description . . . 112
8.49.2 Constructor & Destructor Documentation . . . 112
8.49.2.1 __init__() . . . 112
8.50 audio_collection.MainEntities.Artists.tour.Tour Class Reference . . . 112
8.50.1 Detailed Description . . . 112
8.50.2 Constructor & Destructor Documentation . . . 113
8.50.2.1 __init__() . . . 113
8.50.3 Member Function Documentation . . . 113
8.50.3.1 artist() . . . 113
8.50.3.2 cities() . . . 113
8.50.3.3 concerts() . . . 113
8.50.3.4 ticket_amount() . . . 113
8.50.4 Member Data Documentation . . . 113
8.50.4.1 __artist . . . 113
8.50.4.2 __cities . . . 113
8.50.4.3 __concerts . . . 114
8.50.4.4 __ticket_amount . . . 114
8.51 audio_collection.MainEntities.track.Track Class Reference . . . 114
8.51.1 Detailed Description . . . 115
8.51.2 Constructor & Destructor Documentation . . . 115

8.51.2.1 __init__() . . . 115
8.51.3 Member Function Documentation . . . 115
8.51.3.1 add_comment() . . . 115
8.51.3.2 add_like() . . . 115
8.51.3.3 add_lyrics() . . . 115
8.51.3.4 add_rate() . . . 116
8.51.3.5 adjust_equalizer() . . . 116
8.51.3.6 duration() . . . 116
8.51.3.7 equalizer() . . . 116
8.51.3.8 formated_duration() . . . 116
8.51.3.9 genre() . . . 116
8.51.3.10 get_total_comments() . . . 117
8.51.3.11 likes() . . . 117
8.51.3.12 lyrics() . . . 117
8.51.3.13 normalized_name() . . . 117
8.51.3.14 play() . . . 117
8.51.3.15 statistics() . . . 117
8.51.3.16 title() . . . 117
8.51.3.17 track_id() . . . 118
8.51.4 Member Data Documentation . . . 118
8.51.4.1 __duration . . . 118
8.51.4.2 __equalizer . . . 118
8.51.4.3 __genre . . . 118
8.51.4.4 __lyrics . . . 118
8.51.4.5 __statistics . . . 118
8.51.4.6 __title . . . 118
8.51.4.7 __track_id . . . 118
8.52 audio_collection.Exceptions.track_adding_error.TrackAddingError Class Reference . . . 119
8.52.1 Detailed Description . . . 119
8.52.2 Constructor & Destructor Documentation . . . 119
8.52.2.1 __init__() . . . 119
8.53 audio_collection.IdManage.track_id.TrackId Class Reference . . . 119
8.53.1 Detailed Description . . . 120
8.53.2 Member Function Documentation . . . 120
8.53.2.1 generate_id() . . . 120
8.53.3 Member Data Documentation . . . 120
8.53.3.1 __track_id . . . 120
8.54 audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics Class Reference . . . 120
8.54.1 Constructor & Destructor Documentation . . . 121
8.54.1.1 __init__() . . . 121
8.54.2 Member Function Documentation . . . 121
8.54.2.1 lyrics() . . . 121

8.54.2.2 upload_lyrics() . . . 121
8.54.3 Member Data Documentation . . . 121
8.54.3.1 __lyrics . . . 121
8.55 audio_collection.Playback.track_statistics.TrackStatistics Class Reference . . . 121
8.55.1 Detailed Description . . . 122
8.55.2 Constructor & Destructor Documentation . . . 122
8.55.2.1 __init__() . . . 122
8.55.3 Member Function Documentation . . . 122
8.55.3.1 add_comment() . . . 122
8.55.3.2 add_like() . . . 122
8.55.3.3 add_rating() . . . 123
8.55.3.4 add_stream() . . . 123
8.55.3.5 clear_stats() . . . 123
8.55.3.6 comments() . . . 123
8.55.3.7 likes() . . . 123
8.55.3.8 most_recent_comment() . . . 123
8.55.3.9 rating() . . . 123
8.55.3.10 ratings() . . . 124
8.55.3.11 remove_comment() . . . 124
8.55.3.12 remove_like() . . . 124
8.55.3.13 stats() . . . 124
8.55.3.14 streams() . . . 124
8.55.3.15 total_comments() . . . 124
8.55.3.16 total_likes() . . . 125
8.55.3.17 total_ratings() . . . 125
8.55.4 Member Data Documentation . . . 125
8.55.4.1 __comments . . . 125
8.55.4.2 __likes . . . 125
8.55.4.3 __ratings . . . 125
8.55.4.4 __streams . . . 125
8.55.4.5 rating . . . 125
8.56 audio_collection.Exceptions.type_error.TypeError Class Reference . . . 126
8.56.1 Detailed Description . . . 126
8.56.2 Constructor & Destructor Documentation . . . 126
8.56.2.1 __init__() . . . 126
8.57 audio_collection.UserManage.user.User Class Reference . . . 126
8.57.1 Detailed Description . . . 127
8.57.2 Constructor & Destructor Documentation . . . 128
8.57.2.1 __init__() . . . 128
8.57.3 Member Function Documentation . . . 128
8.57.3.1 add_to_amount() . . . 128
8.57.3.2 amount() . . . 128

8.57.3.3 buy_subscription() . . . 128
8.57.3.4 buy_ticket() . . . 128
8.57.3.5 comment_track() . . . 129
8.57.3.6 create_playlist() . . . 129
8.57.3.7 delete_playlist() . . . 129
8.57.3.8 favourite_tracks() . . . 129
8.57.3.9 like() . . . 129
8.57.3.10 likes() . . . 130
8.57.3.11 media() . . . 130
8.57.3.12 playlists() . . . 130
8.57.3.13 profile() . . . 130
8.57.3.14 rate_track() . . . 130
8.57.3.15 update_bio() . . . 130
8.57.3.16 username() . . . 130
8.57.4 Member Data Documentation . . . 131
8.57.4.1 __amount . . . 131
8.57.4.2 __comments . . . 131
8.57.4.3 __favourite_tracks . . . 131
8.57.4.4 __likes . . . 131
8.57.4.5 __max_playlists . . . 131
8.57.4.6 __media . . . 131
8.57.4.7 __profile . . . 131
8.57.4.8 __subscription . . . 131
8.57.4.9 __tickets . . . 131
8.57.4.10 __username . . . 131
8.57.4.11 _user_id . . . 132
8.58 audio_collection.IdManage.user_id.UserId Class Reference . . . 132
8.58.1 Detailed Description . . . 132
8.58.2 Member Function Documentation . . . 132
8.58.2.1 generate_id() . . . 132
8.58.3 Member Data Documentation . . . 133
8.58.3.1 __user_id . . . 133
8.59 audio_collection.UserManage.username.Username Class Reference . . . 133
8.59.1 Detailed Description . . . 133
8.59.2 Constructor & Destructor Documentation . . . 133
8.59.2.1 __init__() . . . 133
8.59.3 Member Function Documentation . . . 133
8.59.3.1 __str__() . . . 133
8.59.3.2 username() . . . 134
8.59.4 Member Data Documentation . . . 134
8.59.4.1 __username . . . 134
8.60 audio_collection.UserManage.username_validator.UsernameValidator Class Reference . . . 134

8.60.1 Detailed Description . . . 134
8.60.2 Constructor & Destructor Documentation . . . 134
8.60.2.1 __init__() . . . 134
8.60.3 Member Function Documentation . . . 135
8.60.3.1 equals() . . . 135
8.60.3.2 is_valid() . . . 135
8.60.3.3 username() . . . 135
8.60.4 Member Data Documentation . . . 135
8.60.4.1 __username . . . 135
8.61 audio_collection.UserManage.user_profile.UserProfile Class Reference . . . 135
8.61.1 Detailed Description . . . 136
8.61.2 Constructor & Destructor Documentation . . . 136
8.61.2.1 __init__() . . . 136
8.61.3 Member Function Documentation . . . 136
8.61.3.1 __str__() . . . 136
8.61.4 Member Data Documentation . . . 136
8.61.4.1 bio . . . 136
8.61.4.2 birthdate . . . 136
8.61.4.3 country . . . 137
8.62 audio_collection.Exceptions.weak_password_error.WeakPasswordError Class Reference . . . 137
8.62.1 Detailed Description . . . 137
8.62.2 Constructor & Destructor Documentation . . . 137
8.62.2.1 __init__() . . . 137

9 File Documentation **139**

9.1 audio_collection/__init__.py File Reference . . . 139
9.2 audio_collection/Authentication/__init__.py File Reference . . . 139
9.3 audio_collection/Community/__init__.py File Reference . . . 139
9.4 audio_collection/Exceptions/__init__.py File Reference . . . 139
9.5 audio_collection/IdManage/__init__.py File Reference . . . 140
9.6 audio_collection/MainEntities/__init__.py File Reference . . . 140
9.7 audio_collection/MainEntities/Albums/__init__.py File Reference . . . 140
9.8 audio_collection/MainEntities/Artists/__init__.py File Reference . . . 140
9.9 audio_collection/Playback/__init__.py File Reference . . . 140
9.10 audio_collection/Playlists/__init__.py File Reference . . . 140
9.11 audio_collection/Playlists/Collections/__init__.py File Reference . . . 141
9.12 audio_collection/Subscription/__init__.py File Reference . . . 141
9.13 audio_collection/Tests/__init__.py File Reference . . . 141
9.14 audio_collection/UserManage/__init__.py File Reference . . . 141
9.15 audio_collection/Authentication/log_in.py File Reference . . . 141
9.16 audio_collection/Authentication/register.py File Reference . . . 142
9.17 audio_collection/Community/comment.py File Reference . . . 142

9.18 audio_collection/Community/like.py File Reference . . . 142
9.19 audio_collection/Community/rating.py File Reference . . . 142
9.20 audio_collection/Exceptions/date_error.py File Reference . . . 143
9.21 audio_collection/Exceptions/equalizer_settings_error.py File Reference . . . 143
9.22 audio_collection/Exceptions/invalid_username_error.py File Reference . . . 143
9.23 audio_collection/Exceptions/login_error.py File Reference . . . 144
9.24 audio_collection/Exceptions/playlist_deleting_error.py File Reference . . . 144
9.25 audio_collection/Exceptions/rating_error.py File Reference . . . 144
9.26 audio_collection/Exceptions/register_error.py File Reference . . . 144
9.27 audio_collection/Exceptions/resources_error.py File Reference . . . 145
9.28 audio_collection/Exceptions/ticket_selling_error.py File Reference . . . 145
9.29 audio_collection/Exceptions/track_adding_error.py File Reference . . . 145
9.30 audio_collection/Exceptions/type_error.py File Reference . . . 146
9.31 audio_collection/Exceptions/weak_password_error.py File Reference . . . 146
9.32 audio_collection/IdManage/album_id.py File Reference . . . 146
9.33 audio_collection/IdManage/id_generator.py File Reference . . . 146
9.34 audio_collection/IdManage/ticket_id.py File Reference . . . 147
9.35 audio_collection/IdManage/track_id.py File Reference . . . 147
9.36 audio_collection/IdManage/user_id.py File Reference . . . 147
9.37 audio_collection/main.py File Reference . . . 148
9.38 audio_collection/MainEntities/Albums/album.py File Reference . . . 148
9.39 audio_collection/MainEntities/Albums/album_definer.py File Reference . . . 148
9.40 audio_collection/MainEntities/Albums/ep.py File Reference . . . 148
9.41 audio_collection/MainEntities/Albums/live_album.py File Reference . . . 149
9.42 audio_collection/MainEntities/Albums/single.py File Reference . . . 149
9.43 audio_collection/MainEntities/Albums/studio_album.py File Reference . . . 149
9.44 audio_collection/MainEntities/Artists/artist.py File Reference . . . 149
9.45 audio_collection/MainEntities/Artists/band.py File Reference . . . 150
9.46 audio_collection/MainEntities/Artists/concert.py File Reference . . . 150
9.47 audio_collection/MainEntities/Artists/musician.py File Reference . . . 150
9.48 audio_collection/MainEntities/Artists/ticket.py File Reference . . . 151
9.49 audio_collection/MainEntities/Artists/tour.py File Reference . . . 151
9.50 audio_collection/MainEntities/Artists/track_lyrics.py File Reference . . . 151
9.51 audio_collection/MainEntities/city.py File Reference . . . 151
9.52 audio_collection/MainEntities/collaboration.py File Reference . . . 152
9.53 audio_collection/MainEntities/cover.py File Reference . . . 152
9.54 audio_collection/MainEntities/date.py File Reference . . . 152
9.55 audio_collection/MainEntities/duration.py File Reference . . . 153
9.56 audio_collection/MainEntities/genre.py File Reference . . . 153
9.57 audio_collection/MainEntities/label.py File Reference . . . 153
9.58 audio_collection/MainEntities/remix.py File Reference . . . 153
9.59 audio_collection/MainEntities/track.py File Reference . . . 154

9.60 audio_collection/Playback/equalizer.py File Reference . . . 154
9.61 audio_collection/Playback/queue.py File Reference . . . 154
9.62 audio_collection/Playback/track_statistics.py File Reference . . . 155
9.63 audio_collection/Playlists/Collections/collection.py File Reference . . . 155
9.64 audio_collection/Playlists/Collections/genre_collection.py File Reference . . . 155
9.65 audio_collection/Playlists/favourite.py File Reference . . . 155
9.66 audio_collection/Playlists/favourite_tracks.py File Reference . . . 156
9.67 audio_collection/Playlists/history.py File Reference . . . 156
9.68 audio_collection/Playlists/media_library.py File Reference . . . 156
9.69 audio_collection/Playlists/playlist.py File Reference . . . 157
9.70 audio_collection/Subscription/personal_account.py File Reference . . . 157
9.71 audio_collection/Subscription/subscription.py File Reference . . . 157
9.72 audio_collection/Tests/test_authentication.py File Reference . . . 157
9.73 audio_collection/Tests/test_community.py File Reference . . . 158
9.74 audio_collection/Tests/test_id_manage.py File Reference . . . 158
9.75 audio_collection/Tests/test_main_entities.py File Reference . . . 158
9.76 audio_collection/Tests/test_playback.py File Reference . . . 159
9.77 audio_collection/Tests/test_playlists.py File Reference . . . 159
9.78 audio_collection/Tests/test_subscription.py File Reference . . . 160
9.79 audio_collection/Tests/test_user_manage.py File Reference . . . 160
9.80 audio_collection/UserManage/password.py File Reference . . . 160
9.81 audio_collection/UserManage/premium_user.py File Reference . . . 160
9.82 audio_collection/UserManage/user.py File Reference . . . 161
9.83 audio_collection/UserManage/user_profile.py File Reference . . . 161
9.84 audio_collection/UserManage/username.py File Reference . . . 161
9.85 audio_collection/UserManage/username_validator.py File Reference . . . 161

Index **163**

Chapter 1

Directory Hierarchy

1.1 Directories

Albums . . . 15
__init__.py . . . 140
album.py . . . 148
album_definer.py . . . 148
ep.py . . . 148
live_album.py . . . 149
single.py . . . 149
studio_album.py . . . 149
Artists . . . 15
__init__.py . . . 140
artist.py . . . 149
band.py . . . 150
concert.py . . . 150
musician.py . . . 150
ticket.py . . . 151
tour.py . . . 151
track_lyrics.py . . . 151
audio_collection . . . 15
Authentication . . . 16
__init__.py . . . 139
log_in.py . . . 141
register.py . . . 142
Community . . . 16
__init__.py . . . 139
comment.py . . . 142
like.py . . . 142
rating.py . . . 142
Exceptions . . . 16
__init__.py . . . 139
date_error.py . . . 143
equalizer_settings_error.py . . . 143
invalid_username_error.py . . . 143
login_error.py . . . 144
playlist_deleting_error.py . . . 144
rating_error.py . . . 144
register_error.py . . . 144
resources_error.py . . . 145

ticket_selling_error.py . . . 145
track_adding_error.py . . . 145
type_error.py . . . 146
weak_password_error.py . . . 146
IdManage . . . 17
__init__.py . . . 140
album_id.py . . . 146
id_generator.py . . . 146
ticket_id.py . . . 147
track_id.py . . . 147
user_id.py . . . 147
MainEntities . . . 17
Albums . . . 15
__init__.py . . . 140
album.py . . . 148
album_definer.py . . . 148
ep.py . . . 148
live_album.py . . . 149
single.py . . . 149
studio_album.py . . . 149
Artists . . . 15
__init__.py . . . 140
artist.py . . . 149
band.py . . . 150
concert.py . . . 150
musician.py . . . 150
ticket.py . . . 151
tour.py . . . 151
track_lyrics.py . . . 151
__init__.py . . . 140
city.py . . . 151
collaboration.py . . . 152
cover.py . . . 152
date.py . . . 152
duration.py . . . 153
genre.py . . . 153
label.py . . . 153
remix.py . . . 153
track.py . . . 154
Playback . . . 17
__init__.py . . . 140
equalizer.py . . . 154
queue.py . . . 154
track_statistics.py . . . 155
Playlists . . . 17
Collections . . . 16
__init__.py . . . 141
collection.py . . . 155
genre_collection.py . . . 155
__init__.py . . . 140
favourite.py . . . 155
favourite_tracks.py . . . 156
history.py . . . 156
media_library.py . . . 156
playlist.py . . . 157
Subscription . . . 18
__init__.py . . . 141

personal_account.py . . . 157
subscription.py . . . 157
Tests . . . 18
__init__.py . . . 141
test_authentication.py . . . 157
test_community.py . . . 158
test_id_manage.py . . . 158
test_main_entities.py . . . 158
test_playback.py . . . 159
test_playlists.py . . . 159
test_subscription.py . . . 160
test_user_manage.py . . . 160
UserManage . . . 18
__init__.py . . . 141
password.py . . . 160
premium_user.py . . . 160
user.py . . . 161
user_profile.py . . . 161
username.py . . . 161
username_validator.py . . . 161
__init__.py . . . 139
main.py . . . 148
Authentication . . . 16
__init__.py . . . 139
log_in.py . . . 141
register.py . . . 142
Collections . . . 16
__init__.py . . . 141
collection.py . . . 155
genre_collection.py . . . 155
Community . . . 16
__init__.py . . . 139
comment.py . . . 142
like.py . . . 142
rating.py . . . 142
Exceptions . . . 16
__init__.py . . . 139
date_error.py . . . 143
equalizer_settings_error.py . . . 143
invalid_username_error.py . . . 143
login_error.py . . . 144
playlist_deleting_error.py . . . 144
rating_error.py . . . 144
register_error.py . . . 144
resources_error.py . . . 145
ticket_selling_error.py . . . 145
track_adding_error.py . . . 145
type_error.py . . . 146
weak_password_error.py . . . 146
IdManage . . . 17
__init__.py . . . 140
album_id.py . . . 146
id_generator.py . . . 146
ticket_id.py . . . 147
track_id.py . . . 147
user_id.py . . . 147

MainEntities . . . 17
Albums . . . 15
__init__.py . . . 140
album.py . . . 148
album_definer.py . . . 148
ep.py . . . 148
live_album.py . . . 149
single.py . . . 149
studio_album.py . . . 149
Artists . . . 15
__init__.py . . . 140
artist.py . . . 149
band.py . . . 150
concert.py . . . 150
musician.py . . . 150
ticket.py . . . 151
tour.py . . . 151
track_lyrics.py . . . 151
__init__.py . . . 140
city.py . . . 151
collaboration.py . . . 152
cover.py . . . 152
date.py . . . 152
duration.py . . . 153
genre.py . . . 153
label.py . . . 153
remix.py . . . 153
track.py . . . 154
Playback . . . 17
__init__.py . . . 140
equalizer.py . . . 154
queue.py . . . 154
track_statistics.py . . . 155
Playlists . . . 17
Collections . . . 16
__init__.py . . . 141
collection.py . . . 155
genre_collection.py . . . 155
__init__.py . . . 140
favourite.py . . . 155
favourite_tracks.py . . . 156
history.py . . . 156
media_library.py . . . 156
playlist.py . . . 157
Subscription . . . 18
__init__.py . . . 141
personal_account.py . . . 157
subscription.py . . . 157
Tests . . . 18
__init__.py . . . 141
test_authentication.py . . . 157
test_community.py . . . 158
test_id_manage.py . . . 158
test_main_entities.py . . . 158
test_playback.py . . . 159
test_playlists.py . . . 159

test_subscription.py 160
test_user_manage.py 160
UserManage 18
__init__.py 141
password.py 160
premium_user.py 160
user.py 161
user_profile.py 161
username.py 161
username_validator.py 161

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

audio_collection . . . 19
audio_collection.Authentication . . . 19
audio_collection.Authentication.log_in . . . 19
audio_collection.Authentication.register . . . 20
audio_collection.Community . . . 20
audio_collection.Community.comment . . . 20
audio_collection.Community.like . . . 20
audio_collection.Community.rating . . . 20
audio_collection.Exceptions . . . 20
audio_collection.Exceptions.date_error . . . 21
audio_collection.Exceptions.equalizer_settings_error . . . 21
audio_collection.Exceptions.invalid_username_error . . . 21
audio_collection.Exceptions.login_error . . . 21
audio_collection.Exceptions.playlist_deleting_error . . . 21
audio_collection.Exceptions.rating_error . . . 21
audio_collection.Exceptions.register_error . . . 22
audio_collection.Exceptions.resources_error . . . 22
audio_collection.Exceptions.ticket_selling_error . . . 22
audio_collection.Exceptions.track_adding_error . . . 22
audio_collection.Exceptions.type_error . . . 22
audio_collection.Exceptions.weak_password_error . . . 22
audio_collection.IdManage . . . 23
audio_collection.IdManage.album_id . . . 23
audio_collection.IdManage.id_generator . . . 23
audio_collection.IdManage.ticket_id . . . 23
audio_collection.IdManage.track_id . . . 23
audio_collection.IdManage.user_id . . . 23
audio_collection.main . . . 24
audio_collection.MainEntities . . . 24
audio_collection.MainEntities.Albums . . . 24
audio_collection.MainEntities.Albums.album . . . 24
audio_collection.MainEntities.Albums.album_definer . . . 24
audio_collection.MainEntities.Albums.ep . . . 25
audio_collection.MainEntities.Albums.live_album . . . 25
audio_collection.MainEntities.Albums.single . . . 25

audio_collection.MainEntities.Albums.studio_album . . . 25
audio_collection.MainEntities.Artists . . . 25
audio_collection.MainEntities.Artists.artist . . . 25
audio_collection.MainEntities.Artists.band . . . 26
audio_collection.MainEntities.Artists.concert . . . 26
audio_collection.MainEntities.Artists.musician . . . 26
audio_collection.MainEntities.Artists.ticket . . . 26
audio_collection.MainEntities.Artists.tour . . . 26
audio_collection.MainEntities.Artists.track_lyrics . . . 26
audio_collection.MainEntities.city . . . 27
audio_collection.MainEntities.collaboration . . . 27
audio_collection.MainEntities.cover . . . 27
audio_collection.MainEntities.date . . . 27
audio_collection.MainEntities.duration . . . 27
audio_collection.MainEntities.genre . . . 27
audio_collection.MainEntities.label . . . 27
audio_collection.MainEntities.remix . . . 28
audio_collection.MainEntities.track . . . 28
audio_collection.Playback . . . 28
audio_collection.Playback.equalizer . . . 28
audio_collection.Playback.queue . . . 28
audio_collection.Playback.track_statistics . . . 28
audio_collection.Playlists . . . 29
audio_collection.Playlists.Collections . . . 29
audio_collection.Playlists.Collections.collection . . . 29
audio_collection.Playlists.Collections.genre_collection . . . 29
audio_collection.Playlists.favourite . . . 29
audio_collection.Playlists.favourite_tracks . . . 29
audio_collection.Playlists.history . . . 30
audio_collection.Playlists.media_library . . . 30
audio_collection.Playlists.playlist . . . 30
audio_collection.Subscription . . . 30
audio_collection.Subscription.personal_account . . . 30
audio_collection.Subscription.subscription . . . 30
audio_collection.Tests . . . 31
audio_collection.Tests.test_authentication . . . 31
audio_collection.Tests.test_community . . . 32
audio_collection.Tests.test_id_manage . . . 32
audio_collection.Tests.test_main_entities . . . 32
audio_collection.Tests.test_playback . . . 34
audio_collection.Tests.test_playlists . . . 34
audio_collection.Tests.test_subscription . . . 35
audio_collection.Tests.test_user_manage . . . 35
audio_collection.UserManage . . . 36
audio_collection.UserManage.password . . . 36
audio_collection.UserManage.premium_user . . . 37
audio_collection.UserManage.user . . . 37
audio_collection.UserManage.user_profile . . . 37
audio_collection.UserManage.username . . . 37
audio_collection.UserManage.username_validator . . . 37

Chapter 3

Hierarchical Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

audio_collection.MainEntities.Albums.album.Album . . . 39
audio_collection.MainEntities.Albums.ep.Ep . . . 61
audio_collection.MainEntities.Albums.live_album.LiveAlbum . . . 77
audio_collection.MainEntities.Albums.single.Single . . . 103
audio_collection.MainEntities.Albums.studio_album.StudioAlbum . . . 105
audio_collection.MainEntities.Albums.album_definer.AlbumDefiner . . . 43
audio_collection.MainEntities.Artists.artist.Artist . . . 44
audio_collection.MainEntities.Artists.band.Band . . . 47
audio_collection.MainEntities.city.City . . . 49
audio_collection.Playlists.Collections.collection.Collection . . . 52
audio_collection.Playlists.Collections.genre_collection.GenreCollection . . . 69
audio_collection.Community.comment.Comment . . . 53
audio_collection.MainEntities.Artists.concert.Concert . . . 54
audio_collection.MainEntities.date.Date . . . 58
audio_collection.MainEntities.duration.Duration . . . 60
audio_collection.Playback.equalizer.Equalizer . . . 62
Exception
audio_collection.Exceptions.date_error.DateError . . . 59
audio_collection.Exceptions.equalizer_settings_error.EqualizerSettingsError . . . 64
audio_collection.Exceptions.invalid_username_error.InvalidUsernameError . . . 73
audio_collection.Exceptions.login_error.LogInError . . . 80
audio_collection.Exceptions.playlist_deleting_error.PlaylistDeleteError . . . 92
audio_collection.Exceptions.rating_error.RatingError . . . 99
audio_collection.Exceptions.register_error.RegisterError . . . 100
audio_collection.Exceptions.resources_error.ResourcesError . . . 103
audio_collection.Exceptions.ticket_selling_error.TicketSellingError . . . 111
audio_collection.Exceptions.track_adding_error.TrackAddingError . . . 119
audio_collection.Exceptions.type_error.TypeError . . . 126
audio_collection.Exceptions.weak_password_error.WeakPasswordError . . . 137
audio_collection.Playlists.favourite.Favourite . . . 65
audio_collection.Playlists.favourite_tracks.FavouriteTracks . . . 66
audio_collection.MainEntities.genre.Genre . . . 68
audio_collection.Playlists.history.History . . . 71
audio_collection.IdManage.id_generator.IdGenerator . . . 72

audio_collection.IdManage.album_id.AlbumId . . . 43
audio_collection.IdManage.ticket_id.TicketId . . . 110
audio_collection.IdManage.track_id.TrackId . . . 119
audio_collection.IdManage.user_id.UserId . . . 132
audio_collection.MainEntities.label.Label . . . 74
audio_collection.Community.like.Like . . . 76
audio_collection.Authentication.log_in.LogIn . . . 79
audio_collection.Playlists.media_library.MediaLibrary . . . 80
audio_collection.MainEntities.Artists.musician.Musician . . . 83
audio_collection.UserManage.password.Password . . . 85
audio_collection.Subscription.personal_account.PersonalAccount . . . 87
audio_collection.Playlists.playlist.Playlist . . . 88
audio_collection.Playlists.favourite_tracks.FavouriteTracks . . . 66
audio_collection.Playback.queue.Queue . . . 96
audio_collection.Community.rating.Rating . . . 98
audio_collection.Authentication.register.Register . . . 99
audio_collection.Subscription.subscription.Subscription . . . 106
audio_collection.MainEntities.Artists.ticket.Ticket . . . 108
audio_collection.MainEntities.Artists.tour.Tour . . . 112
audio_collection.MainEntities.track.Track . . . 114
audio_collection.MainEntities.collaboration.Collaboration . . . 50
audio_collection.MainEntities.cover.Cover . . . 56
audio_collection.MainEntities.remix.Remix . . . 101
audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics . . . 120
audio_collection.Playback.track_statistics.TrackStatistics . . . 121
audio_collection.UserManage.user.User . . . 126
audio_collection.UserManage.premium_user.PremiumUser . . . 93
audio_collection.UserManage.username.Username . . . 133
audio_collection.UserManage.username_validator.UsernameValidator . . . 134
audio_collection.UserManage.user_profile.UserProfile . . . 135

Chapter 4

Class Index

4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

audio_collection.MainEntities.Albums.album.Album . . . 39
audio_collection.MainEntities.Albums.album_definer.AlbumDefiner . . . 43
audio_collection.IdManage.album_id.AlbumId . . . 43
audio_collection.MainEntities.Artists.artist.Artist . . . 44
audio_collection.MainEntities.Artists.band.Band . . . 47
audio_collection.MainEntities.city.City . . . 49
audio_collection.MainEntities.collaboration.Collaboration . . . 50
audio_collection.Playlists.Collections.collection.Collection . . . 52
audio_collection.Community.comment.Comment . . . 53
audio_collection.MainEntities.Artists.concert.Concert . . . 54
audio_collection.MainEntities.cover.Cover . . . 56
audio_collection.MainEntities.date.Date . . . 58
audio_collection.Exceptions.date_error.DateError . . . 59
audio_collection.MainEntities.duration.Duration . . . 60
audio_collection.MainEntities.Albums.ep.Ep . . . 61
audio_collection.Playback.equalizer.Equalizer . . . 62
audio_collection.Exceptions.equalizer_settings_error.EqualizerSettingsError . . . 64
audio_collection.Playlists.favourite.Favourite . . . 65
audio_collection.Playlists.favourite_tracks.FavouriteTracks . . . 66
audio_collection.MainEntities.genre.Genre . . . 68
audio_collection.Playlists.Collections.genre_collection.GenreCollection . . . 69
audio_collection.Playlists.history.History . . . 71
audio_collection.IdManage.id_generator.IdGenerator . . . 72
audio_collection.Exceptions.invalid_username_error.InvalidUsernameError . . . 73
audio_collection.MainEntities.label.Label . . . 74
audio_collection.Community.like.Like . . . 76
audio_collection.MainEntities.Albums.live_album.LiveAlbum . . . 77
audio_collection.Authentication.log_in.LogIn . . . 79
audio_collection.Exceptions.login_error.LogInError . . . 80
audio_collection.Playlists.media_library.MediaLibrary . . . 80
audio_collection.MainEntities.Artists.musician.Musician . . . 83
audio_collection.UserManage.password.Password . . . 85
audio_collection.Subscription.personal_account.PersonalAccount . . . 87
audio_collection.Playlists.playlist.Playlist . . . 88
audio_collection.Exceptions.playlist_deleting_error.PlaylistDeleteError . . . 92

audio_collection.UserManage.premium_user.PremiumUser . . . 93
audio_collection.Playback.queue.Queue . . . 96
audio_collection.Community.rating.Rating . . . 98
audio_collection.Exceptions.rating_error.RatingError . . . 99
audio_collection.Authentication.register.Register . . . 99
audio_collection.Exceptions.register_error.RegisterError . . . 100
audio_collection.MainEntities.remix.Remix . . . 101
audio_collection.Exceptions.resources_error.ResourcesError . . . 103
audio_collection.MainEntities.Albums.single.Single . . . 103
audio_collection.MainEntities.Albums.studio_album.StudioAlbum . . . 105
audio_collection.Subscription.subscription.Subscription . . . 106
audio_collection.MainEntities.Artists.ticket.Ticket . . . 108
audio_collection.IdManage.ticket_id.TicketId . . . 110
audio_collection.Exceptions.ticket_selling_error.TicketSellingError . . . 111
audio_collection.MainEntities.Artists.tour.Tour . . . 112
audio_collection.MainEntities.track.Track . . . 114
audio_collection.Exceptions.track_adding_error.TrackAddingError . . . 119
audio_collection.IdManage.track_id.TrackId . . . 119
audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics . . . 120
audio_collection.Playback.track_statistics.TrackStatistics . . . 121
audio_collection.Exceptions.type_error.TypeError . . . 126
audio_collection.UserManage.user.User . . . 126
audio_collection.IdManage.user_id.UserId . . . 132
audio_collection.UserManage.username.Username . . . 133
audio_collection.UserManage.username_validator.UsernameValidator . . . 134
audio_collection.UserManage.user_profile.UserProfile . . . 135
audio_collection.Exceptions.weak_password_error.WeakPasswordError . . . 137

Chapter 5

File Index

5.1 File List

Here is a list of all files with brief descriptions:

audio_collection/__init__.py . . . 139
audio_collection/main.py . . . 148
audio_collection/Authentication/__init__.py . . . 139
audio_collection/Authentication/log_in.py . . . 141
audio_collection/Authentication/register.py . . . 142
audio_collection/Community/__init__.py . . . 139
audio_collection/Community/comment.py . . . 142
audio_collection/Community/like.py . . . 142
audio_collection/Community/rating.py . . . 142
audio_collection/Exceptions/__init__.py . . . 139
audio_collection/Exceptions/date_error.py . . . 143
audio_collection/Exceptions/equalizer_settings_error.py . . . 143
audio_collection/Exceptions/invalid_username_error.py . . . 143
audio_collection/Exceptions/login_error.py . . . 144
audio_collection/Exceptions/playlist_deleting_error.py . . . 144
audio_collection/Exceptions/rating_error.py . . . 144
audio_collection/Exceptions/register_error.py . . . 144
audio_collection/Exceptions/resources_error.py . . . 145
audio_collection/Exceptions/ticket_selling_error.py . . . 145
audio_collection/Exceptions/track_adding_error.py . . . 145
audio_collection/Exceptions/type_error.py . . . 146
audio_collection/Exceptions/weak_password_error.py . . . 146
audio_collection/IdManage/__init__.py . . . 140
audio_collection/IdManage/album_id.py . . . 146
audio_collection/IdManage/id_generator.py . . . 146
audio_collection/IdManage/ticket_id.py . . . 147
audio_collection/IdManage/track_id.py . . . 147
audio_collection/IdManage/user_id.py . . . 147
audio_collection/MainEntities/__init__.py . . . 140
audio_collection/MainEntities/city.py . . . 151
audio_collection/MainEntities/collaboration.py . . . 152
audio_collection/MainEntities/cover.py . . . 152
audio_collection/MainEntities/date.py . . . 152
audio_collection/MainEntities/duration.py . . . 153
audio_collection/MainEntities/genre.py . . . 153

audio_collection/MainEntities/label.py . . . 153
audio_collection/MainEntities/remix.py . . . 153
audio_collection/MainEntities/track.py . . . 154
audio_collection/MainEntities/Albums/__init__.py . . . 140
audio_collection/MainEntities/Albums/album.py . . . 148
audio_collection/MainEntities/Albums/album_definer.py . . . 148
audio_collection/MainEntities/Albums/ep.py . . . 148
audio_collection/MainEntities/Albums/live_album.py . . . 149
audio_collection/MainEntities/Albums/single.py . . . 149
audio_collection/MainEntities/Albums/studio_album.py . . . 149
audio_collection/MainEntities/Artists/__init__.py . . . 140
audio_collection/MainEntities/Artists/artist.py . . . 149
audio_collection/MainEntities/Artists/band.py . . . 150
audio_collection/MainEntities/Artists/concert.py . . . 150
audio_collection/MainEntities/Artists/musician.py . . . 150
audio_collection/MainEntities/Artists/ticket.py . . . 151
audio_collection/MainEntities/Artists/tour.py . . . 151
audio_collection/MainEntities/Artists/track_lyrics.py . . . 151
audio_collection/Playback/__init__.py . . . 140
audio_collection/Playback/equalizer.py . . . 154
audio_collection/Playback/queue.py . . . 154
audio_collection/Playback/track_statistics.py . . . 155
audio_collection/Playlists/__init__.py . . . 140
audio_collection/Playlists/favourite.py . . . 155
audio_collection/Playlists/favourite_tracks.py . . . 156
audio_collection/Playlists/history.py . . . 156
audio_collection/Playlists/media_library.py . . . 156
audio_collection/Playlists/playlist.py . . . 157
audio_collection/Playlists/Collections/__init__.py . . . 141
audio_collection/Playlists/Collections/collection.py . . . 155
audio_collection/Playlists/Collections/genre_collection.py . . . 155
audio_collection/Subscription/__init__.py . . . 141
audio_collection/Subscription/personal_account.py . . . 157
audio_collection/Subscription/subscription.py . . . 157
audio_collection/Tests/__init__.py . . . 141
audio_collection/Tests/test_authentication.py . . . 157
audio_collection/Tests/test_community.py . . . 158
audio_collection/Tests/test_id_manage.py . . . 158
audio_collection/Tests/test_main_entities.py . . . 158
audio_collection/Tests/test_playback.py . . . 159
audio_collection/Tests/test_playlists.py . . . 159
audio_collection/Tests/test_subscription.py . . . 160
audio_collection/Tests/test_user_manage.py . . . 160
audio_collection/UserManage/__init__.py . . . 141
audio_collection/UserManage/password.py . . . 160
audio_collection/UserManage/premium_user.py . . . 160
audio_collection/UserManage/user.py . . . 161
audio_collection/UserManage/user_profile.py . . . 161
audio_collection/UserManage/username.py . . . 161
audio_collection/UserManage/username_validator.py . . . 161

Chapter 6

Directory Documentation

6.1 audio_collection/MainEntities/Albums Directory Reference

Files

- file __init__.py
- file album.py
- file album_definer.py
- file ep.py
- file live_album.py
- file single.py
- file studio_album.py

6.2 audio_collection/MainEntities/Artists Directory Reference

Files

- file __init__.py
- file artist.py
- file band.py
- file concert.py
- file musician.py
- file ticket.py
- file tour.py
- file track_lyrics.py

6.3 audio_collection Directory Reference

Directories

- directory Authentication
- directory Community
- directory Exceptions
- directory IdManage
- directory MainEntities
- directory Playback
- directory Playlists
- directory Subscription
- directory Tests
- directory UserManage

Files

- file __init__.py
- file main.py

6.4 audio_collection/Authentication Directory Reference

Files

- file __init__.py
- file log_in.py
- file register.py

6.5 audio_collection/Playlists/Collections Directory Reference

Files

- file __init__.py
- file collection.py
- file genre_collection.py

6.6 audio_collection/Community Directory Reference

Files

- file __init__.py
- file comment.py
- file like.py
- file rating.py

6.7 audio_collection/Exceptions Directory Reference

Files

- file __init__.py
- file date_error.py
- file equalizer_settings_error.py
- file invalid_username_error.py
- file login_error.py
- file playlist_deleting_error.py
- file rating_error.py
- file register_error.py
- file resources_error.py
- file ticket_selling_error.py
- file track_adding_error.py
- file type_error.py
- file weak_password_error.py

6.8 audio_collection/IdManage Directory Reference

Files

- file __init__.py
- file album_id.py
- file id_generator.py
- file ticket_id.py
- file track_id.py
- file user_id.py

6.9 audio_collection/MainEntities Directory Reference

Directories

- directory Albums
- directory Artists

Files

- file __init__.py
- file city.py
- file collaboration.py
- file cover.py
- file date.py
- file duration.py
- file genre.py
- file label.py
- file remix.py
- file track.py

6.10 audio_collection/Playback Directory Reference

Files

- file __init__.py
- file equalizer.py
- file queue.py
- file track_statistics.py

6.11 audio_collection/Playlists Directory Reference

Directories

- directory Collections

Files

- file __init__.py
- file favourite.py
- file favourite_tracks.py
- file history.py
- file media_library.py
- file playlist.py

6.12 audio_collection/Subscription Directory Reference

Files

- file __init__.py
- file personal_account.py
- file subscription.py

6.13 audio_collection/Tests Directory Reference

Files

- file __init__.py
- file test_authentication.py
- file test_community.py
- file test_id_manage.py
- file test_main_entities.py
- file test_playback.py
- file test_playlists.py
- file test_subscription.py
- file test_user_manage.py

6.14 audio_collection/UserManage Directory Reference

Files

- file __init__.py
- file password.py
- file premium_user.py
- file user.py
- file user_profile.py
- file username.py
- file username_validator.py

Chapter 7

Namespace Documentation

7.1 audio_collection Namespace Reference

Namespaces

- namespace Authentication
- namespace Community
- namespace Exceptions
- namespace IdManage
- namespace main
- namespace MainEntities
- namespace Playback
- namespace Playlists
- namespace Subscription
- namespace Tests
- namespace UserManage

7.2 audio_collection.Authentication Namespace Reference

Namespaces

- namespace log_in
- namespace register

7.3 audio_collection.Authentication.log_in Namespace Reference

Classes

- class LogIn

7.4 audio_collection.Authentication.register Namespace Reference

Classes

- class Register

7.5 audio_collection.Community Namespace Reference

Namespaces

- namespace comment
- namespace like
- namespace rating

7.6 audio_collection.Community.comment Namespace Reference

Classes

- class Comment

7.7 audio_collection.Community.like Namespace Reference

Classes

- class Like

7.8 audio_collection.Community.rating Namespace Reference

Classes

- class Rating

7.9 audio_collection.Exceptions Namespace Reference

Namespaces

- namespace date_error
- namespace equalizer_settings_error
- namespace invalid_username_error
- namespace login_error
- namespace playlist_deleting_error
- namespace rating_error
- namespace register_error
- namespace resources_error
- namespace ticket_selling_error
- namespace track_adding_error
- namespace type_error
- namespace weak_password_error

7.10 audio_collection.Exceptions.date_error Namespace Reference

Classes

- class DateError

7.11 audio_collection.Exceptions.equalizer_settings_error Namespace Reference

Classes

- class EqualizerSettingsError

7.12 audio_collection.Exceptions.invalid_username_error Namespace Reference

Classes

- class InvalidUsernameError

7.13 audio_collection.Exceptions.login_error Namespace Reference

Classes

- class LogInError

7.14 audio_collection.Exceptions.playlist_deleting_error Namespace Reference

Classes

- class PlaylistDeleteError

7.15 audio_collection.Exceptions.rating_error Namespace Reference

Classes

- class RatingError

7.16 audio_collection.Exceptions.register_error Namespace Reference

Classes

- class RegisterError

7.17 audio_collection.Exceptions.resources_error Namespace Reference

Classes

- class ResourcesError

7.18 audio_collection.Exceptions.ticket_selling_error Namespace Reference

Classes

- class TicketSellingError

7.19 audio_collection.Exceptions.track_adding_error Namespace Reference

Classes

- class TrackAddingError

7.20 audio_collection.Exceptions.type_error Namespace Reference

Classes

- class TypeError

7.21 audio_collection.Exceptions.weak_password_error Namespace Reference

Classes

- class WeakPasswordError

7.22 audio_collection.IdManage Namespace Reference

Namespaces

- namespace album_id
- namespace id_generator
- namespace ticket_id
- namespace track_id
- namespace user_id

7.23 audio_collection.IdManage.album_id Namespace Reference

Classes

- class AlbumId

7.24 audio_collection.IdManage.id_generator Namespace Reference

Classes

- class IdGenerator

7.25 audio_collection.IdManage.ticket_id Namespace Reference

Classes

- class TicketId

7.26 audio_collection.IdManage.track_id Namespace Reference

Classes

- class TrackId

7.27 audio_collection.IdManage.user_id Namespace Reference

Classes

- class UserId

7.28 audio_collection.main Namespace Reference

7.29 audio_collection.MainEntities Namespace Reference

Namespaces

- namespace Albums
- namespace Artists
- namespace city
- namespace collaboration
- namespace cover
- namespace date
- namespace duration
- namespace genre
- namespace label
- namespace remix
- namespace track

7.30 audio_collection.MainEntities.Albums Namespace Reference

Namespaces

- namespace album
- namespace album_definer
- namespace ep
- namespace live_album
- namespace single
- namespace studio_album

7.31 audio_collection.MainEntities.Albums.album Namespace Reference

Classes

- class Album

7.32 audio_collection.MainEntities.Albums.album_definer Namespace Reference

Classes

- class AlbumDefiner

7.33 audio_collection.MainEntities.Albums.ep Namespace Reference

Classes

- class Ep

7.34 audio_collection.MainEntities.Albums.live_album Namespace Reference

Classes

- class LiveAlbum

7.35 audio_collection.MainEntities.Albums.single Namespace Reference

Classes

- class Single

7.36 audio_collection.MainEntities.Albums.studio_album Namespace Reference

Classes

- class StudioAlbum

7.37 audio_collection.MainEntities.Artists Namespace Reference

Namespaces

- namespace artist
- namespace band
- namespace concert
- namespace musician
- namespace ticket
- namespace tour
- namespace track_lyrics

7.38 audio_collection.MainEntities.Artists.artist Namespace Reference

Classes

- class Artist

7.39 audio_collection.MainEntities.Artists.band Namespace Reference

Classes

- class Band

7.40 audio_collection.MainEntities.Artists.concert Namespace Reference

Classes

- class Concert

7.41 audio_collection.MainEntities.Artists.musician Namespace Reference

Classes

- class Musician

7.42 audio_collection.MainEntities.Artists.ticket Namespace Reference

Classes

- class Ticket

7.43 audio_collection.MainEntities.Artists.tour Namespace Reference

Classes

- class Tour

7.44 audio_collection.MainEntities.Artists.track_lyrics Namespace Reference

Classes

- class TrackLyrics

7.45 audio_collection.MainEntities.city Namespace Reference

Classes

- class City

7.46 audio_collection.MainEntities.collaboration Namespace Reference

Classes

- class Collaboration

7.47 audio_collection.MainEntities.cover Namespace Reference

Classes

- class Cover

7.48 audio_collection.MainEntities.date Namespace Reference

Classes

- class Date

7.49 audio_collection.MainEntities.duration Namespace Reference

Classes

- class Duration

7.50 audio_collection.MainEntities.genre Namespace Reference

Classes

- class Genre

7.51 audio_collection.MainEntities.label Namespace Reference

Classes

- class Label

7.52 audio_collection.MainEntities.remix Namespace Reference

Classes

- class Remix

7.53 audio_collection.MainEntities.track Namespace Reference

Classes

- class Track

7.54 audio_collection.Playback Namespace Reference

Namespaces

- namespace equalizer
- namespace queue
- namespace track_statistics

7.55 audio_collection.Playback.equalizer Namespace Reference

Classes

- class Equalizer

7.56 audio_collection.Playback.queue Namespace Reference

Classes

- class Queue

7.57 audio_collection.Playback.track_statistics Namespace Reference

Classes

- class TrackStatistics

7.58 audio_collection.Playlists Namespace Reference

Namespaces

- namespace Collections
- namespace favourite
- namespace favourite_tracks
- namespace history
- namespace media_library
- namespace playlist

7.59 audio_collection.Playlists.Collections Namespace Reference

Namespaces

- namespace collection
- namespace genre_collection

7.60 audio_collection.Playlists.Collections.collection Namespace Reference

Classes

- class Collection

7.61 audio_collection.Playlists.Collections.genre_collection Namespace Reference

Classes

- class GenreCollection

7.62 audio_collection.Playlists.favourite Namespace Reference

Classes

- class Favourite

7.63 audio_collection.Playlists.favourite_tracks Namespace Reference

Classes

- class FavouriteTracks

7.64 audio_collection.Playlists.history Namespace Reference

Classes

- class History

7.65 audio_collection.Playlists.media_library Namespace Reference

Classes

- class MediaLibrary

7.66 audio_collection.Playlists.playlist Namespace Reference

Classes

- class Playlist

7.67 audio_collection.Subscription Namespace Reference

Namespaces

- namespace personal_account
- namespace subscription

7.68 audio_collection.Subscription.personal_account Namespace Reference

Classes

- class PersonalAccount

7.69 audio_collection.Subscription.subscription Namespace Reference

Classes

- class Subscription

7.70 audio_collection.Tests Namespace Reference

Namespaces

- namespace test_authentication
- namespace test_community
- namespace test_id_manage
- namespace test_main_entities
- namespace test_playback
- namespace test_playlists
- namespace test_subscription
- namespace test_user_manage

7.71 audio_collection.Tests.test_authentication Namespace Reference

Functions

- tmp_files (tmp_path)
- test_registration (tmp_files)
- test_duplicate_registration (tmp_files)
- test_invalid_username (tmp_files)
- test_login_success (tmp_path)
- test_login_wrong_password (tmp_path)
- test_login_user_not_exist (tmp_path)

7.71.1 Function Documentation

7.71.1.1 test_duplicate_registration()

```
audio_collection.Tests.test_authentication.test_duplicate_registration (
              tmp_files)
```

7.71.1.2 test_invalid_username()

```
audio_collection.Tests.test_authentication.test_invalid_username (
              tmp_files)
```

7.71.1.3 test_login_success()

```
audio_collection.Tests.test_authentication.test_login_success (
              tmp_path)
```

7.71.1.4 test_login_user_not_exist()

```
audio_collection.Tests.test_authentication.test_login_user_not_exist (
              tmp_path)
```

7.71.1.5 test_login_wrong_password()

```
audio_collection.Tests.test_authentication.test_login_wrong_password (
            tmp_path)
```

7.71.1.6 test_registration()

```
audio_collection.Tests.test_authentication.test_registration (
            tmp_files)
```

7.71.1.7 tmp_files()

```
audio_collection.Tests.test_authentication.tmp_files (
            tmp_path)
```

7.72 audio_collection.Tests.test_community Namespace Reference

Functions

- test_comment ()
- test_rating ()

7.72.1 Function Documentation

7.72.1.1 test_comment()

```
audio_collection.Tests.test_community.test_comment ()
```

7.72.1.2 test_rating()

```
audio_collection.Tests.test_community.test_rating ()
```

7.73 audio_collection.Tests.test_id_manage Namespace Reference

7.74 audio_collection.Tests.test_main_entities Namespace Reference

Functions

- test_city ()
- test_album ()
- test_album_definer ()
- test_genre ()
- test_duration ()
- test_musician ()
- test_lyrics ()
- test_track ()
- test_live_album ()
- test_band ()
- test_label ()
- test_single ()
- test_lives ()
- test_track_types ()

7.74.1 Function Documentation

7.74.1.1 test_album()

audio_collection.Tests.test_main_entities.test_album ()

7.74.1.2 test_album_definer()

audio_collection.Tests.test_main_entities.test_album_definer ()

7.74.1.3 test_band()

audio_collection.Tests.test_main_entities.test_band ()

7.74.1.4 test_city()

audio_collection.Tests.test_main_entities.test_city ()

7.74.1.5 test_duration()

audio_collection.Tests.test_main_entities.test_duration ()

7.74.1.6 test_genre()

audio_collection.Tests.test_main_entities.test_genre ()

7.74.1.7 test_label()

audio_collection.Tests.test_main_entities.test_label ()

7.74.1.8 test_live_album()

audio_collection.Tests.test_main_entities.test_live_album ()

7.74.1.9 test_lives()

audio_collection.Tests.test_main_entities.test_lives ()

7.74.1.10 test_lyrics()

audio_collection.Tests.test_main_entities.test_lyrics ()

7.74.1.11 test_musician()

```
audio_collection.Tests.test_main_entities.test_musician ()
```

7.74.1.12 test_single()

```
audio_collection.Tests.test_main_entities.test_single ()
```

7.74.1.13 test_track()

```
audio_collection.Tests.test_main_entities.test_track ()
```

7.74.1.14 test_track_types()

```
audio_collection.Tests.test_main_entities.test_track_types ()
```

7.75 audio_collection.Tests.test_playback Namespace Reference

Functions

- test_queue ()

7.75.1 Function Documentation

7.75.1.1 test_queue()

```
audio_collection.Tests.test_playback.test_queue ()
```

7.76 audio_collection.Tests.test_playlists Namespace Reference

Functions

- test_playlist ()
- test_favourite ()
- test_media ()
- test_genre_collection ()

7.76.1 Function Documentation

7.76.1.1 test_favourite()

```
audio_collection.Tests.test_playlists.test_favourite ()
```

7.76.1.2 test_genre_collection()

```
audio_collection.Tests.test_playlists.test_genre_collection ()
```

7.76.1.3 test_media()

```
audio_collection.Tests.test_playlists.test_media ()
```

7.76.1.4 test_playlist()

```
audio_collection.Tests.test_playlists.test_playlist ()
```

7.77 audio_collection.Tests.test_subscription Namespace Reference

Functions

- test_subscription ()
- test_personal_account ()

7.77.1 Function Documentation

7.77.1.1 test_personal_account()

```
audio_collection.Tests.test_subscription.test_personal_account ()
```

7.77.1.2 test_subscription()

```
audio_collection.Tests.test_subscription.test_subscription ()
```

7.78 audio_collection.Tests.test_user_manage Namespace Reference

Functions

- test_username ()
- test_username_validator ()
- test_user_profile ()
- test_password ()
- test_user ()
- test_premium_user ()

7.78.1 Function Documentation

7.78.1.1 test_password()

```
audio_collection.Tests.test_user_manage.test_password ()
```

7.78.1.2 test_premium_user()

```
audio_collection.Tests.test_user_manage.test_premium_user ()
```

7.78.1.3 test_user()

```
audio_collection.Tests.test_user_manage.test_user ()
```

7.78.1.4 test_user_profile()

```
audio_collection.Tests.test_user_manage.test_user_profile ()
```

7.78.1.5 test_username()

```
audio_collection.Tests.test_user_manage.test_username ()
```

7.78.1.6 test_username_validator()

```
audio_collection.Tests.test_user_manage.test_username_validator ()
```

7.79 audio_collection.UserManage Namespace Reference

Namespaces

- namespace password
- namespace premium_user
- namespace user
- namespace user_profile
- namespace username
- namespace username_validator

7.80 audio_collection.UserManage.password Namespace Reference

Classes

- class Password

7.81 audio_collection.UserManage.premium_user Namespace Reference

Classes

- class PremiumUser

7.82 audio_collection.UserManage.user Namespace Reference

Classes

- class User

7.83 audio_collection.UserManage.user_profile Namespace Reference

Classes

- class UserProfile

7.84 audio_collection.UserManage.username Namespace Reference

Classes

- class Username

7.85 audio_collection.UserManage.username_validator Namespace Reference

Classes

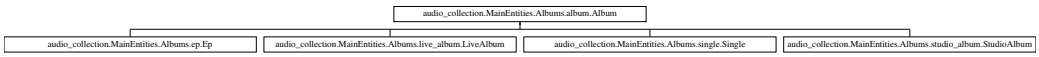
- class UsernameValidator

Chapter 8

Class Documentation

8.1 audio_collection.MainEntities.Albums.album.Album Class Reference

Inheritance diagram for audio_collection.MainEntities.Albums.album.Album:



Public Member Functions

- __init__ (self, str title, list[Track] tracks, Genre genre, int year, Label label)
- title (self)
- tracks (self)
- genre (self)
- year (self)
- label (self)
- rating (self)
- album_id (self)
- likes (self)
- get_liked (self)
- get_info (self)
- average_rating (self)
- add_rating (self, Rating rating)
- total_duration (self)

Protected Attributes

- _title = title
- _tracks = tracks
- _genre = genre
- _year = year
- _label = label
- int _max_single_tracks = 3
- int _max_ep_tracks = 7
- list _rating = [ ]
- _id = AlbumId.generate_id()
- int _likes = 0

8.1.1 Detailed Description

```
Album base class
```

8.1.2 Constructor & Destructor Documentation

8.1.2.1 __init__()

```
audio_collection.MainEntities.Albums.album.Album.__init__ (
              self,
             str title,
             list[Track] tracks,
             Genre genre,
             int year,
             Label label)
```

```
Constructor
:param title: Album title
:param tracks: Album tracks
:param genre: Album genre
:param year: Album year
:param label: Album label
```

8.1.3 Member Function Documentation

8.1.3.1 add_rating()

```
audio_collection.MainEntities.Albums.album.Album.add_rating (
              self,
             Rating rating)
```

8.1.3.2 album_id()

```
audio_collection.MainEntities.Albums.album.Album.album_id (
              self)
```

8.1.3.3 average_rating()

```
audio_collection.MainEntities.Albums.album.Album.average_rating (
              self)
```

8.1.3.4 genre()

```
audio_collection.MainEntities.Albums.album.Album.genre (
              self)
```

8.1.3.5 get_info()

```
audio_collection.MainEntities.Albums.album.Album.get_info (
              self)
```

8.1.3.6 get_liked()

```
audio_collection.MainEntities.Albums.album.Album.get_liked (
              self)
```

8.1.3.7 label()

```
audio_collection.MainEntities.Albums.album.Album.label (
              self)
```

8.1.3.8 likes()

```
audio_collection.MainEntities.Albums.album.Album.likes (
              self)
```

8.1.3.9 rating()

```
audio_collection.MainEntities.Albums.album.Album.rating (
              self)
```

8.1.3.10 title()

```
audio_collection.MainEntities.Albums.album.Album.title (
              self)
```

8.1.3.11 total_duration()

```
audio_collection.MainEntities.Albums.album.Album.total_duration (
              self)
```

8.1.3.12 tracks()

```
audio_collection.MainEntities.Albums.album.Album.tracks (
              self)
```

8.1.3.13 year()

```
audio_collection.MainEntities.Albums.album.Album.year (
              self)
```

8.1.4 Member Data Documentation

8.1.4.1 _genre

audio_collection.MainEntities.Albums.album.Album._genre = genre [protected]

8.1.4.2 _id

audio_collection.MainEntities.Albums.album.Album._id = AlbumId.generate_id() [protected]

8.1.4.3 _label

audio_collection.MainEntities.Albums.album.Album._label = label [protected]

8.1.4.4 _likes

int audio_collection.MainEntities.Albums.album.Album._likes = 0 [protected]

8.1.4.5 _max_ep_tracks

int audio_collection.MainEntities.Albums.album.Album._max_ep_tracks = 7 [protected]

8.1.4.6 _max_single_tracks

int audio_collection.MainEntities.Albums.album.Album._max_single_tracks = 3 [protected]

8.1.4.7 _rating

audio_collection.MainEntities.Albums.album.Album._rating = [] [protected]

8.1.4.8 _title

audio_collection.MainEntities.Albums.album.Album._title = title [protected]

8.1.4.9 _tracks

audio_collection.MainEntities.Albums.album.Album._tracks = tracks [protected]

8.1.4.10 _year

```
audio_collection.MainEntities.Albums.album.Album._year = year  [protected]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Albums/album.py

8.2 audio_collection.MainEntities.Albums.album_definer.AlbumDefiner Class Reference

Public Member Functions

- define (cls, Album album)

8.2.1 Detailed Description

```
Album definer class
```

8.2.2 Member Function Documentation

8.2.2.1 define()

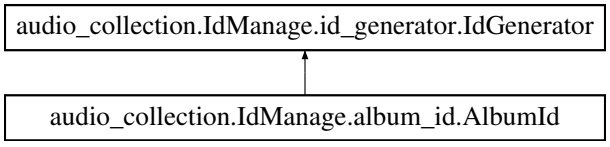
```
audio_collection.MainEntities.Albums.album_definer.AlbumDefiner.define (
              cls,
             Album album)


Defines album(single, ep, or full-format album)
:param album: Album to define type
:return: Album type
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Albums/album_definer.py

8.3 audio_collection.IdManage.album_id.AlbumId Class Reference

Inheritance diagram for audio_collection.IdManage.album_id.AlbumId:



Public Member Functions

- generate_id (cls)

Static Private Attributes

- int __album_id = 0

8.3.1 Detailed Description

```
Album id class
```

8.3.2 Member Function Documentation

8.3.2.1 generate_id()

```
audio_collection.IdManage.album_id.AlbumId.generate_id (
              cls)
```

```
A method to generate album id
:return:
```

Reimplemented from audio_collection.IdManage.id_generator.IdGenerator.

8.3.3 Member Data Documentation

8.3.3.1 __album_id

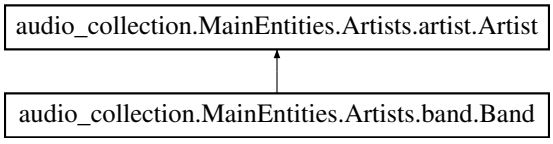
```
int audio_collection.IdManage.album_id.AlbumId.__album_id = 0  [static], [private]
```

The documentation for this class was generated from the following file:

- audio_collection/IdManage/album_id.py

8.4 audio_collection.MainEntities.Artists.artist.Artist Class Reference

Inheritance diagram for audio_collection.MainEntities.Artists.artist.Artist:



Public Member Functions

- __init__ (self, str name, list["Album"] albums)
- name (self)
- albums (self)
- followers (self)
- get_album_info (self, album)
- get_followed (self)
- add_album (self, "Album" album)
- remove_album (self, "Album" album)
- total_likes (self)
- total_tracks (self)
- get_albums_by_year (self, int year)

Protected Attributes

- _name = name
- _albums = albums
- int _followers = 0

8.4.1 Detailed Description

```
Artist base class
```

8.4.2 Constructor & Destructor Documentation

8.4.2.1 __init__()

```
audio_collection.MainEntities.Artists.artist.Artist.__init__ (
              self,
             str name,
             list["Album"] albums)
```

```
Constructor
:param name: Artist name
:param albums: Artist albums
```

8.4.3 Member Function Documentation

8.4.3.1 add_album()

```
audio_collection.MainEntities.Artists.artist.Artist.add_album (
              self,
             "Album" album)
```

8.4.3.2 albums()

```
audio_collection.MainEntities.Artists.artist.Artist.albums (
              self)
```

8.4.3.3 followers()

```
audio_collection.MainEntities.Artists.artist.Artist.followers (
              self)
```

8.4.3.4 get_album_info()

```
audio_collection.MainEntities.Artists.artist.Artist.get_album_info (
              self,
              album)
```

```
A method to get the album info
:param album:
:return:
```

8.4.3.5 get_albums_by_year()

```
audio_collection.MainEntities.Artists.artist.Artist.get_albums_by_year (
              self,
             int year)
```

8.4.3.6 get_followed()

```
audio_collection.MainEntities.Artists.artist.Artist.get_followed (
              self)
```

8.4.3.7 name()

```
audio_collection.MainEntities.Artists.artist.Artist.name (
              self)
```

8.4.3.8 remove_album()

```
audio_collection.MainEntities.Artists.artist.Artist.remove_album (
              self,
             "Album" album)
```

8.4.3.9 total_likes()

```
audio_collection.MainEntities.Artists.artist.Artist.total_likes (
              self)
```

8.4.3.10 total_tracks()

```
audio_collection.MainEntities.Artists.artist.Artist.total_tracks (
              self)
```

8.4.4 Member Data Documentation

8.4.4.1 _albums

```
audio_collection.MainEntities.Artists.artist.Artist._albums = albums  [protected]
```

8.4.4.2 _followers

```
int audio_collection.MainEntities.Artists.artist.Artist._followers = 0  [protected]
```

8.4.4.3 _name

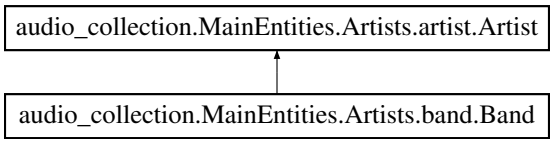
```
audio_collection.MainEntities.Artists.artist.Artist._name = name  [protected]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Artists/artist.py

8.5 audio_collection.MainEntities.Artists.band.Band Class Reference

Inheritance diagram for audio_collection.MainEntities.Artists.band.Band:



Public Member Functions

- __init__ (self, str name, list[Album] albums, list[Musician] musicians)
- musicians (self)
- get_members_info (self)

Public Member Functions inherited from audio_collection.MainEntities.Artists.artist.Artist

- __init__ (self, str name, list["Album"] albums)
- name (self)
- albums (self)
- followers (self)
- get_album_info (self, album)
- get_followed (self)
- add_album (self, "Album" album)
- remove_album (self, "Album" album)
- total_likes (self)
- total_tracks (self)
- get_albums_by_year (self, int year)

Private Attributes

- __musicians = musicians

Additional Inherited Members

Protected Attributes inherited from audio_collection.MainEntities.Artists.artist.Artist

- _name = name
- _albums = albums
- int _followers = 0

8.5.1 Detailed Description

```
Band class
```

8.5.2 Constructor & Destructor Documentation

8.5.2.1 __init__()

```
audio_collection.MainEntities.Artists.band.Band.__init__ (
              self,
             str name,
             list[Album] albums,
             list[Musician] musicians)
```

```
Constructor
:param name: Band name
:param albums: Band albums
:param musicians: Band musicians
```

8.5.3 Member Function Documentation

8.5.3.1 get_members_info()

```
audio_collection.MainEntities.Artists.band.Band.get_members_info (
              self)
```

```
A method to get members info
:return: Band members info
```

8.5.3.2 musicians()

```
audio_collection.MainEntities.Artists.band.Band.musicians (
              self)
```

8.5.4 Member Data Documentation

8.5.4.1 __musicians

```
audio_collection.MainEntities.Artists.band.Band.__musicians = musicians  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Artists/band.py

8.6 audio_collection.MainEntities.city.City Class Reference

Public Member Functions

- __init__ (self, str city)
- __str__ (self)

Public Attributes

- city = city

8.6.1 Detailed Description

```
City class
```

8.6.2 Constructor & Destructor Documentation

8.6.2.1 __init__()

```
audio_collection.MainEntities.city.City.__init__ (
              self,
             str city)
```

```
Constructor
:param city: City name
```

8.6.3 Member Function Documentation

8.6.3.1 __str__()

```
audio_collection.MainEntities.city.City.__str__ (
              self)
```

8.6.4 Member Data Documentation

8.6.4.1 city

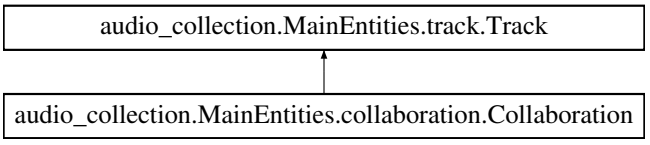
```
audio_collection.MainEntities.city.City.city = city
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/city.py

8.7 audio_collection.MainEntities.collaboration.Collaboration Class Reference

Inheritance diagram for audio_collection.MainEntities.collaboration.Collaboration:



Public Member Functions

- __init__ (self, str title, Genre genre, list[Artist] artists)
- artists (self)

Public Member Functions inherited from audio_collection.MainEntities.track.Track

- __init__ (self, str title, Genre genre)
- title (self)
- duration (self)
- genre (self)
- track_id (self)
- lyrics (self)
- normalized_name (self)
- statistics (self)
- equalizer (self)
- likes (self)
- adjust_equalizer (self, bass=None, mid=None, treble=None)
- formated_duration (self)
- add_lyrics (self, str lyrics)
- add_comment (self, text)
- add_rate (self, int rate)
- play (self)
- add_like (self)
- get_total_comments (self)

Private Attributes

- __artists = artists

8.7.1 Detailed Description

```
Collaboration class
```

8.7.2 Constructor & Destructor Documentation

8.7.2.1 __init__()

```
audio_collection.MainEntities.collaboration.Collaboration.__init__ (
              self,
             str title,
             Genre genre,
             list[Artist] artists)
```

```
Constructor
:param title: Collaboration title
:param genre: Collaboration genre
:param artists: Artists
```

8.7.3 Member Function Documentation

8.7.3.1 artists()

```
audio_collection.MainEntities.collaboration.Collaboration.artists (
              self)
```

8.7.4 Member Data Documentation

8.7.4.1 __artists

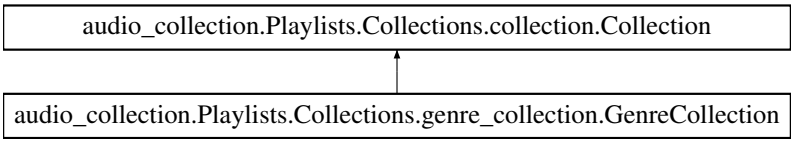
```
audio_collection.MainEntities.collaboration.Collaboration.__artists = artists  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/collaboration.py

8.8 audio_collection.Playlists.Collections.collection.Collection Class Reference

Inheritance diagram for audio_collection.Playlists.Collections.collection.Collection:



Public Member Functions

- __init__ (self, Playlist playlist)
- playlist (self)

Private Attributes

- __playlist = playlist

8.8.1 Detailed Description

```
Collection base class
```

8.8.2 Constructor & Destructor Documentation

8.8.2.1 __init__()

```
audio_collection.Playlists.Collections.collection.Collection.__init__ (
              self,
             Playlist playlist)
```

```
Constructor
:param playlist: A playlist to create collection from
```

8.8.3 Member Function Documentation

8.8.3.1 playlist()

```
audio_collection.Playlists.Collections.collection.Collection.playlist (
              self)
```

8.8.4 Member Data Documentation

8.8.4.1 __playlist

```
audio_collection.Playlists.Collections.collection.Collection.__playlist = playlist  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/Playlists/Collections/collection.py

8.9 audio_collection.Community.comment.Comment Class Reference

Public Member Functions

- __init__ (self, str comment)
- __str__ (self)
- edit_comment (self, str new_comment)

Private Attributes

- __comment = comment

8.9.1 Detailed Description

```
Comment class
```

8.9.2 Constructor & Destructor Documentation

8.9.2.1 __init__()

```
audio_collection.Community.comment.Comment.__init__ (
              self,
             str comment)
```

```
Constructor
:param comment: str
```

8.9.3 Member Function Documentation

8.9.3.1 __str__()

```
audio_collection.Community.comment.Comment.__str__ (
              self)
```

8.9.3.2 edit_comment()

```
audio_collection.Community.comment.Comment.edit_comment (
              self,
             str new_comment)
```

```
Edits the comment
:param new_comment: str
:return: updated comment
```

8.9.4 Member Data Documentation

8.9.4.1 __comment

```
audio_collection.Community.comment.Comment.__comment = comment  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/Community/comment.py

8.10 audio_collection.MainEntities.Artists.concert.Concert Class Reference

Public Member Functions

- __init__ (self, Artist artist, int ticket_amount, City city, Date date)
- artist (self)
- ticket_amount (self)
- city (self)
- date (self)
- ticket_price (self)
- sell_ticket (self)

Private Attributes

- __artist = artist
- int __ticket_amount = ticket_amount
- __city = city
- __date = date
- int __ticket_price = 0

8.10.1 Detailed Description

```
Concert class
```

8.10.2 Constructor & Destructor Documentation

8.10.2.1 __init__()

```
audio_collection.MainEntities.Artists.concert.Concert.__init__ (
              self,
             Artist artist,
             int ticket_amount,
             City city,
             Date date)
```

```
Constructor
:param artist: Artist
:param ticket_amount: Amount of tickets
:param city: Concert city
:param date: Concert date
```

8.10.3 Member Function Documentation

8.10.3.1 artist()

```
audio_collection.MainEntities.Artists.concert.Concert.artist (
              self)
```

8.10.3.2 city()

```
audio_collection.MainEntities.Artists.concert.Concert.city (
              self)
```

8.10.3.3 date()

```
audio_collection.MainEntities.Artists.concert.Concert.date (
              self)
```

8.10.3.4 sell_ticket()

```
audio_collection.MainEntities.Artists.concert.Concert.sell_ticket (
              self)
```

8.10.3.5 ticket_amount()

```
audio_collection.MainEntities.Artists.concert.Concert.ticket_amount (
            self)
```

8.10.3.6 ticket_price()

```
audio_collection.MainEntities.Artists.concert.Concert.ticket_price (
            self)
```

8.10.4 Member Data Documentation

8.10.4.1 __artist

```
audio_collection.MainEntities.Artists.concert.Concert.__artist = artist  [private]
```

8.10.4.2 __city

```
audio_collection.MainEntities.Artists.concert.Concert.__city = city  [private]
```

8.10.4.3 __date

```
audio_collection.MainEntities.Artists.concert.Concert.__date = date  [private]
```

8.10.4.4 __ticket_amount

```
int audio_collection.MainEntities.Artists.concert.Concert.__ticket_amount = ticket_amount
[private]
```

8.10.4.5 __ticket_price

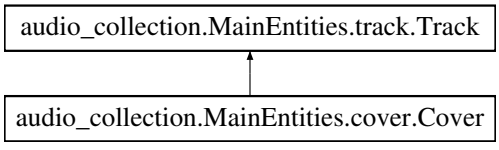
```
int audio_collection.MainEntities.Artists.concert.Concert.__ticket_price = 0  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Artists/concert.py

8.11 audio_collection.MainEntities.cover.Cover Class Reference

Inheritance diagram for audio_collection.MainEntities.cover.Cover:



Public Member Functions

- __init__ (self, str title, Genre genre, Artist cover_author)
- cover_author (self)

Public Member Functions inherited from audio_collection.MainEntities.track.Track

- __init__ (self, str title, Genre genre)
- title (self)
- duration (self)
- genre (self)
- track_id (self)
- lyrics (self)
- normalized_name (self)
- statistics (self)
- equalizer (self)
- likes (self)
- adjust_equalizer (self, bass=None, mid=None, treble=None)
- formated_duration (self)
- add_lyrics (self, str lyrics)
- add_comment (self, text)
- add_rate (self, int rate)
- play (self)
- add_like (self)
- get_total_comments (self)

Private Attributes

- __cover_author = cover_author

8.11.1 Detailed Description

```
Cover class
```

8.11.2 Constructor & Destructor Documentation

8.11.2.1 __init__()

```
audio_collection.MainEntities.cover.Cover.__init__ (
             self,
            str title,
            Genre genre,
            Artist cover_author)
```

```
Constructor
:param title: Cover title
:param genre: Cover genre
:param cover_author: Cover author
```

8.11.3 Member Function Documentation

8.11.3.1 cover_author()

```
audio_collection.MainEntities.cover.Cover.cover_author (
            self)
```

8.11.4 Member Data Documentation

8.11.4.1 __cover_author

```
audio_collection.MainEntities.cover.Cover.__cover_author = cover_author  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/cover.py

8.12 audio_collection.MainEntities.date.Date Class Reference

Public Member Functions

- __init__ (self, int year, int month, int day)
- __str__ (self)

Public Attributes

- year = year
- month = month
- day = day

8.12.1 Detailed Description

```
Date class
```

8.12.2 Constructor & Destructor Documentation

8.12.2.1 __init__()

```
audio_collection.MainEntities.date.Date.__init__ (
             self,
            int year,
            int month,
            int day)

Constructor
:param year: Year
:param month: Month
:param day: Day
```

8.12.3 Member Function Documentation

8.12.3.1 __str__()

```
audio_collection.MainEntities.date.Date.__str__ (
              self)
```

8.12.4 Member Data Documentation

8.12.4.1 day

```
audio_collection.MainEntities.date.Date.day = day
```

8.12.4.2 month

```
audio_collection.MainEntities.date.Date.month = month
```

8.12.4.3 year

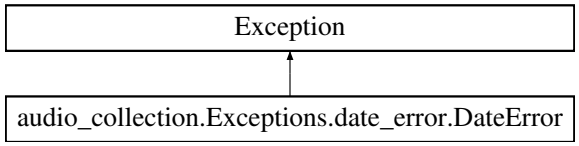
```
audio_collection.MainEntities.date.Date.year = year
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/date.py

8.13 audio_collection.Exceptions.date_error.DateError Class Reference

Inheritance diagram for audio_collection.Exceptions.date_error.DateError:



Public Member Functions

- __init__ (self, str message)

8.13.1 Detailed Description

```
Date error exception
```

8.13.2 Constructor & Destructor Documentation

8.13.2.1 __init__()

```
audio_collection.Exceptions.date_error.DateError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/date_error.py

8.14 audio_collection.MainEntities.duration.Duration Class Reference

Public Member Functions

- __init__ (self, int duration)
- duration (self)

Private Attributes

- __duration = duration

8.14.1 Detailed Description

```
Duration class
```

8.14.2 Constructor & Destructor Documentation

8.14.2.1 __init__()

```
audio_collection.MainEntities.duration.Duration.__init__ (
              self,
             int duration)
```

```
Constructor
:param duration: duration
```

8.14.3 Member Function Documentation

8.14.3.1 duration()

```
audio_collection.MainEntities.duration.Duration.duration (
              self)
```

8.14.4 Member Data Documentation

8.14.4.1 __duration

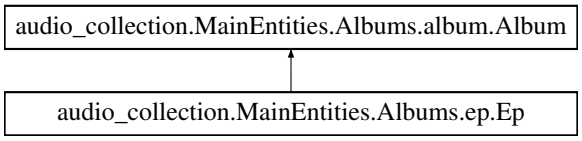
```
audio_collection.MainEntities.duration.Duration.__duration = duration  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/duration.py

8.15 audio_collection.MainEntities.Albums.ep.Ep Class Reference

Inheritance diagram for audio_collection.MainEntities.Albums.ep.Ep:



Public Member Functions

- __init__ (self, str title, list[Track] tracks, Genre genre, int year, Label label)

Public Member Functions inherited from audio_collection.MainEntities.Albums.album.Album

- __init__ (self, str title, list[Track] tracks, Genre genre, int year, Label label)
- title (self)
- tracks (self)
- genre (self)
- year (self)
- label (self)
- rating (self)
- album_id (self)
- likes (self)
- get_liked (self)
- get_info (self)
- average_rating (self)
- add_rating (self, Rating rating)
- total_duration (self)

Additional Inherited Members

Protected Attributes inherited from audio_collection.MainEntities.Albums.album.Album

- _title = title
- _tracks = tracks
- _genre = genre
- _year = year
- _label = label
- int _max_single_tracks = 3
- int _max_ep_tracks = 7
- list _rating = [ ]
- _id = AlbumId.generate_id()
- int _likes = 0

8.15.1 Detailed Description

```
Ep class
```

8.15.2 Constructor & Destructor Documentation

8.15.2.1 __init__()

```
audio_collection.MainEntities.Albums.ep.Ep.__init__ (
              self,
             str title,
             list[Track] tracks,
             Genre genre,
             int year,
             Label label)
```

```
Constructor
:param title: Ep title
:param tracks: Ep tracks
:param genre: Ep genre
:param year: Ep year
:param label: Ep label
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Albums/ep.py

8.16 audio_collection.Playback.equalizer.Equalizer Class Reference

Public Member Functions

- __init__ (self, bass=0, mid=0, treble=0)
- adjust (self, bass=None, mid=None, treble=None)
- __str__ (self)

Private Attributes

- __bass = bass
- __mid = mid
- __treble = treble

8.16.1 Detailed Description

```
Equalizer class
```

8.16.2 Constructor & Destructor Documentation

8.16.2.1 __init__()

```
audio_collection.Playback.equalizer.Equalizer.__init__ (
              self,
              bass = 0,
              mid = 0,
              treble = 0)
```

```
Constructor
:param bass: Low frequency
:param mid: Mid frequency
:param treble: High frequency
```

8.16.3 Member Function Documentation

8.16.3.1 __str__()

```
audio_collection.Playback.equalizer.Equalizer.__str__ (
              self)
```

8.16.3.2 adjust()

```
audio_collection.Playback.equalizer.Equalizer.adjust (
              self,
              bass = None,
              mid = None,
              treble = None)
```

```
Changes equalizer settings
:param bass: Bass
:param mid: Mid
:param treble: Treble
:return: Updated equalizer settings
```

8.16.4 Member Data Documentation

8.16.4.1 __bass

```
audio_collection.Playback.equalizer.Equalizer.__bass = bass  [private]
```

8.16.4.2 __mid

```
audio_collection.Playback.equalizer.Equalizer.__mid = mid  [private]
```

8.16.4.3 __treble

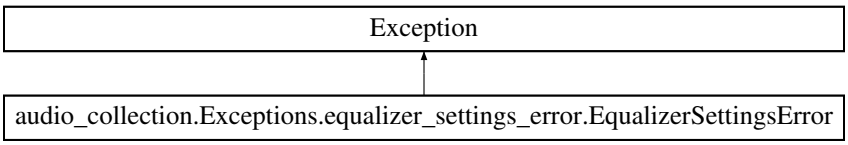
```
audio_collection.Playback.equalizer.Equalizer.__treble = treble  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/Playback/equalizer.py

8.17 audio_collection.Exceptions.equalizer_settings_error.EqualizerSettingsError Class Reference

Inheritance diagram for audio_collection.Exceptions.equalizer_settings_error.EqualizerSettingsError:



Public Member Functions

- __init__ (self, str message)

8.17.1 Detailed Description

```
Equalizer settings error exception
```

8.17.2 Constructor & Destructor Documentation

8.17.2.1 __init__()

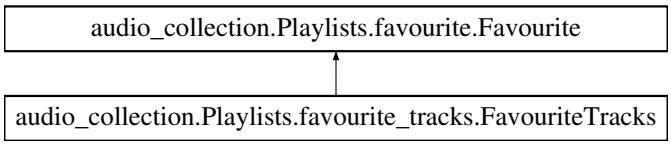
```
audio_collection.Exceptions.equalizer_settings_error.EqualizerSettingsError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/equalizer_settings_error.py

8.18 audio_collection.Playlists.favourite.Favourite Class Reference

Inheritance diagram for audio_collection.Playlists.favourite.Favourite:



Public Member Functions

- __init__ (self)
- objects (self)
- add (self, object obj)
- remove (self, object obj)

Protected Attributes

- list _objects = [ ]

8.18.1 Detailed Description

```
Favourite objects base class
```

8.18.2 Constructor & Destructor Documentation

8.18.2.1 __init__()

```
audio_collection.Playlists.favourite.Favourite.__init__ (
              self)
```

8.18.3 Member Function Documentation

8.18.3.1 add()

```
audio_collection.Playlists.favourite.Favourite.add (
              self,
             object obj)
```

```
Adds object to favourite
:param obj: Object to add
:return: updated favourite objects
```

8.18.3.2 objects()

```
audio_collection.Playlists.favourite.Favourite.objects (
              self)
```

8.18.3.3 remove()

```
audio_collection.Playlists.favourite.Favourite.remove (
              self,
             object obj)
```

```
Removes the object from favourite
:param obj: Object to remove
:return: updated favourite objects
```

8.18.4 Member Data Documentation

8.18.4.1 _objects

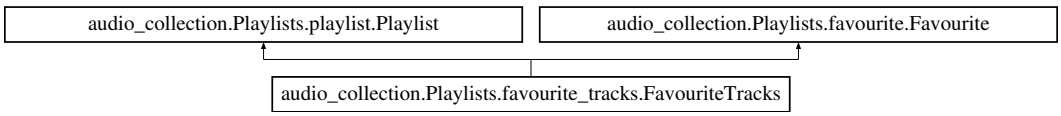
```
list audio_collection.Playlists.favourite.Favourite._objects = []  [protected]
```

The documentation for this class was generated from the following file:

- audio_collection/Playlists/favourite.py

8.19 audio_collection.Playlists.favourite_tracks.FavouriteTracks Class Reference

Inheritance diagram for audio_collection.Playlists.favourite_tracks.FavouriteTracks:



Public Member Functions

- __init__ (self)
- add_track (self, Track track)
- delete_track (self, Track track)
- tracks (self)

Public Member Functions inherited from audio_collection.Playlists.playlist.Playlist

- __init__ (self, str name)
- name (self)
- current_track (self)
- duration (self)
- queue (self)
- history (self)
- get_formated_duration (self)
- playlist_tracks (self)
- next_track (self)

Public Member Functions inherited from audio_collection.Playlists.favourite.Favourite

- __init__ (self)
- objects (self)
- add (self, object obj)
- remove (self, object obj)

Additional Inherited Members

Public Attributes inherited from audio_collection.Playlists.playlist.Playlist

- current_track

Protected Attributes inherited from audio_collection.Playlists.playlist.Playlist

- list _tracks = [ ]
- _duration = sum([i.duration for i in self._tracks])
- Track|None _current_track = None

Protected Attributes inherited from audio_collection.Playlists.favourite.Favourite

- list _objects = [ ]

8.19.1 Detailed Description

```
Favourite tracks class
```

8.19.2 Constructor & Destructor Documentation

8.19.2.1 __init__()

```
audio_collection.Playlists.favourite_tracks.FavouriteTracks.__init__ (
            self)
```

8.19.3 Member Function Documentation

8.19.3.1 add_track()

```
audio_collection.Playlists.favourite_tracks.FavouriteTracks.add_track (
              self,
             Track track)
```

```
Adds track to favourite
:param track: Track to like
:return: Updated favourite tracks
```

Reimplemented from audio_collection.Playlists.playlist.Playlist.

8.19.3.2 delete_track()

```
audio_collection.Playlists.favourite_tracks.FavouriteTracks.delete_track (
              self,
             Track track)
```

```
Deletes track from favourite
:param track: Track to delete
:return: Updated fav tracks
```

Reimplemented from audio_collection.Playlists.playlist.Playlist.

8.19.3.3 tracks()

```
audio_collection.Playlists.favourite_tracks.FavouriteTracks.tracks (
              self)
```

Reimplemented from audio_collection.Playlists.playlist.Playlist.

The documentation for this class was generated from the following file:

- audio_collection/Playlists/favourite_tracks.py

8.20 audio_collection.MainEntities.genre.Genre Class Reference

Public Member Functions

- __init__ (self, str genre_name)
- genre_name (self)

Private Attributes

- __genre_name = genre_name

8.20.1 Detailed Description

```
Genre class
```

8.20.2 Constructor & Destructor Documentation

8.20.2.1 __init__()

```
audio_collection.MainEntities.genre.Genre.__init__ (
              self,
             str genre_name)
```

```
Constructor
:param genre_name: Genre name
```

8.20.3 Member Function Documentation

8.20.3.1 genre_name()

```
audio_collection.MainEntities.genre.Genre.genre_name (
              self)
```

8.20.4 Member Data Documentation

8.20.4.1 __genre_name

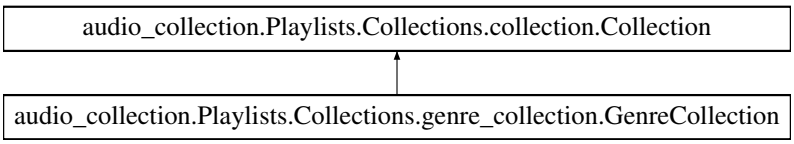
```
audio_collection.MainEntities.genre.Genre.__genre_name = genre_name  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/genre.py

8.21 audio_collection.Playlists.Collections.genre_collection.GenreCollection Class Reference

Inheritance diagram for audio_collection.Playlists.Collections.genre_collection.GenreCollection:



Public Member Functions

- __init__ (self, Playlist playlist, Genre genre)
- genre (self)
- tracks (self)

Public Member Functions inherited from audio_collection.Playlists.Collections.collection.Collection

- __init__ (self, Playlist playlist)
- playlist (self)

Private Attributes

- __tracks = playlist.tracks
- __genre = genre

8.21.1 Detailed Description

```
Genre collection class
```

8.21.2 Constructor & Destructor Documentation

8.21.2.1 __init__()

```
audio_collection.Playlists.Collections.genre_collection.GenreCollection.__init__ (
              self,
             Playlist playlist,
             Genre genre)
```

```
Constructor
:param playlist: A playlist to create genre collection from
:param genre: Collection genre
```

8.21.3 Member Function Documentation

8.21.3.1 genre()

```
audio_collection.Playlists.Collections.genre_collection.GenreCollection.genre (
              self)
```

8.21.3.2 tracks()

```
audio_collection.Playlists.Collections.genre_collection.GenreCollection.tracks (
              self)
```

```
Returns collection tracks
:return: collection tracks
```

8.21.4 Member Data Documentation

8.21.4.1 __genre

```
audio_collection.Playlists.Collections.genre_collection.GenreCollection.__genre = genre  [private]
```

8.21.4.2 __tracks

```
audio_collection.Playlists.Collections.genre_collection.GenreCollection.__tracks = playlist.↩
tracks  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/Playlists/Collections/genre_collection.py

8.22 audio_collection.Playlists.history.History Class Reference

Public Member Functions

- __init__ (self)
- append (self, Track track)
- __str__ (self)

Private Attributes

- list __tracks = [ ]

8.22.1 Detailed Description

```
History class
```

8.22.2 Constructor & Destructor Documentation

8.22.2.1 __init__()

```
audio_collection.Playlists.history.History.__init__ (
            self)
```

8.22.3 Member Function Documentation

8.22.3.1 __str__()

```
audio_collection.Playlists.history.History.__str__ (
            self)
```

8.22.3.2 append()

```
audio_collection.Playlists.history.History.append (
               self,
              Track track)
```

```
Adds track to history
:param track: Track to add
:return: Updated history
```

8.22.4 Member Data Documentation

8.22.4.1 __tracks

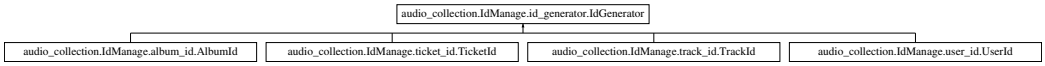
```
list audio_collection.Playlists.history.History.__tracks = []  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/Playlists/history.py

8.23 audio_collection.IdManage.id_generator.IdGenerator Class Reference

Inheritance diagram for audio_collection.IdManage.id_generator.IdGenerator:



Public Member Functions

- generate_id (cls)

Static Private Attributes

- int __private_id = 0

8.23.1 Detailed Description

```
Id generator base class
```

8.23.2 Member Function Documentation

8.23.2.1 generate_id()

```
audio_collection.IdManage.id_generator.IdGenerator.generate_id (
              cls)
```

Reimplemented in audio_collection.IdManage.album_id.AlbumId, audio_collection.IdManage.ticket_id.TicketId, audio_collection.IdManage.track_id.TrackId, and audio_collection.IdManage.user_id.UserId.

8.23.3 Member Data Documentation

8.23.3.1 __private_id

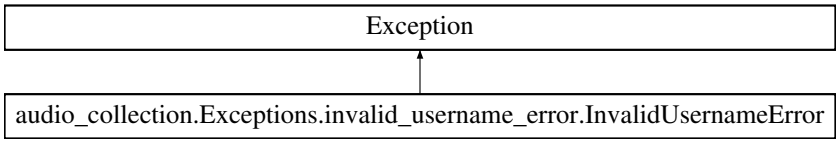
```
int audio_collection.IdManage.id_generator.IdGenerator.__private_id = 0  [static], [private]
```

The documentation for this class was generated from the following file:

- audio_collection/IdManage/id_generator.py

8.24 audio_collection.Exceptions.invalid_username_error.InvalidUsernameError Class Reference

Inheritance diagram for audio_collection.Exceptions.invalid_username_error.InvalidUsernameError:



Public Member Functions

- __init__ (self, str message)

8.24.1 Detailed Description

```
Invalid username error exception
```

8.24.2 Constructor & Destructor Documentation

8.24.2.1 __init__()

```
audio_collection.Exceptions.invalid_username_error.InvalidUsernameError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/invalid_username_error.py

8.25 audio_collection.MainEntities.label.Label Class Reference

Public Member Functions

- __init__ (self, str name)
- name (self)
- country (self)
- founded_year (self)
- artists (self)
- add_artist (self, Artist artist)
- remove_artist (self, Artist artist)
- get_artist_info (self)

Private Attributes

- __name = name
- str __country = ""
- int __founded_year = 0
- list __artists = [ ]

8.25.1 Detailed Description

```
Label class
```

8.25.2 Constructor & Destructor Documentation

8.25.2.1 __init__()

```
audio_collection.MainEntities.label.Label.__init__ (
              self,
             str name)
```

```
Constructor
:param name: Label name
```

8.25.3 Member Function Documentation

8.25.3.1 add_artist()

```
audio_collection.MainEntities.label.Label.add_artist (
              self,
             Artist artist)
```

8.25.3.2 artists()

```
audio_collection.MainEntities.label.Label.artists (
              self)
```

8.25.3.3 country()

```
audio_collection.MainEntities.label.Label.country (
              self)
```

8.25.3.4 founded_year()

```
audio_collection.MainEntities.label.Label.founded_year (
              self)
```

8.25.3.5 get_artist_info()

```
audio_collection.MainEntities.label.Label.get_artist_info (
              self)
```

```
Returns information about all artists signed to the label
:return: list of dicts with artist names and number of albums
```

8.25.3.6 name()

```
audio_collection.MainEntities.label.Label.name (
              self)
```

8.25.3.7 remove_artist()

```
audio_collection.MainEntities.label.Label.remove_artist (
              self,
             Artist artist)
```

```
Removes an artist from the label if present
:param artist: Artist instance
```

8.25.4 Member Data Documentation

8.25.4.1 __artists

```
list audio_collection.MainEntities.label.Label.__artists = []  [private]
```

8.25.4.2 __country

```
str audio_collection.MainEntities.label.Label.__country = ""  [private]
```

8.25.4.3 __founded_year

```
int audio_collection.MainEntities.label.Label.__founded_year = 0  [private]
```

8.25.4.4 __name

```
audio_collection.MainEntities.label.Label.__name = name  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/label.py

8.26 audio_collection.Community.like.Like Class Reference

Public Member Functions

- __init__ (self, object target)
- __repr__ (self)

Public Attributes

- target = target

8.26.1 Detailed Description

```
Like class
```

8.26.2 Constructor & Destructor Documentation

8.26.2.1 __init__()

```
audio_collection.Community.like.Like.__init__ (
              self,
             object target)


Constructor
:param target: object
```

8.26.3 Member Function Documentation

8.26.3.1 __repr__()

```
audio_collection.Community.like.Like.__repr__ (
              self)
```

8.26.4 Member Data Documentation

8.26.4.1 target

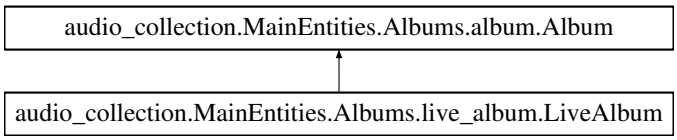
```
audio_collection.Community.like.Like.target = target
```

The documentation for this class was generated from the following file:

- audio_collection/Community/like.py

8.27 audio_collection.MainEntities.Albums.live_album.LiveAlbum Class Reference

Inheritance diagram for audio_collection.MainEntities.Albums.live_album.LiveAlbum:



Public Member Functions

- __init__ (self, str title, list[Track] tracks, Genre genre, int year, Label label, City city)
- city (self)

Public Member Functions inherited from audio_collection.MainEntities.Albums.album.Album

- __init__ (self, str title, list[Track] tracks, Genre genre, int year, Label label)
- title (self)
- tracks (self)
- genre (self)
- year (self)
- label (self)
- rating (self)
- album_id (self)
- likes (self)
- get_liked (self)
- get_info (self)
- average_rating (self)
- add_rating (self, Rating rating)
- total_duration (self)

Private Attributes

- __city = city

Additional Inherited Members

Protected Attributes inherited from audio_collection.MainEntities.Albums.album.Album

- _title = title
- _tracks = tracks
- _genre = genre
- _year = year
- _label = label
- int _max_single_tracks = 3
- int _max_ep_tracks = 7
- list _rating = [ ]
- _id = AlbumId.generate_id()
- int _likes = 0

8.27.1 Detailed Description

```
Live album class
```

8.27.2 Constructor & Destructor Documentation

8.27.2.1 __init__()

```
audio_collection.MainEntities.Albums.live_album.LiveAlbum.__init__ (
              self,
             str title,
             list[Track] tracks,
             Genre genre,
             int year,
             Label label,
             City city)
```

```
Constructor
:param title: Live album title
:param tracks: Live album tracks
:param genre: Live album genre
:param year: Live album year
:param label: Live album label
:param city: Live album city
```

8.27.3 Member Function Documentation

8.27.3.1 city()

```
audio_collection.MainEntities.Albums.live_album.LiveAlbum.city (
              self)
```

8.27.4 Member Data Documentation

8.27.4.1 __city

```
audio_collection.MainEntities.Albums.live_album.LiveAlbum.__city = city  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Albums/live_album.py

8.28 audio_collection.Authentication.log_in.LogIn Class Reference

Public Member Functions

- log_in (cls, User user, Password password, users_file="users.json", passwords_file="passwords.json")

8.28.1 Detailed Description

```
LogIn class

Helps to log in system
```

8.28.2 Member Function Documentation

8.28.2.1 log_in()

```
audio_collection.Authentication.log_in.LogIn.log_in (
              cls,
             User user,
             Password password,
              users_file = "users.json",
              passwords_file = "passwords.json")
```

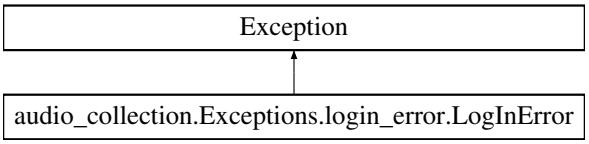
```
log in method

:param user: User
:param password: Password
:param users_file: "users.json"
:param passwords_file: "passwords.json"
```

The documentation for this class was generated from the following file:

- audio_collection/Authentication/log_in.py

8.29 audio_collection.Exceptions.login_error.LogInError Class Reference

Inheritance diagram for audio_collection.Exceptions.login_error.LogInError:



Public Member Functions

- __init__ (self, str message)

8.29.1 Detailed Description

```
Log in error exception
```

8.29.2 Constructor & Destructor Documentation

8.29.2.1 __init__()

```
audio_collection.Exceptions.login_error.LogInError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/login_error.py

8.30 audio_collection.Playlists.media_library.MediaLibrary Class Reference

Public Member Functions

- __init__ (self)
- favourite_tracks (self)
- add_favourite_track (self, track)
- playlists (self)
- artists (self)
- albums (self)
- add_to_library (self, object target)
- pin_artist (self, Artist artist)
- pin_album (self, Album album)
- pin_playlist (self, Playlist playlist)

Private Attributes

- list __playlists = [ ]
- list __artists = [ ]
- list __albums = [ ]
- __favourite_tracks = FavouriteTracks()

8.30.1 Detailed Description

```
Media library class
```

8.30.2 Constructor & Destructor Documentation

8.30.2.1 __init__()

```
audio_collection.Playlists.media_library.MediaLibrary.__init__ (
              self)
```

8.30.3 Member Function Documentation

8.30.3.1 add_favourite_track()

```
audio_collection.Playlists.media_library.MediaLibrary.add_favourite_track (
              self,
              track)
```

```
Adds track to fav
```

8.30.3.2 add_to_library()

```
audio_collection.Playlists.media_library.MediaLibrary.add_to_library (
              self,
             object target)
```

```
Adds object to library
:param target:Object to add to library
:return: Updated library
```

8.30.3.3 albums()

```
audio_collection.Playlists.media_library.MediaLibrary.albums (
              self)
```

8.30.3.4 artists()

```
audio_collection.Playlists.media_library.MediaLibrary.artists (
              self)
```

8.30.3.5 favourite_tracks()

```
audio_collection.Playlists.media_library.MediaLibrary.favourite_tracks (
              self)
```

8.30.3.6 pin_album()

```
audio_collection.Playlists.media_library.MediaLibrary.pin_album (
              self,
             Album album)
```

```
Pins an album
:param album: Album to pin
```

8.30.3.7 pin_artist()

```
audio_collection.Playlists.media_library.MediaLibrary.pin_artist (
              self,
             Artist artist)
```

```
Pins an artist
:param artist: Artist to pin
```

8.30.3.8 pin_playlist()

```
audio_collection.Playlists.media_library.MediaLibrary.pin_playlist (
              self,
             Playlist playlist)
```

```
Pins a playlist
:param playlist: Playlist to pin
```

8.30.3.9 playlists()

```
audio_collection.Playlists.media_library.MediaLibrary.playlists (
              self)
```

8.30.4 Member Data Documentation

8.30.4.1 __albums

```
list audio_collection.Playlists.media_library.MediaLibrary.__albums = []  [private]
```

8.30.4.2 __artists

```
list audio_collection.Playlists.media_library.MediaLibrary.__artists = []  [private]
```

8.30.4.3 __favourite_tracks

```
audio_collection.Playlists.media_library.MediaLibrary.__favourite_tracks = FavouriteTracks()
[private]
```

8.30.4.4 __playlists

```
list audio_collection.Playlists.media_library.MediaLibrary.__playlists = []  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/Playlists/media_library.py

8.31 audio_collection.MainEntities.Artists.musician.Musician Class Reference

Public Member Functions

- __init__ (self, str name)
- name (self)
- instruments (self)
- birth_year (self)
- get_info (self)

Private Attributes

- __name = name
- list __instruments = [ ]
- int __birth_year = 0

8.31.1 Detailed Description

```
Musician class
```

8.31.2 Constructor & Destructor Documentation

8.31.2.1 __init__()

```
audio_collection.MainEntities.Artists.musician.Musician.__init__ (
              self,
             str name)
```

```
Constructor
:param name: musician name
```

8.31.3 Member Function Documentation

8.31.3.1 birth_year()

```
audio_collection.MainEntities.Artists.musician.Musician.birth_year (
              self)
```

8.31.3.2 get_info()

```
audio_collection.MainEntities.Artists.musician.Musician.get_info (
              self)
```

```
A method to get info about musician
:return: musician info
```

8.31.3.3 instruments()

```
audio_collection.MainEntities.Artists.musician.Musician.instruments (
              self)
```

8.31.3.4 name()

```
audio_collection.MainEntities.Artists.musician.Musician.name (
              self)
```

8.31.4 Member Data Documentation

8.31.4.1 __birth_year

```
int audio_collection.MainEntities.Artists.musician.Musician.__birth_year = 0  [private]
```

8.31.4.2 __instruments

```
list audio_collection.MainEntities.Artists.musician.Musician.__instruments = []  [private]
```

8.31.4.3 __name

```
audio_collection.MainEntities.Artists.musician.Musician.__name = name  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Artists/musician.py

8.32 audio_collection.UserManage.password.Password Class Reference

Public Member Functions

- __init__ (self, str password)
- verify (self, str input_password)
- change (self, str old_password, str new_password)
- __str__ (self)
- get_password_only_for_reg (self)

Static Private Member Functions

- __is_strong (str password)

Private Attributes

- __password = password

8.32.1 Detailed Description

```
Password class
```

8.32.2 Constructor & Destructor Documentation

8.32.2.1 __init__()

```
audio_collection.UserManage.password.Password.__init__ (
              self,
             str password)
```

```
Constructor
:param password: password as str
```

8.32.3 Member Function Documentation

8.32.3.1 __is_strong()

```
audio_collection.UserManage.password.Password.__is_strong (
            str password)  [static], [private]
```

Checks if password is strong enough
:param password: password as str
:return: password is strong

8.32.3.2 __str__()

```
audio_collection.UserManage.password.Password.__str__ (
             self)
```

8.32.3.3 change()

```
audio_collection.UserManage.password.Password.change (
             self,
            str old_password,
            str new_password)
```

Changes the password
:param old_password: Old password
:param new_password: New password

8.32.3.4 get_password_only_for_reg()

```
audio_collection.UserManage.password.Password.get_password_only_for_reg (
             self)
```

8.32.3.5 verify()

```
audio_collection.UserManage.password.Password.verify (
             self,
            str input_password)
```

Verifies the password
:param input_password: Password as str

8.32.4 Member Data Documentation

8.32.4.1 __password

```
audio_collection.UserManage.password.Password.__password = password  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/UserManage/password.py

8.33 audio_collection.Subscription.personal_account.PersonalAccount Class Reference

Public Member Functions

- __init__ (self, int amount)
- amount (self)
- add_to_amount (self, int amount_to_add)
- subtract_from_amount (self, int amount_to_subtract)

Private Attributes

- __amount = amount

8.33.1 Detailed Description

```
Personal account class
```

8.33.2 Constructor & Destructor Documentation

8.33.2.1 __init__()

```
audio_collection.Subscription.personal_account.PersonalAccount.__init__ (
              self,
             int amount)
```

```
Constructor
:param amount: Amount on account
```

8.33.3 Member Function Documentation

8.33.3.1 add_to_amount()

```
audio_collection.Subscription.personal_account.PersonalAccount.add_to_amount (
              self,
             int amount_to_add)
```

```
Adds amount to account
:param amount_to_add: Amount to add to account
:return: Updated amount
```

8.33.3.2 amount()

```
audio_collection.Subscription.personal_account.PersonalAccount.amount (
              self)
```

8.33.3.3 subtract_from_amount()

```
audio_collection.Subscription.personal_account.PersonalAccount.subtract_from_amount (
              self,
             int amount_to_subtract)
```

```
Subtracts amount from account
:param amount_to_subtract: Amount to subtract from account
:return: Updated amount
```

8.33.4 Member Data Documentation

8.33.4.1 __amount

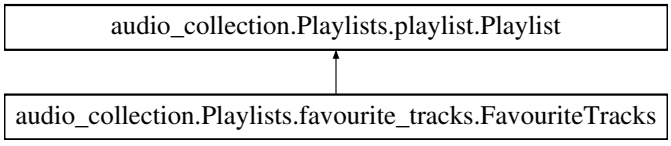
```
audio_collection.Subscription.personal_account.PersonalAccount.__amount = amount  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/Subscription/personal_account.py

8.34 audio_collection.Playlists.playlist.Playlist Class Reference

Inheritance diagram for audio_collection.Playlists.playlist.Playlist:



Public Member Functions

- __init__ (self, str name)
- name (self)
- current_track (self)
- tracks (self)
- duration (self)
- queue (self)
- history (self)
- get_formated_duration (self)
- add_track (self, Track track)
- delete_track (self, Track track)
- playlist_tracks (self)
- next_track (self)

Public Attributes

- current_track

Protected Attributes

- list _tracks = [ ]
- _duration = sum([i.duration for i in self._tracks])
- Track|None _current_track = None

Private Attributes

- __name = name
- __queue = Queue()
- __history = History()

8.34.1 Detailed Description

```
Playlist base class
```

8.34.2 Constructor & Destructor Documentation

8.34.2.1 __init__()

```
audio_collection.Playlists.playlist.Playlist.__init__ (
              self,
             str name)
```

```
Constructor
:param name: Playlist name
```

8.34.3 Member Function Documentation

8.34.3.1 add_track()

```
audio_collection.Playlists.playlist.Playlist.add_track (
              self,
             Track track)
```

```
Adds track to playlist
:param track: Track to add
:return: Updated playlist tracks
```

Reimplemented in audio_collection.Playlists.favourite_tracks.FavouriteTracks.

8.34.3.2 current_track()

```
audio_collection.Playlists.playlist.Playlist.current_track (
              self)
```

8.34.3.3 delete_track()

```
audio_collection.Playlists.playlist.Playlist.delete_track (
              self,
             Track track)
```

```
Deletes a track from playlist
:param track: Track to delete
:return: Updated playlist tracks
```

Reimplemented in audio_collection.Playlists.favourite_tracks.FavouriteTracks.

8.34.3.4 duration()

```
audio_collection.Playlists.playlist.Playlist.duration (
              self)
```

8.34.3.5 get_formated_duration()

```
audio_collection.Playlists.playlist.Playlist.get_formated_duration (
              self)
```

```
Returns playlist duration as minutes:seconds
:return:
```

8.34.3.6 history()

```
audio_collection.Playlists.playlist.Playlist.history (
              self)
```

8.34.3.7 name()

```
audio_collection.Playlists.playlist.Playlist.name (
              self)
```

8.34.3.8 next_track()

```
audio_collection.Playlists.playlist.Playlist.next_track (
              self)
```

```
Goes to next track
```

8.34.3.9 playlist_tracks()

```
audio_collection.Playlists.playlist.Playlist.playlist_tracks (
              self)
```

```
Returns all playlist tracks
:return: playlist tracks
```

8.34.3.10 queue()

```
audio_collection.Playlists.playlist.Playlist.queue (
              self)
```

8.34.3.11 tracks()

```
audio_collection.Playlists.playlist.Playlist.tracks (
              self)
```

Reimplemented in audio_collection.Playlists.favourite_tracks.FavouriteTracks.

8.34.4 Member Data Documentation

8.34.4.1 __history

```
audio_collection.Playlists.playlist.Playlist.__history = History()  [private]
```

8.34.4.2 __name

```
audio_collection.Playlists.playlist.Playlist.__name = name  [private]
```

8.34.4.3 __queue

```
audio_collection.Playlists.playlist.Playlist.__queue = Queue()  [private]
```

8.34.4.4 _current_track

```
Track | None audio_collection.Playlists.playlist.Playlist._current_track = None  [protected]
```

8.34.4.5 _duration

```
audio_collection.Playlists.playlist.Playlist._duration = sum([i.duration for i in self._↩
tracks])  [protected]
```

8.34.4.6 _tracks

```
list audio_collection.Playlists.playlist.Playlist._tracks = []  [protected]
```

8.34.4.7 current_track

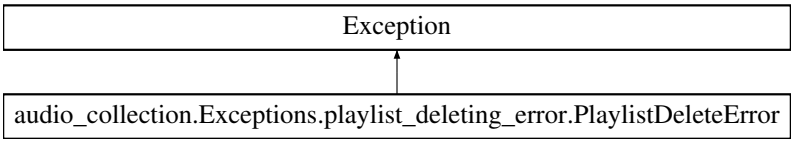
```
audio_collection.Playlists.playlist.Playlist.current_track
```

The documentation for this class was generated from the following file:

- audio_collection/Playlists/playlist.py

8.35 audio_collection.Exceptions.playlist_deleting_error.PlaylistDelete↩ Error Class Reference

Inheritance diagram for audio_collection.Exceptions.playlist_deleting_error.PlaylistDeleteError:



Public Member Functions

- __init__ (self, str message)

8.35.1 Detailed Description

```
Playlist delete error exception
```

8.35.2 Constructor & Destructor Documentation

8.35.2.1 __init__()

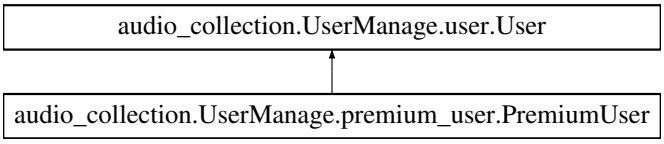
```
audio_collection.Exceptions.playlist_deleting_error.PlaylistDeleteError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/playlist_deleting_error.py

8.36 audio_collection.UserManage.premium_user.PremiumUser Class Reference

Inheritance diagram for audio_collection.UserManage.premium_user.PremiumUser:



Public Member Functions

- __init__ (self, Username username, UserProfile profile, Subscription subscription)
- months (self)
- collections (self)
- create_collection (self, Playlist playlist, Genre genre)
- extend_subscription (self, months)

Public Member Functions inherited from audio_collection.UserManage.user.User

- __init__ (self, Username username, UserProfile profile)
- username (self)
- playlists (self)
- amount (self)
- profile (self)
- likes (self)
- FavouriteTracks favourite_tracks (self)
- media (self)
- like (self, object target)
- create_playlist (self, str playlist_name)
- delete_playlist (self, str name_to_delete)
- add_to_amount (self, int add_value)
- buy_subscription (self, int months)
- comment_track (self, track, str text)
- update_bio (self, str new_bio)
- buy_ticket (self, Concert concert)

Private Attributes

- list __playlists = [ ]
- __subscription = subscription
- int __max_playlists = 20
- list __collections = [ ]

Additional Inherited Members

Static Public Member Functions inherited from audio_collection.UserManage.user.User

- rate_track (track, int rate)

Protected Attributes inherited from audio_collection.UserManage.user.User

- _user_id = UserId.generate_id()

8.36.1 Detailed Description

```
Premium user class
```

8.36.2 Constructor & Destructor Documentation

8.36.2.1 __init__()

```
audio_collection.UserManage.premium_user.PremiumUser.__init__ (
              self,
             Username username,
             UserProfile profile,
             Subscription subscription)
```

```
Constructor
:param username: Premium user username
:param profile: Premium user profile
:param subscription: Subscription
```

8.36.3 Member Function Documentation

8.36.3.1 collections()

```
audio_collection.UserManage.premium_user.PremiumUser.collections (
              self)
```

8.36.3.2 create_collection()

```
audio_collection.UserManage.premium_user.PremiumUser.create_collection (
              self,
             Playlist playlist,
             Genre genre)
```

```
Creates collection from a selected playlists
:param playlist: Playlist to create a collection from
:param genre: Genre to create a collection on
```

8.36.3.3 extend_subscription()

```
audio_collection.UserManage.premium_user.PremiumUser.extend_subscription (
              self,
              months)
```

8.36.3.4 months()

```
audio_collection.UserManage.premium_user.PremiumUser.months (
              self)
```

8.36.4 Member Data Documentation

8.36.4.1 __collections

```
list audio_collection.UserManage.premium_user.PremiumUser.__collections = []  [private]
```

8.36.4.2 __max_playlists

```
int audio_collection.UserManage.premium_user.PremiumUser.__max_playlists = 20  [private]
```

8.36.4.3 __playlists

```
list audio_collection.UserManage.premium_user.PremiumUser.__playlists = []  [private]
```

8.36.4.4 __subscription

```
audio_collection.UserManage.premium_user.PremiumUser.__subscription = subscription  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/UserManage/premium_user.py

8.37 audio_collection.Playback.queue.Queue Class Reference

Public Member Functions

- __init__ (self)
- add_to_queue (self, Track track)
- remove_from_queue (self, Track track)
- queue_next (self)
- clear_queue (self)
- show_queue (self)
- __len__ (self)

Private Attributes

- list __queue = [ ]

8.37.1 Detailed Description

```
Queue class
```

8.37.2 Constructor & Destructor Documentation

8.37.2.1 __init__()

```
audio_collection.Playback.queue.Queue.__init__ (
              self)
```

8.37.3 Member Function Documentation

8.37.3.1 __len__()

```
audio_collection.Playback.queue.Queue.__len__ (
              self)
```

8.37.3.2 add_to_queue()

```
audio_collection.Playback.queue.Queue.add_to_queue (
              self,
             Track track)
```

```
Adds track to queue
:param track: Track to add
:return: Updated queue
```

8.37.3.3 clear_queue()

```
audio_collection.Playback.queue.Queue.clear_queue (
              self)
```

Clears all queue
:return: Updated queue

8.37.3.4 queue_next()

```
audio_collection.Playback.queue.Queue.queue_next (
              self)
```

Skips the track

8.37.3.5 remove_from_queue()

```
audio_collection.Playback.queue.Queue.remove_from_queue (
              self,
             Track track)
```

Removes track from queue
:param track: Track to remove
:return: Updated queue

8.37.3.6 show_queue()

```
audio_collection.Playback.queue.Queue.show_queue (
              self)
```

Shows tracks in queue
:return: Updated queue

8.37.4 Member Data Documentation

8.37.4.1 __queue

```
audio_collection.Playback.queue.Queue.__queue = []  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/Playback/queue.py

8.38 audio_collection.Community.rating.Rating Class Reference

Public Member Functions

- __init__ (self, int rating)
- __int__ (self)

Private Attributes

- __rating = rating

8.38.1 Detailed Description

```
Rating class
```

8.38.2 Constructor & Destructor Documentation

8.38.2.1 __init__()

```
audio_collection.Community.rating.Rating.__init__ (
              self,
             int rating)
```

```
Constructor
:param rating: int
```

8.38.3 Member Function Documentation

8.38.3.1 __int__()

```
audio_collection.Community.rating.Rating.__int__ (
              self)
```

8.38.4 Member Data Documentation

8.38.4.1 __rating

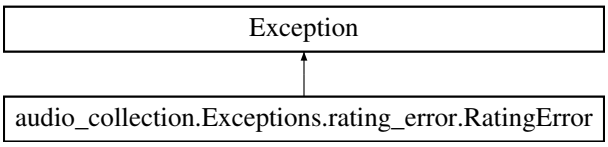
```
audio_collection.Community.rating.Rating.__rating = rating  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/Community/rating.py

8.39 audio_collection.Exceptions.rating_error.RatingError Class Reference

Inheritance diagram for audio_collection.Exceptions.rating_error.RatingError:



Public Member Functions

- __init__ (self, str message)

8.39.1 Detailed Description

```
Rating error exception
```

8.39.2 Constructor & Destructor Documentation

8.39.2.1 __init__()

```
audio_collection.Exceptions.rating_error.RatingError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/rating_error.py

8.40 audio_collection.Authentication.register.Register Class Reference

Public Member Functions

- register_user (cls, User user, filepath="users.json")
- set_password (cls, User user, Password password, filepath="passwords.json")

8.40.1 Detailed Description

```
Register class
```

8.40.2 Member Function Documentation

8.40.2.1 register_user()

```
audio_collection.Authentication.register.Register.register_user (
              cls,
             User user,
              filepath = "users.json")
```

```
user register method
registers the user and puts to file with users
:param user: User
:param filepath: "users.json"
```

8.40.2.2 set_password()

```
audio_collection.Authentication.register.Register.set_password (
              cls,
             User user,
             Password password,
              filepath = "passwords.json")
```

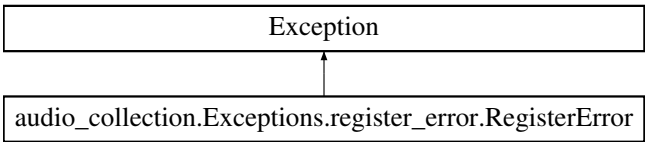
```
password setter method
sets password for a user
:param user: User
:param password: Password
:param filepath: "passwords.json"
:return: password is successfully set
```

The documentation for this class was generated from the following file:

- audio_collection/Authentication/register.py

8.41 audio_collection.Exceptions.register_error.RegisterError Class Reference

Inheritance diagram for audio_collection.Exceptions.register_error.RegisterError:



Public Member Functions

- __init__ (self, str message)

8.41.1 Detailed Description

```
Register error exception
```

8.41.2 Constructor & Destructor Documentation

8.41.2.1 __init__()

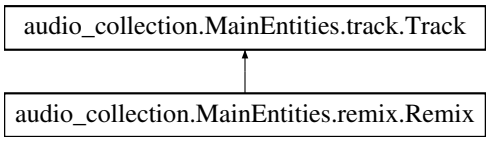
```
audio_collection.Exceptions.register_error.RegisterError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/register_error.py

8.42 audio_collection.MainEntities.remix.Remix Class Reference

Inheritance diagram for audio_collection.MainEntities.remix.Remix:



Public Member Functions

- __init__ (self, str title, Genre genre, Artist author)
- author (self)

Public Member Functions inherited from audio_collection.MainEntities.track.Track

- __init__ (self, str title, Genre genre)
- title (self)
- duration (self)
- genre (self)
- track_id (self)
- lyrics (self)
- normalized_name (self)
- statistics (self)
- equalizer (self)
- likes (self)
- adjust_equalizer (self, bass=None, mid=None, treble=None)
- formated_duration (self)
- add_lyrics (self, str lyrics)
- add_comment (self, text)
- add_rate (self, int rate)
- play (self)
- add_like (self)
- get_total_comments (self)

Private Attributes

- __author = author

8.42.1 Detailed Description

```
Remix class
```

8.42.2 Constructor & Destructor Documentation

8.42.2.1 __init__()

```
audio_collection.MainEntities.remix.Remix.__init__ (
              self,
             str title,
             Genre genre,
             Artist author)
```

```
Constructor
:param title: Remix title
:param genre: Remix genre
:param author: Remix author
```

8.42.3 Member Function Documentation

8.42.3.1 author()

```
audio_collection.MainEntities.remix.Remix.author (
              self)
```

8.42.4 Member Data Documentation

8.42.4.1 __author

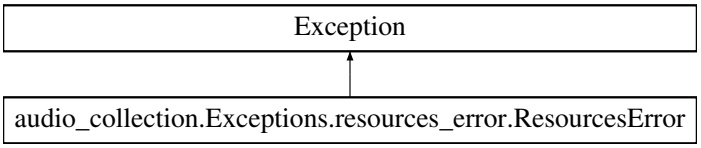
```
audio_collection.MainEntities.remix.Remix.__author = author  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/remix.py

8.43 audio_collection.Exceptions.resources_error.ResourcesError Class Reference

Inheritance diagram for audio_collection.Exceptions.resources_error.ResourcesError:



Public Member Functions

- __init__ (self, str message)

8.43.1 Detailed Description

```
Recourses error exception
```

8.43.2 Constructor & Destructor Documentation

8.43.2.1 __init__()

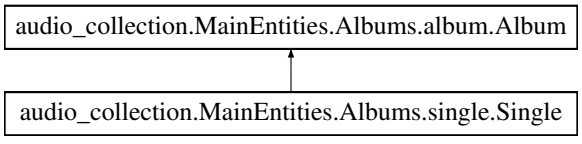
```
audio_collection.Exceptions.resources_error.ResourcesError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/resources_error.py

8.44 audio_collection.MainEntities.Albums.single.Single Class Reference

Inheritance diagram for audio_collection.MainEntities.Albums.single.Single:



Public Member Functions

- __init__ (self, str title, list[Track] tracks, Genre genre, int year, Label label)

Public Member Functions inherited from audio_collection.MainEntities.Albums.album.Album

- __init__ (self, str title, list[Track] tracks, Genre genre, int year, Label label)
- title (self)
- tracks (self)
- genre (self)
- year (self)
- label (self)
- rating (self)
- album_id (self)
- likes (self)
- get_liked (self)
- get_info (self)
- average_rating (self)
- add_rating (self, Rating rating)
- total_duration (self)

Additional Inherited Members

Protected Attributes inherited from audio_collection.MainEntities.Albums.album.Album

- _title = title
- _tracks = tracks
- _genre = genre
- _year = year
- _label = label
- int _max_single_tracks = 3
- int _max_ep_tracks = 7
- list _rating = []
- _id = AlbumId.generate_id()
- int _likes = 0

8.44.1 Detailed Description

```
Single(album) class
```

8.44.2 Constructor & Destructor Documentation

8.44.2.1 __init__()

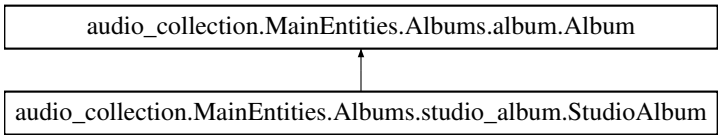
```
audio_collection.MainEntities.Albums.single.Single.__init__ (
              self,
             str title,
             list[Track] tracks,
             Genre genre,
             int year,
             Label label)

Constructor
:param title: Single title
:param tracks: Single tracks
:param genre: Single genre
:param year: Single year
:param label: Single label
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Albums/single.py

8.45 audio_collection.MainEntities.Albums.studio_album.StudioAlbum Class Reference

Inheritance diagram for audio_collection.MainEntities.Albums.studio_album.StudioAlbum:



Public Member Functions

- __init__ (self, str title, list[Track] tracks, Genre genre, int year, Label label)

Public Member Functions inherited from audio_collection.MainEntities.Albums.album.Album

- __init__ (self, str title, list[Track] tracks, Genre genre, int year, Label label)
- title (self)
- tracks (self)
- genre (self)
- year (self)
- label (self)
- rating (self)
- album_id (self)
- likes (self)
- get_liked (self)
- get_info (self)
- average_rating (self)
- add_rating (self, Rating rating)
- total_duration (self)

Additional Inherited Members

Protected Attributes inherited from audio_collection.MainEntities.Albums.album.Album

- _title = title
- _tracks = tracks
- _genre = genre
- _year = year
- _label = label
- int _max_single_tracks = 3
- int _max_ep_tracks = 7
- list _rating = [ ]
- _id = AlbumId.generate_id()
- int _likes = 0

8.45.1 Detailed Description

```
Studio album class
```

8.45.2 Constructor & Destructor Documentation

8.45.2.1 __init__()

```
audio_collection.MainEntities.Albums.studio_album.StudioAlbum.__init__ (
              self,
             str title,
             list[Track] tracks,
             Genre genre,
             int year,
             Label label)
```

```
Constructor
:param title: Studio album title
:param tracks: Studio album tracks
:param genre: Studio album genre
:param year: Studio album year
:param label: Studio album label
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Albums/studio_album.py

8.46 audio_collection.Subscription.subscription.Subscription Class Reference

Public Member Functions

- __init__ (self, int months)
- months (self)
- month_cost (self)
- extend_subscription (self, int months)
- stop_subscription (self)

Private Attributes

- int __months = months
- int __month_cost = 10

8.46.1 Detailed Description

```
Subscription class
```

8.46.2 Constructor & Destructor Documentation

8.46.2.1 __init__()

```
audio_collection.Subscription.subscription.Subscription.__init__ (
              self,
             int months)
```

```
Constructor
:param months: Subscription months
```

8.46.3 Member Function Documentation

8.46.3.1 extend_subscription()

```
audio_collection.Subscription.subscription.Subscription.extend_subscription (
              self,
             int months)
```

```
Extend subscription
:param months: Months to extend subscription
:return:
```

8.46.3.2 month_cost()

```
audio_collection.Subscription.subscription.Subscription.month_cost (
              self)
```

8.46.3.3 months()

```
audio_collection.Subscription.subscription.Subscription.months (
              self)
```

8.46.3.4 stop_subscription()

```
audio_collection.Subscription.subscription.Subscription.stop_subscription (
              self)
```

```
Stops the subscription
```

8.46.4 Member Data Documentation

8.46.4.1 __month_cost

```
int audio_collection.Subscription.subscription.Subscription.__month_cost = 10  [private]
```

8.46.4.2 __months

```
int audio_collection.Subscription.subscription.Subscription.__months = months  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/Subscription/subscription.py

8.47 audio_collection.MainEntities.Artists.ticket.Ticket Class Reference

Public Member Functions

- __init__ (self, Concert concert)
- concert (self)
- ticket_id (self)
- is_used (self)
- seat_number (self)
- price (self)
- use_ticket (self)
- assign_seat (self, str seat_number)
- get_ticket_info (self)

Private Attributes

- __concert = concert
- __ticket_id = TicketId.generate_id()
- bool __is_used = False
- __seat_number = None
- __price = concert.ticket_price

8.47.1 Detailed Description

```
Ticket class
```

8.47.2 Constructor & Destructor Documentation

8.47.2.1 __init__()

```
audio_collection.MainEntities.Artists.ticket.Ticket.__init__ (
              self,
             Concert concert)
```

```
Constructor
:param concert: Concert
```

8.47.3 Member Function Documentation

8.47.3.1 assign_seat()

```
audio_collection.MainEntities.Artists.ticket.Ticket.assign_seat (
              self,
             str seat_number)
```

```
Assign a seat number to the ticket
:param seat_number: Seat identifier
```

8.47.3.2 concert()

```
audio_collection.MainEntities.Artists.ticket.Ticket.concert (
              self)
```

8.47.3.3 get_ticket_info()

```
audio_collection.MainEntities.Artists.ticket.Ticket.get_ticket_info (
              self)
```

```
Returns detailed ticket information
:return: dict with ticket ID, concert, seat, price, and used status
```

8.47.3.4 is_used()

```
audio_collection.MainEntities.Artists.ticket.Ticket.is_used (
              self)
```

8.47.3.5 price()

```
audio_collection.MainEntities.Artists.ticket.Ticket.price (
              self)
```

8.47.3.6 seat_number()

```
audio_collection.MainEntities.Artists.ticket.Ticket.seat_number (
              self)
```

8.47.3.7 ticket_id()

```
audio_collection.MainEntities.Artists.ticket.Ticket.ticket_id (
              self)
```

8.47.3.8 use_ticket()

```
audio_collection.MainEntities.Artists.ticket.Ticket.use_ticket (
              self)
```

Marks the ticket as used.
:return: True if ticket was successfully used, False if already used

8.47.4 Member Data Documentation

8.47.4.1 __concert

```
audio_collection.MainEntities.Artists.ticket.Ticket.__concert = concert  [private]
```

8.47.4.2 __is_used

```
bool audio_collection.MainEntities.Artists.ticket.Ticket.__is_used = False  [private]
```

8.47.4.3 __price

```
audio_collection.MainEntities.Artists.ticket.Ticket.__price = concert.ticket_price  [private]
```

8.47.4.4 __seat_number

```
audio_collection.MainEntities.Artists.ticket.Ticket.__seat_number = None  [private]
```

8.47.4.5 __ticket_id

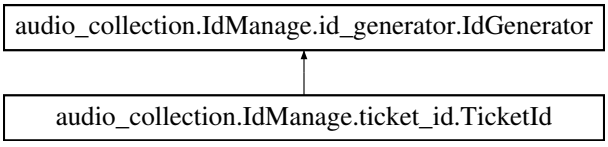
```
audio_collection.MainEntities.Artists.ticket.Ticket.__ticket_id = TicketId.generate_id()  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Artists/ticket.py

8.48 audio_collection.IdManage.ticket_id.TicketId Class Reference

Inheritance diagram for audio_collection.IdManage.ticket_id.TicketId:



Public Member Functions

- generate_id (cls)

Static Private Attributes

- int __ticket_id = 0

8.48.1 Detailed Description

```
Ticket id class
```

8.48.2 Member Function Documentation

8.48.2.1 generate_id()

```
audio_collection.IdManage.ticket_id.TicketId.generate_id (
              cls)
```

```
Generates ticket id
:return: ticket id
```

Reimplemented from audio_collection.IdManage.id_generator.IdGenerator.

8.48.3 Member Data Documentation

8.48.3.1 __ticket_id

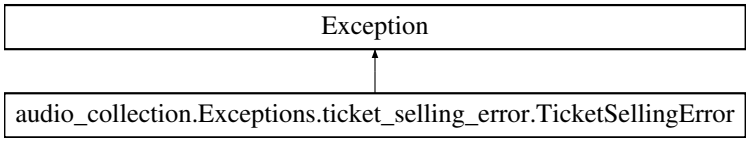
```
int audio_collection.IdManage.ticket_id.TicketId.__ticket_id = 0  [static], [private]
```

The documentation for this class was generated from the following file:

- audio_collection/IdManage/ticket_id.py

8.49 audio_collection.Exceptions.ticket_selling_error.TicketSellingError Class Reference

Inheritance diagram for audio_collection.Exceptions.ticket_selling_error.TicketSellingError:



Public Member Functions

- __init__ (self, str message)

8.49.1 Detailed Description

```
Ticket selling error exception
```

8.49.2 Constructor & Destructor Documentation

8.49.2.1 __init__()

```
audio_collection.Exceptions.ticket_selling_error.TicketSellingError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/ticket_selling_error.py

8.50 audio_collection.MainEntities.Artists.tour.Tour Class Reference

Public Member Functions

- __init__ (self, Artist artist, list[Concert] concerts)
- artist (self)
- ticket_amount (self)
- concerts (self)
- cities (self)

Private Attributes

- __artist = artist
- __concerts = concerts
- __ticket_amount = sum(i.ticket_amount for i in self.__concerts)
- list __cities = [i.city for i in concerts]

8.50.1 Detailed Description

```
Tour class
```

8.50.2 Constructor & Destructor Documentation

8.50.2.1 __init__()

```
audio_collection.MainEntities.Artists.tour.Tour.__init__ (
              self,
             Artist artist,
             list[Concert] concerts)
```

```
Constructor
:param artist: Artist
:param concerts: Tour concerts
```

8.50.3 Member Function Documentation

8.50.3.1 artist()

```
audio_collection.MainEntities.Artists.tour.Tour.artist (
              self)
```

8.50.3.2 cities()

```
audio_collection.MainEntities.Artists.tour.Tour.cities (
              self)
```

8.50.3.3 concerts()

```
audio_collection.MainEntities.Artists.tour.Tour.concerts (
              self)
```

8.50.3.4 ticket_amount()

```
audio_collection.MainEntities.Artists.tour.Tour.ticket_amount (
              self)
```

8.50.4 Member Data Documentation

8.50.4.1 __artist

```
audio_collection.MainEntities.Artists.tour.Tour.__artist = artist  [private]
```

8.50.4.2 __cities

```
list audio_collection.MainEntities.Artists.tour.Tour.__cities = [i.city for i in concerts]
[private]
```

8.50.4.3 __concerts

```
audio_collection.MainEntities.Artists.tour.Tour.__concerts = concerts  [private]
```

8.50.4.4 __ticket_amount

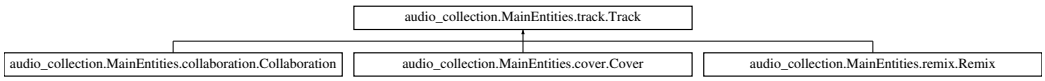
```
audio_collection.MainEntities.Artists.tour.Tour.__ticket_amount = sum(i.ticket_amount for i in
self.__concerts)  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Artists/tour.py

8.51 audio_collection.MainEntities.track.Track Class Reference

Inheritance diagram for audio_collection.MainEntities.track.Track:



Public Member Functions

- __init__ (self, str title, Genre genre)
- title (self)
- duration (self)
- genre (self)
- track_id (self)
- lyrics (self)
- normalized_name (self)
- statistics (self)
- equalizer (self)
- likes (self)
- adjust_equalizer (self, bass=None, mid=None, treble=None)
- formated_duration (self)
- add_lyrics (self, str lyrics)
- add_comment (self, text)
- add_rate (self, int rate)
- play (self)
- add_like (self)
- get_total_comments (self)

Private Attributes

- __title = title
- Duration __duration = Duration(0)
- __genre = genre
- __track_id = TrackId.generate_id()
- __lyrics = TrackLyrics()
- __statistics = TrackStatistics()
- __equalizer = Equalizer()

8.51.1 Detailed Description

```
Track base class
```

8.51.2 Constructor & Destructor Documentation

8.51.2.1 __init__()

```
audio_collection.MainEntities.track.Track.__init__ (
              self,
             str title,
             Genre genre)
```

```
Constructor
:param title: Track title
:param genre: Track genre
```

8.51.3 Member Function Documentation

8.51.3.1 add_comment()

```
audio_collection.MainEntities.track.Track.add_comment (
              self,
              text)
```

```
Adds comment to the track
:param text: Comment
:return: Updated statistics
```

8.51.3.2 add_like()

```
audio_collection.MainEntities.track.Track.add_like (
              self)
```

```
Adds a like to the track
```

8.51.3.3 add_lyrics()

```
audio_collection.MainEntities.track.Track.add_lyrics (
              self,
             str lyrics)
```

```
Adds track lyrics
:param lyrics: Lyrics to add
:return: Updated track lyrics
```

8.51.3.4 add_rate()

```
audio_collection.MainEntities.track.Track.add_rate (
              self,
             int rate)
```

```
Adds a rate to track
:param rate: Rate from 1 to 5
:return: Track rating
```

8.51.3.5 adjust_equalizer()

```
audio_collection.MainEntities.track.Track.adjust_equalizer (
              self,
              bass = None,
              mid = None,
              treble = None)
```

```
A method to set the equalizer settings
:param bass: Bass
:param mid: Mid
:param treble: Treble
:return: Equalizer with set settings
```

8.51.3.6 duration()

```
audio_collection.MainEntities.track.Track.duration (
              self)
```

8.51.3.7 equalizer()

```
audio_collection.MainEntities.track.Track.equalizer (
              self)
```

8.51.3.8 formated_duration()

```
audio_collection.MainEntities.track.Track.formated_duration (
              self)
```

```
A method to get track duration as minutes:seconds
:return: track formated duration
```

8.51.3.9 genre()

```
audio_collection.MainEntities.track.Track.genre (
              self)
```

8.51.3.10 get_total_comments()

```
audio_collection.MainEntities.track.Track.get_total_comments (
              self)
```

```
Returns the total number of comments for the track
:return: Number of comments
```

8.51.3.11 likes()

```
audio_collection.MainEntities.track.Track.likes (
              self)
```

8.51.3.12 lyrics()

```
audio_collection.MainEntities.track.Track.lyrics (
              self)
```

8.51.3.13 normalized_name()

```
audio_collection.MainEntities.track.Track.normalized_name (
              self)
```

```
A method to get track name as:
"Track Name" -> "trackname"
:return: Normalized track name
```

8.51.3.14 play()

```
audio_collection.MainEntities.track.Track.play (
              self)
```

```
Simulates playing the track
:return: String with track playback info
```

8.51.3.15 statistics()

```
audio_collection.MainEntities.track.Track.statistics (
              self)
```

8.51.3.16 title()

```
audio_collection.MainEntities.track.Track.title (
              self)
```

8.51.3.17 track_id()

```
audio_collection.MainEntities.track.Track.track_id (
              self)
```

8.51.4 Member Data Documentation

8.51.4.1 __duration

```
Duration audio_collection.MainEntities.track.Track.__duration = Duration(0)  [private]
```

8.51.4.2 __equalizer

```
audio_collection.MainEntities.track.Track.__equalizer = Equalizer()  [private]
```

8.51.4.3 __genre

```
audio_collection.MainEntities.track.Track.__genre = genre  [private]
```

8.51.4.4 __lyrics

```
audio_collection.MainEntities.track.Track.__lyrics = TrackLyrics()  [private]
```

8.51.4.5 __statistics

```
audio_collection.MainEntities.track.Track.__statistics = TrackStatistics()  [private]
```

8.51.4.6 __title

```
audio_collection.MainEntities.track.Track.__title = title  [private]
```

8.51.4.7 __track_id

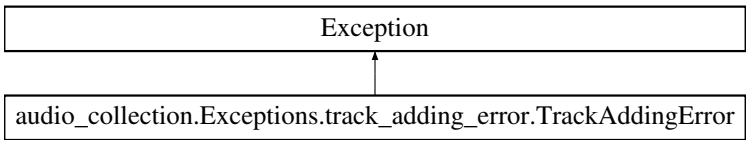
```
audio_collection.MainEntities.track.Track.__track_id = TrackId.generate_id()  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/track.py

8.52 audio_collection.Exceptions.track_adding_error.TrackAddingError Class Reference

Inheritance diagram for audio_collection.Exceptions.track_adding_error.TrackAddingError:



Public Member Functions

- __init__ (self, str message)

8.52.1 Detailed Description

```
Track adding error exception
```

8.52.2 Constructor & Destructor Documentation

8.52.2.1 __init__()

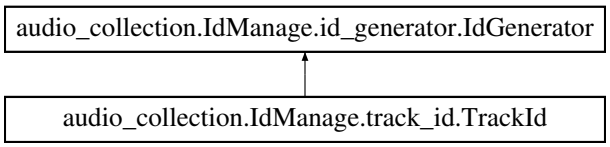
```
audio_collection.Exceptions.track_adding_error.TrackAddingError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/track_adding_error.py

8.53 audio_collection.IdManage.track_id.TrackId Class Reference

Inheritance diagram for audio_collection.IdManage.track_id.TrackId:



Public Member Functions

- generate_id (cls)

Static Private Attributes

- int __track_id = 0

8.53.1 Detailed Description

```
Track id class
```

8.53.2 Member Function Documentation

8.53.2.1 generate_id()

```
audio_collection.IdManage.track_id.TrackId.generate_id (
              cls)
```

```
Generates track id
:return: track id
```

Reimplemented from audio_collection.IdManage.id_generator.IdGenerator.

8.53.3 Member Data Documentation

8.53.3.1 __track_id

```
int audio_collection.IdManage.track_id.TrackId.__track_id = 0  [static], [private]
```

The documentation for this class was generated from the following file:

- audio_collection/IdManage/track_id.py

8.54 audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics Class Reference

Public Member Functions

- __init__ (self)
- lyrics (self)
- upload_lyrics (self, str lyrics)

Private Attributes

- str __lyrics = ""

8.54.1 Constructor & Destructor Documentation

8.54.1.1 __init__()

```
audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics.__init__ (
              self)
```

Track lyrics class

8.54.2 Member Function Documentation

8.54.2.1 lyrics()

```
audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics.lyrics (
              self)
```

8.54.2.2 upload_lyrics()

```
audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics.upload_lyrics (
              self,
             str lyrics)
```

8.54.3 Member Data Documentation

8.54.3.1 __lyrics

```
str audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics.__lyrics = ""  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/MainEntities/Artists/track_lyrics.py

8.55 audio_collection.Playback.track_statistics.TrackStatistics Class Reference

Public Member Functions

- __init__ (self)
- streams (self)
- likes (self)
- comments (self)
- ratings (self)
- rating (self)
- stats (self)
- add_stream (self)
- add_like (self, Like like)
- remove_like (self, Like like)
- add_comment (self, Comment comment)
- remove_comment (self, Comment comment)
- add_rating (self, Rating rating)
- clear_stats (self)
- most_recent_comment (self)
- total_likes (self)
- total_comments (self)
- total_ratings (self)

Public Attributes

- rating

Private Attributes

- int __streams = 0
- list __likes = [ ]
- list __comments = [ ]
- list __ratings = [ ]

8.55.1 Detailed Description

```
Track statistics class
```

8.55.2 Constructor & Destructor Documentation

8.55.2.1 __init__()

```
audio_collection.Playback.track_statistics.TrackStatistics.__init__ (
              self)
```

8.55.3 Member Function Documentation

8.55.3.1 add_comment()

```
audio_collection.Playback.track_statistics.TrackStatistics.add_comment (
              self,
             Comment comment)
```

```
Add a comment to the track
```

8.55.3.2 add_like()

```
audio_collection.Playback.track_statistics.TrackStatistics.add_like (
              self,
             Like like)
```

```
Add a like to the track
```

8.55.3.3 add_rating()

```
audio_collection.Playback.track_statistics.TrackStatistics.add_rating (
              self,
             Rating rating)
```

Add a rating to the track

8.55.3.4 add_stream()

```
audio_collection.Playback.track_statistics.TrackStatistics.add_stream (
              self)
```

Increment stream count by 1

8.55.3.5 clear_stats()

```
audio_collection.Playback.track_statistics.TrackStatistics.clear_stats (
              self)
```

Reset all statistics

8.55.3.6 comments()

```
audio_collection.Playback.track_statistics.TrackStatistics.comments (
              self)
```

8.55.3.7 likes()

```
audio_collection.Playback.track_statistics.TrackStatistics.likes (
              self)
```

8.55.3.8 most_recent_comment()

```
audio_collection.Playback.track_statistics.TrackStatistics.most_recent_comment (
              self)
```

Return the most recent comment, if any

8.55.3.9 rating()

```
audio_collection.Playback.track_statistics.TrackStatistics.rating (
              self)
```

8.55.3.10 ratings()

```
audio_collection.Playback.track_statistics.TrackStatistics.ratings (
              self)
```

8.55.3.11 remove_comment()

```
audio_collection.Playback.track_statistics.TrackStatistics.remove_comment (
              self,
             Comment comment)
```

Remove a comment from the track

8.55.3.12 remove_like()

```
audio_collection.Playback.track_statistics.TrackStatistics.remove_like (
              self,
             Like like)
```

Remove a like from the track

8.55.3.13 stats()

```
audio_collection.Playback.track_statistics.TrackStatistics.stats (
              self)
```

Shows the track stats
:return: track statistics as str

8.55.3.14 streams()

```
audio_collection.Playback.track_statistics.TrackStatistics.streams (
              self)
```

8.55.3.15 total_comments()

```
audio_collection.Playback.track_statistics.TrackStatistics.total_comments (
              self)
```

Return total number of comments

8.55.3.16 total_likes()

```
audio_collection.Playback.track_statistics.TrackStatistics.total_likes (
              self)
```

Return total number of likes

8.55.3.17 total_ratings()

```
audio_collection.Playback.track_statistics.TrackStatistics.total_ratings (
              self)
```

Return total number of ratings

8.55.4 Member Data Documentation

8.55.4.1 __comments

```
audio_collection.Playback.track_statistics.TrackStatistics.__comments = []  [private]
```

8.55.4.2 __likes

```
audio_collection.Playback.track_statistics.TrackStatistics.__likes = []  [private]
```

8.55.4.3 __ratings

```
audio_collection.Playback.track_statistics.TrackStatistics.__ratings = []  [private]
```

8.55.4.4 __streams

```
audio_collection.Playback.track_statistics.TrackStatistics.__streams = 0  [private]
```

8.55.4.5 rating

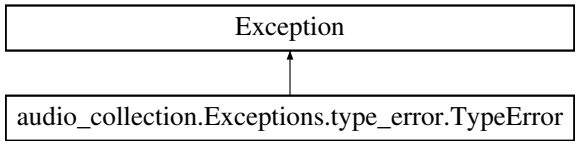
```
audio_collection.Playback.track_statistics.TrackStatistics.rating
```

The documentation for this class was generated from the following file:

- audio_collection/Playback/track_statistics.py

8.56 audio_collection.Exceptions.type_error.TypeError Class Reference

Inheritance diagram for audio_collection.Exceptions.type_error.TypeError:



Public Member Functions

- __init__ (self, str message)

8.56.1 Detailed Description

```
Type error exception
```

8.56.2 Constructor & Destructor Documentation

8.56.2.1 __init__()

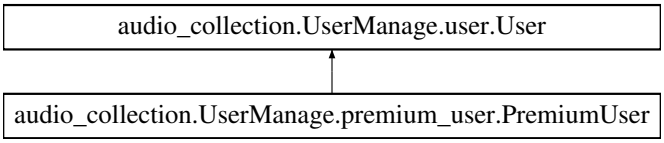
```
audio_collection.Exceptions.type_error.TypeError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/type_error.py

8.57 audio_collection.UserManage.user.User Class Reference

Inheritance diagram for audio_collection.UserManage.user.User:



Public Member Functions

- __init__ (self, Username username, UserProfile profile)
- username (self)
- playlists (self)
- amount (self)
- profile (self)
- likes (self)
- FavouriteTracks favourite_tracks (self)
- media (self)
- like (self, object target)
- create_playlist (self, str playlist_name)
- delete_playlist (self, str name_to_delete)
- add_to_amount (self, int add_value)
- buy_subscription (self, int months)
- comment_track (self, track, str text)
- update_bio (self, str new_bio)
- buy_ticket (self, Concert concert)

Static Public Member Functions

- rate_track (track, int rate)

Protected Attributes

- _user_id = UserId.generate_id()

Private Attributes

- __username = username
- MediaLibrary __media = MediaLibrary()
- int __max_playlists = 10
- __amount = PersonalAccount(0)
- __subscription = Subscription(0)
- list __comments = [ ]
- __profile = profile
- list __likes = [ ]
- list __tickets = [ ]
- __favourite_tracks = FavouriteTracks()

8.57.1 Detailed Description

```
User base class
```

8.57.2 Constructor & Destructor Documentation

8.57.2.1 __init__()

```
audio_collection.UserManage.user.User.__init__ (
              self,
             Username username,
             UserProfile profile)
```

```
Constructor
:param username: User username
:param profile: User proile
```

8.57.3 Member Function Documentation

8.57.3.1 add_to_amount()

```
audio_collection.UserManage.user.User.add_to_amount (
              self,
             int add_value)
```

```
Adds value to user amount
:param add_value: Value to add
```

8.57.3.2 amount()

```
audio_collection.UserManage.user.User.amount (
              self)
```

8.57.3.3 buy_subscription()

```
audio_collection.UserManage.user.User.buy_subscription (
              self,
             int months)
```

```
Buys a subscription and makes a premium user
:param months: Months to buy a subscription to
:return:
```

8.57.3.4 buy_ticket()

```
audio_collection.UserManage.user.User.buy_ticket (
              self,
             Concert concert)
```

```
Buys a ticket to a concert
:param concert: concert
```

8.57.3.5 comment_track()

```
audio_collection.UserManage.user.User.comment_track (
              self,
              track,
             str text)
```

```
Comments a track
:param track: Track to comment
:param text: A comment
```

8.57.3.6 create_playlist()

```
audio_collection.UserManage.user.User.create_playlist (
              self,
             str playlist_name)
```

```
Creates a user playlist
:param playlist_name: Playlist name
:return: Updated user media
```

8.57.3.7 delete_playlist()

```
audio_collection.UserManage.user.User.delete_playlist (
              self,
             str name_to_delete)
```

```
Deletes selected playlist
:param name_to_delete: Playlist to delete
:return: Updated media library
```

8.57.3.8 favourite_tracks()

```
FavouriteTracks audio_collection.UserManage.user.User.favourite_tracks (
              self)
```

8.57.3.9 like()

```
audio_collection.UserManage.user.User.like (
              self,
             object target)
```

```
Likes an object
:param target: Object to like
```

8.57.3.10 likes()

```
audio_collection.UserManage.user.User.likes (
              self)
```

8.57.3.11 media()

```
audio_collection.UserManage.user.User.media (
              self)
```

8.57.3.12 playlists()

```
audio_collection.UserManage.user.User.playlists (
              self)
```

8.57.3.13 profile()

```
audio_collection.UserManage.user.User.profile (
              self)
```

8.57.3.14 rate_track()

```
audio_collection.UserManage.user.User.rate_track (
              track,
             int rate)  [static]
```

```
Rates the track
:param track: Track to rate
:param rate: Personal rating
```

8.57.3.15 update_bio()

```
audio_collection.UserManage.user.User.update_bio (
              self,
             str new_bio)
```

```
Updates user bio
:param new_bio: new bio
:return: Updated bio
```

8.57.3.16 username()

```
audio_collection.UserManage.user.User.username (
              self)
```

8.57.4 Member Data Documentation

8.57.4.1 __amount

```
audio_collection.UserManage.user.User.__amount = PersonalAccount(0)  [private]
```

8.57.4.2 __comments

```
list audio_collection.UserManage.user.User.__comments = []  [private]
```

8.57.4.3 __favourite_tracks

```
audio_collection.UserManage.user.User.__favourite_tracks = FavouriteTracks()  [private]
```

8.57.4.4 __likes

```
list audio_collection.UserManage.user.User.__likes = []  [private]
```

8.57.4.5 __max_playlists

```
int audio_collection.UserManage.user.User.__max_playlists = 10  [private]
```

8.57.4.6 __media

```
MediaLibrary audio_collection.UserManage.user.User.__media = MediaLibrary()  [private]
```

8.57.4.7 __profile

```
audio_collection.UserManage.user.User.__profile = profile  [private]
```

8.57.4.8 __subscription

```
audio_collection.UserManage.user.User.__subscription = Subscription(0)  [private]
```

8.57.4.9 __tickets

```
list audio_collection.UserManage.user.User.__tickets = []  [private]
```

8.57.4.10 __username

```
audio_collection.UserManage.user.User.__username = username  [private]
```

8.57.4.11 _user_id

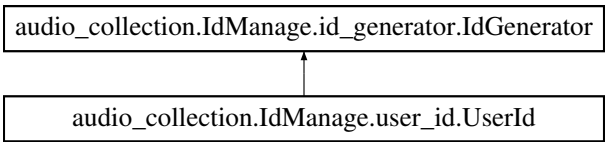
```
audio_collection.UserManage.user.User._user_id = UserId.generate_id()  [protected]
```

The documentation for this class was generated from the following file:

- audio_collection/UserManage/user.py

8.58 audio_collection.IdManage.user_id.UserId Class Reference

Inheritance diagram for audio_collection.IdManage.user_id.UserId:



Public Member Functions

- generate_id (cls)

Static Private Attributes

- int __user_id = 0

8.58.1 Detailed Description

```
User id class
```

8.58.2 Member Function Documentation

8.58.2.1 generate_id()

```
audio_collection.IdManage.user_id.UserId.generate_id (
              cls)
```

```
Generates user id
:return: user id
```

Reimplemented from audio_collection.IdManage.id_generator.IdGenerator.

8.58.3 Member Data Documentation

8.58.3.1 __user_id

```
int audio_collection.IdManage.user_id.UserId.__user_id = 0  [static], [private]
```

The documentation for this class was generated from the following file:

- audio_collection/IdManage/user_id.py

8.59 audio_collection.UserManage.username.Username Class Reference

Public Member Functions

- __init__ (self, str username)
- username (self)
- __str__ (self)

Private Attributes

- __username = username

8.59.1 Detailed Description

```
Username class
```

8.59.2 Constructor & Destructor Documentation

8.59.2.1 __init__()

```
audio_collection.UserManage.username.Username.__init__ (
              self,
             str username)
```

```
Constructor
:param username: Username as str
```

8.59.3 Member Function Documentation

8.59.3.1 __str__()

```
audio_collection.UserManage.username.Username.__str__ (
              self)
```

8.59.3.2 username()

```
audio_collection.UserManage.username.Username.username (
              self)
```

8.59.4 Member Data Documentation

8.59.4.1 __username

```
audio_collection.UserManage.username.Username.__username = username  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/UserManage/username.py

8.60 audio_collection.UserManage.username_validator.UsernameValidator Class Reference

Public Member Functions

- __init__ (self, Username username)
- username (self)
- equals (self, Username other)

Static Public Member Functions

- is_valid (Username username)

Private Attributes

- __username = username

8.60.1 Detailed Description

```
Username validator class
```

8.60.2 Constructor & Destructor Documentation

8.60.2.1 __init__()

```
audio_collection.UserManage.username_validator.UsernameValidator.__init__ (
              self,
             Username username)

Constructor
:param username: Username
```

8.60.3 Member Function Documentation

8.60.3.1 equals()

```
audio_collection.UserManage.username_validator.UsernameValidator.equals (
              self,
             Username other)
```

```
Compares two usernames
:param other: Username to compare
:return: username is equal to other username
```

8.60.3.2 is_valid()

```
audio_collection.UserManage.username_validator.UsernameValidator.is_valid (
             Username username)  [static]
```

```
Checks if the username is valid
:param username: Username
:return: the username is valid
```

8.60.3.3 username()

```
audio_collection.UserManage.username_validator.UsernameValidator.username (
              self)
```

8.60.4 Member Data Documentation

8.60.4.1 __username

```
audio_collection.UserManage.username_validator.UsernameValidator.__username = username  [private]
```

The documentation for this class was generated from the following file:

- audio_collection/UserManage/username_validator.py

8.61 audio_collection.UserManage.user_profile.UserProfile Class Reference

Public Member Functions

- __init__ (self, str bio, Date birthdate, str country="")
- __str__ (self)

Public Attributes

- birthdate = birthdate
- bio = bio
- country = country

8.61.1 Detailed Description

```
User profile class
```

8.61.2 Constructor & Destructor Documentation

8.61.2.1 __init__()

```
audio_collection.UserManage.user_profile.UserProfile.__init__ (
              self,
             str bio,
             Date birthdate,
             str country = "")
```

```
Constructor
:param bio: Bio
:param birthdate: Birthdate
:param country: Country
```

8.61.3 Member Function Documentation

8.61.3.1 __str__()

```
audio_collection.UserManage.user_profile.UserProfile.__str__ (
              self)
```

8.61.4 Member Data Documentation

8.61.4.1 bio

```
audio_collection.UserManage.user_profile.UserProfile.bio = bio
```

8.61.4.2 birthdate

```
audio_collection.UserManage.user_profile.UserProfile.birthdate = birthdate
```

8.61.4.3 country

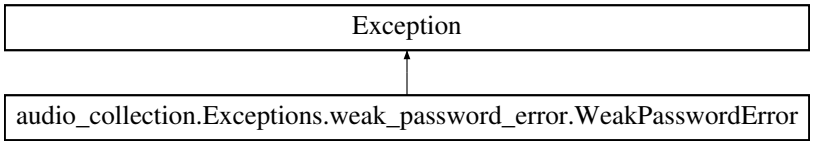
```
audio_collection.UserManage.user_profile.UserProfile.country = country
```

The documentation for this class was generated from the following file:

- audio_collection/UserManage/user_profile.py

8.62 audio_collection.Exceptions.weak_password_error.WeakPasswordError Class Reference

Inheritance diagram for audio_collection.Exceptions.weak_password_error.WeakPasswordError:



Public Member Functions

- __init__ (self, str message)

8.62.1 Detailed Description

```
Weak password error exception
```

8.62.2 Constructor & Destructor Documentation

8.62.2.1 __init__()

```
audio_collection.Exceptions.weak_password_error.WeakPasswordError.__init__ (
              self,
             str message)
```

The documentation for this class was generated from the following file:

- audio_collection/Exceptions/weak_password_error.py

Chapter 9

File Documentation

9.1 audio_collection/__init__.py File Reference

Namespaces

- namespace audio_collection

9.2 audio_collection/Authentication/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Authentication

9.3 audio_collection/Community/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Community

9.4 audio_collection/Exceptions/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions

9.5 audio_collection/IdManage/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.IdManage

9.6 audio_collection/MainEntities/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities

9.7 audio_collection/MainEntities/Albums/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Albums

9.8 audio_collection/MainEntities/Artists/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Artists

9.9 audio_collection/Playback/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Playback

9.10 audio_collection/Playlists/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Playlists

9.11 audio_collection/Playlists/Collections/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Playlists
- namespace audio_collection.Playlists.Collections

9.12 audio_collection/Subscription/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Subscription

9.13 audio_collection/Tests/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Tests

9.14 audio_collection/UserManage/__init__.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.UserManage

9.15 audio_collection/Authentication/log_in.py File Reference

Classes

- class audio_collection.Authentication.log_in.LogIn

Namespaces

- namespace audio_collection
- namespace audio_collection.Authentication
- namespace audio_collection.Authentication.log_in

9.16 audio_collection/Authentication/register.py File Reference

Classes

- class audio_collection.Authentication.register.Register

Namespaces

- namespace audio_collection
- namespace audio_collection.Authentication
- namespace audio_collection.Authentication.register

9.17 audio_collection/Community/comment.py File Reference

Classes

- class audio_collection.Community.comment.Comment

Namespaces

- namespace audio_collection
- namespace audio_collection.Community
- namespace audio_collection.Community.comment

9.18 audio_collection/Community/like.py File Reference

Classes

- class audio_collection.Community.like.Like

Namespaces

- namespace audio_collection
- namespace audio_collection.Community
- namespace audio_collection.Community.like

9.19 audio_collection/Community/rating.py File Reference

Classes

- class audio_collection.Community.rating.Rating

Namespaces

- namespace audio_collection
- namespace audio_collection.Community
- namespace audio_collection.Community.rating

9.20 audio_collection/Exceptions/date_error.py File Reference

Classes

- class audio_collection.Exceptions.date_error.DateError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.date_error

9.21 audio_collection/Exceptions/equalizer_settings_error.py File Reference

Classes

- class audio_collection.Exceptions.equalizer_settings_error.EqualizerSettingsError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.equalizer_settings_error

9.22 audio_collection/Exceptions/invalid_username_error.py File Reference

Classes

- class audio_collection.Exceptions.invalid_username_error.InvalidUsernameError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.invalid_username_error

9.23 audio_collection/Exceptions/login_error.py File Reference

Classes

- class audio_collection.Exceptions.login_error.LogInError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.login_error

9.24 audio_collection/Exceptions/playlist_deleting_error.py File Reference

Classes

- class audio_collection.Exceptions.playlist_deleting_error.PlaylistDeleteError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.playlist_deleting_error

9.25 audio_collection/Exceptions/rating_error.py File Reference

Classes

- class audio_collection.Exceptions.rating_error.RatingError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.rating_error

9.26 audio_collection/Exceptions/register_error.py File Reference

Classes

- class audio_collection.Exceptions.register_error.RegisterError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.register_error

9.27 audio_collection/Exceptions/resources_error.py File Reference

Classes

- class audio_collection.Exceptions.resources_error.ResourcesError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.resources_error

9.28 audio_collection/Exceptions/ticket_selling_error.py File Reference

Classes

- class audio_collection.Exceptions.ticket_selling_error.TicketSellingError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.ticket_selling_error

9.29 audio_collection/Exceptions/track_adding_error.py File Reference

Classes

- class audio_collection.Exceptions.track_adding_error.TrackAddingError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.track_adding_error

9.30 audio_collection/Exceptions/type_error.py File Reference

Classes

- class audio_collection.Exceptions.type_error.TypeError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.type_error

9.31 audio_collection/Exceptions/weak_password_error.py File Reference

Classes

- class audio_collection.Exceptions.weak_password_error.WeakPasswordError

Namespaces

- namespace audio_collection
- namespace audio_collection.Exceptions
- namespace audio_collection.Exceptions.weak_password_error

9.32 audio_collection/IdManage/album_id.py File Reference

Classes

- class audio_collection.IdManage.album_id.AlbumId

Namespaces

- namespace audio_collection
- namespace audio_collection.IdManage
- namespace audio_collection.IdManage.album_id

9.33 audio_collection/IdManage/id_generator.py File Reference

Classes

- class audio_collection.IdManage.id_generator.IdGenerator

Namespaces

- namespace audio_collection
- namespace audio_collection.IdManage
- namespace audio_collection.IdManage.id_generator

9.34 audio_collection/IdManage/ticket_id.py File Reference

Classes

- class audio_collection.IdManage.ticket_id.TicketId

Namespaces

- namespace audio_collection
- namespace audio_collection.IdManage
- namespace audio_collection.IdManage.ticket_id

9.35 audio_collection/IdManage/track_id.py File Reference

Classes

- class audio_collection.IdManage.track_id.TrackId

Namespaces

- namespace audio_collection
- namespace audio_collection.IdManage
- namespace audio_collection.IdManage.track_id

9.36 audio_collection/IdManage/user_id.py File Reference

Classes

- class audio_collection.IdManage.user_id.UserId

Namespaces

- namespace audio_collection
- namespace audio_collection.IdManage
- namespace audio_collection.IdManage.user_id

9.37 audio_collection/main.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.main

9.38 audio_collection/MainEntities/Albums/album.py File Reference

Classes

- class audio_collection.MainEntities.Albums.album.Album

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Albums
- namespace audio_collection.MainEntities.Albums.album

9.39 audio_collection/MainEntities/Albums/album_definer.py File Reference

Classes

- class audio_collection.MainEntities.Albums.album_definer.AlbumDefiner

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Albums
- namespace audio_collection.MainEntities.Albums.album_definer

9.40 audio_collection/MainEntities/Albums/ep.py File Reference

Classes

- class audio_collection.MainEntities.Albums.ep.Ep

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Albums
- namespace audio_collection.MainEntities.Albums.ep

9.41 audio_collection/MainEntities/Albums/live_album.py File Reference

Classes

- class audio_collection.MainEntities.Albums.live_album.LiveAlbum

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Albums
- namespace audio_collection.MainEntities.Albums.live_album

9.42 audio_collection/MainEntities/Albums/single.py File Reference

Classes

- class audio_collection.MainEntities.Albums.single.Single

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Albums
- namespace audio_collection.MainEntities.Albums.single

9.43 audio_collection/MainEntities/Albums/studio_album.py File Reference

Classes

- class audio_collection.MainEntities.Albums.studio_album.StudioAlbum

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Albums
- namespace audio_collection.MainEntities.Albums.studio_album

9.44 audio_collection/MainEntities/Artists/artist.py File Reference

Classes

- class audio_collection.MainEntities.Artists.artist.Artist

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Artists
- namespace audio_collection.MainEntities.Artists.artist

9.45 audio_collection/MainEntities/Artists/band.py File Reference

Classes

- class audio_collection.MainEntities.Artists.band.Band

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Artists
- namespace audio_collection.MainEntities.Artists.band

9.46 audio_collection/MainEntities/Artists/concert.py File Reference

Classes

- class audio_collection.MainEntities.Artists.concert.Concert

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Artists
- namespace audio_collection.MainEntities.Artists.concert

9.47 audio_collection/MainEntities/Artists/musician.py File Reference

Classes

- class audio_collection.MainEntities.Artists.musician.Musician

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Artists
- namespace audio_collection.MainEntities.Artists.musician

9.48 audio_collection/MainEntities/Artists/ticket.py File Reference

Classes

- class audio_collection.MainEntities.Artists.ticket.Ticket

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Artists
- namespace audio_collection.MainEntities.Artists.ticket

9.49 audio_collection/MainEntities/Artists/tour.py File Reference

Classes

- class audio_collection.MainEntities.Artists.tour.Tour

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Artists
- namespace audio_collection.MainEntities.Artists.tour

9.50 audio_collection/MainEntities/Artists/track_lyrics.py File Reference

Classes

- class audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.Artists
- namespace audio_collection.MainEntities.Artists.track_lyrics

9.51 audio_collection/MainEntities/city.py File Reference

Classes

- class audio_collection.MainEntities.city.City

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.city

9.52 audio_collection/MainEntities/collaboration.py File Reference

Classes

- class audio_collection.MainEntities.collaboration.Collaboration

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.collaboration

9.53 audio_collection/MainEntities/cover.py File Reference

Classes

- class audio_collection.MainEntities.cover.Cover

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.cover

9.54 audio_collection/MainEntities/date.py File Reference

Classes

- class audio_collection.MainEntities.date.Date

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.date

9.55 audio_collection/MainEntities/duration.py File Reference

Classes

- class audio_collection.MainEntities.duration.Duration

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.duration

9.56 audio_collection/MainEntities/genre.py File Reference

Classes

- class audio_collection.MainEntities.genre.Genre

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.genre

9.57 audio_collection/MainEntities/label.py File Reference

Classes

- class audio_collection.MainEntities.label.Label

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.label

9.58 audio_collection/MainEntities/remix.py File Reference

Classes

- class audio_collection.MainEntities.remix.Remix

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.remix

9.59 audio_collection/MainEntities/track.py File Reference

Classes

- class audio_collection.MainEntities.track.Track

Namespaces

- namespace audio_collection
- namespace audio_collection.MainEntities
- namespace audio_collection.MainEntities.track

9.60 audio_collection/Playback/equalizer.py File Reference

Classes

- class audio_collection.Playback.equalizer.Equalizer

Namespaces

- namespace audio_collection
- namespace audio_collection.Playback
- namespace audio_collection.Playback.equalizer

9.61 audio_collection/Playback/queue.py File Reference

Classes

- class audio_collection.Playback.queue.Queue

Namespaces

- namespace audio_collection
- namespace audio_collection.Playback
- namespace audio_collection.Playback.queue

9.62 audio_collection/Playback/track_statistics.py File Reference

Classes

- class audio_collection.Playback.track_statistics.TrackStatistics

Namespaces

- namespace audio_collection
- namespace audio_collection.Playback
- namespace audio_collection.Playback.track_statistics

9.63 audio_collection/Playlists/Collections/collection.py File Reference

Classes

- class audio_collection.Playlists.Collections.collection.Collection

Namespaces

- namespace audio_collection
- namespace audio_collection.Playlists
- namespace audio_collection.Playlists.Collections
- namespace audio_collection.Playlists.Collections.collection

9.64 audio_collection/Playlists/Collections/genre_collection.py File Reference

Classes

- class audio_collection.Playlists.Collections.genre_collection.GenreCollection

Namespaces

- namespace audio_collection
- namespace audio_collection.Playlists
- namespace audio_collection.Playlists.Collections
- namespace audio_collection.Playlists.Collections.genre_collection

9.65 audio_collection/Playlists/favourite.py File Reference

Classes

- class audio_collection.Playlists.favourite.Favourite

Namespaces

- namespace audio_collection
- namespace audio_collection.Playlists
- namespace audio_collection.Playlists.favourite

9.66 audio_collection/Playlists/favourite_tracks.py File Reference

Classes

- class audio_collection.Playlists.favourite_tracks.FavouriteTracks

Namespaces

- namespace audio_collection
- namespace audio_collection.Playlists
- namespace audio_collection.Playlists.favourite_tracks

9.67 audio_collection/Playlists/history.py File Reference

Classes

- class audio_collection.Playlists.history.History

Namespaces

- namespace audio_collection
- namespace audio_collection.Playlists
- namespace audio_collection.Playlists.history

9.68 audio_collection/Playlists/media_library.py File Reference

Classes

- class audio_collection.Playlists.media_library.MediaLibrary

Namespaces

- namespace audio_collection
- namespace audio_collection.Playlists
- namespace audio_collection.Playlists.media_library

9.69 audio_collection/Playlists/playlist.py File Reference

Classes

- class audio_collection.Playlists.playlist.Playlist

Namespaces

- namespace audio_collection
- namespace audio_collection.Playlists
- namespace audio_collection.Playlists.playlist

9.70 audio_collection/Subscription/personal_account.py File Reference

Classes

- class audio_collection.Subscription.personal_account.PersonalAccount

Namespaces

- namespace audio_collection
- namespace audio_collection.Subscription
- namespace audio_collection.Subscription.personal_account

9.71 audio_collection/Subscription/subscription.py File Reference

Classes

- class audio_collection.Subscription.subscription.Subscription

Namespaces

- namespace audio_collection
- namespace audio_collection.Subscription
- namespace audio_collection.Subscription.subscription

9.72 audio_collection/Tests/test_authentication.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Tests
- namespace audio_collection.Tests.test_authentication

Functions

- audio_collection.Tests.test_authentication.tmp_files (tmp_path)
- audio_collection.Tests.test_authentication.test_registration (tmp_files)
- audio_collection.Tests.test_authentication.test_duplicate_registration (tmp_files)
- audio_collection.Tests.test_authentication.test_invalid_username (tmp_files)
- audio_collection.Tests.test_authentication.test_login_success (tmp_path)
- audio_collection.Tests.test_authentication.test_login_wrong_password (tmp_path)
- audio_collection.Tests.test_authentication.test_login_user_not_exist (tmp_path)

9.73 audio_collection/Tests/test_community.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Tests
- namespace audio_collection.Tests.test_community

Functions

- audio_collection.Tests.test_community.test_comment ()
- audio_collection.Tests.test_community.test_rating ()

9.74 audio_collection/Tests/test_id_manage.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Tests
- namespace audio_collection.Tests.test_id_manage

9.75 audio_collection/Tests/test_main_entities.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Tests
- namespace audio_collection.Tests.test_main_entities

Functions

- audio_collection.Tests.test_main_entities.test_city ()
- audio_collection.Tests.test_main_entities.test_album ()
- audio_collection.Tests.test_main_entities.test_album_definer ()
- audio_collection.Tests.test_main_entities.test_genre ()
- audio_collection.Tests.test_main_entities.test_duration ()
- audio_collection.Tests.test_main_entities.test_musician ()
- audio_collection.Tests.test_main_entities.test_lyrics ()
- audio_collection.Tests.test_main_entities.test_track ()
- audio_collection.Tests.test_main_entities.test_live_album ()
- audio_collection.Tests.test_main_entities.test_band ()
- audio_collection.Tests.test_main_entities.test_label ()
- audio_collection.Tests.test_main_entities.test_single ()
- audio_collection.Tests.test_main_entities.test_lives ()
- audio_collection.Tests.test_main_entities.test_track_types ()

9.76 audio_collection/Tests/test_playback.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Tests
- namespace audio_collection.Tests.test_playback

Functions

- audio_collection.Tests.test_playback.test_queue ()

9.77 audio_collection/Tests/test_playlists.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Tests
- namespace audio_collection.Tests.test_playlists

Functions

- audio_collection.Tests.test_playlists.test_playlist ()
- audio_collection.Tests.test_playlists.test_favourite ()
- audio_collection.Tests.test_playlists.test_media ()
- audio_collection.Tests.test_playlists.test_genre_collection ()

9.78 audio_collection/Tests/test_subscription.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Tests
- namespace audio_collection.Tests.test_subscription

Functions

- audio_collection.Tests.test_subscription.test_subscription ()
- audio_collection.Tests.test_subscription.test_personal_account ()

9.79 audio_collection/Tests/test_user_manage.py File Reference

Namespaces

- namespace audio_collection
- namespace audio_collection.Tests
- namespace audio_collection.Tests.test_user_manage

Functions

- audio_collection.Tests.test_user_manage.test_username ()
- audio_collection.Tests.test_user_manage.test_username_validator ()
- audio_collection.Tests.test_user_manage.test_user_profile ()
- audio_collection.Tests.test_user_manage.test_password ()
- audio_collection.Tests.test_user_manage.test_user ()
- audio_collection.Tests.test_user_manage.test_premium_user ()

9.80 audio_collection/UserManage/password.py File Reference

Classes

- class audio_collection.UserManage.password.Password

Namespaces

- namespace audio_collection
- namespace audio_collection.UserManage
- namespace audio_collection.UserManage.password

9.81 audio_collection/UserManage/premium_user.py File Reference

Classes

- class audio_collection.UserManage.premium_user.PremiumUser

Namespaces

- namespace audio_collection
- namespace audio_collection.UserManage
- namespace audio_collection.UserManage.premium_user

9.82 audio_collection/UserManage/user.py File Reference

Classes

- class audio_collection.UserManage.user.User

Namespaces

- namespace audio_collection
- namespace audio_collection.UserManage
- namespace audio_collection.UserManage.user

9.83 audio_collection/UserManage/user_profile.py File Reference

Classes

- class audio_collection.UserManage.user_profile.UserProfile

Namespaces

- namespace audio_collection
- namespace audio_collection.UserManage
- namespace audio_collection.UserManage.user_profile

9.84 audio_collection/UserManage/username.py File Reference

Classes

- class audio_collection.UserManage.username.Username

Namespaces

- namespace audio_collection
- namespace audio_collection.UserManage
- namespace audio_collection.UserManage.username

9.85 audio_collection/UserManage/username_validator.py File Reference

Classes

- class audio_collection.UserManage.username_validator.UsernameValidator

Namespaces

- namespace audio_collection
- namespace audio_collection.UserManage
- namespace audio_collection.UserManage.username_validator

Index

__album_id
    audio_collection.IdManage.album_id.AlbumId, 44
__albums
    audio_collection.Playlists.media_library.MediaLibrary, 83
__amount
    audio_collection.Subscription.personal_account.PersonalAccount, 88
    audio_collection.UserManage.user.User, 131
__artist
    audio_collection.MainEntities.Artists.concert.Concert, 56
    audio_collection.MainEntities.Artists.tour.Tour, 113
__artists
    audio_collection.MainEntities.collaboration.Collaboration, 52
    audio_collection.MainEntities.label.Label, 75
    audio_collection.Playlists.media_library.MediaLibrary, 83
__author
    audio_collection.MainEntities.remix.Remix, 102
__bass
    audio_collection.Playback.equalizer.Equalizer, 64
__birth_year
    audio_collection.MainEntities.Artists.musician.Musician, 84
__cities
    audio_collection.MainEntities.Artists.tour.Tour, 113
__city
    audio_collection.MainEntities.Albums.live_album.LiveAlbum, 79
    audio_collection.MainEntities.Artists.concert.Concert, 56
__collections
    audio_collection.UserManage.premium_user.PremiumUser, 95
__comment
    audio_collection.Community.comment.Comment, 54
__comments
    audio_collection.Playback.track_statistics.TrackStatistics, 125
    audio_collection.UserManage.user.User, 131
__concert
    audio_collection.MainEntities.Artists.ticket.Ticket, 110
__concerts
    audio_collection.MainEntities.Artists.tour.Tour, 113
__country
    audio_collection.MainEntities.label.Label, 75
__cover_author
    audio_collection.MainEntities.cover.Cover, 58
__date
    audio_collection.MainEntities.Artists.concert.Concert, 56
__duration
    audio_collection.MainEntities.duration.Duration, 61
    audio_collection.MainEntities.track.Track, 118
__equalizer
    audio_collection.MainEntities.track.Track, 118
__favourite_tracks
    audio_collection.Playlists.media_library.MediaLibrary, 83
    audio_collection.UserManage.user.User, 131
__founded_year
    audio_collection.MainEntities.label.Label, 75
__genre
    audio_collection.MainEntities.track.Track, 118
    audio_collection.Playlists.Collections.genre_collection.GenreCollection, 71
__genre_name
    audio_collection.MainEntities.genre.Genre, 69
__history
    audio_collection.Playlists.playlist.Playlist, 91
__init__
    audio_collection.Community.comment.Comment, 53
    audio_collection.Community.like.Like, 76
    audio_collection.Community.rating.Rating, 98
    audio_collection.Exceptions.date_error.DateError, 60
    audio_collection.Exceptions.equalizer_settings_error.EqualizerSetting, 64
    audio_collection.Exceptions.invalid_username_error.InvalidUsername, 73
    audio_collection.Exceptions.login_error.LogInError, 80
    audio_collection.Exceptions.playlist_deleting_error.PlaylistDeleteError, 93
    audio_collection.Exceptions.rating_error.RatingError, 99
    audio_collection.Exceptions.register_error.RegisterError, 101
    audio_collection.Exceptions.resources_error.ResourcesError, 103
    audio_collection.Exceptions.ticket_selling_error.TicketSellingError, 112
    audio_collection.Exceptions.track_adding_error.TrackAddingError,

119
audio_collection.Exceptions.type_error.TypeError, 126
audio_collection.Exceptions.weak_password_error.WeakPasswordError, 137
audio_collection.MainEntities.Albums.album.Album, 40
audio_collection.MainEntities.Albums.ep.Ep, 62
audio_collection.MainEntities.Albums.live_album.LiveAlbum, 78
audio_collection.MainEntities.Albums.single.Single, 104
audio_collection.MainEntities.Albums.studio_album.StudioAlbum, 106
audio_collection.MainEntities.Artists.artist.Artist, 45
audio_collection.MainEntities.Artists.band.Band, 48
audio_collection.MainEntities.Artists.concert.Concert, 55
audio_collection.MainEntities.Artists.musician.Musician, 84
audio_collection.MainEntities.Artists.ticket.Ticket, 108
audio_collection.MainEntities.Artists.tour.Tour, 113
audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics, 121
audio_collection.MainEntities.city.City, 50
audio_collection.MainEntities.collaboration.Collaboration, 51
audio_collection.MainEntities.cover.Cover, 57
audio_collection.MainEntities.date.Date, 58
audio_collection.MainEntities.duration.Duration, 60
audio_collection.MainEntities.genre.Genre, 69
audio_collection.MainEntities.label.Label, 74
audio_collection.MainEntities.remix.Remix, 102
audio_collection.MainEntities.track.Track, 115
audio_collection.Playback.equalizer.Equalizer, 63
audio_collection.Playback.queue.Queue, 96
audio_collection.Playback.track_statistics.TrackStatistics, 122
audio_collection.Playlists.Collections.collection.Collection, 52
audio_collection.Playlists.Collections.genre_collection.GenreCollection, 70
audio_collection.Playlists.favourite.Favourite, 65
audio_collection.Playlists.favourite_tracks.FavouriteTracks, 67
audio_collection.Playlists.history.History, 71
audio_collection.Playlists.media_library.MediaLibrary, 81
audio_collection.Playlists.playlist.Playlist, 89
audio_collection.Subscription.personal_account.PersonalAccount, 87
audio_collection.Subscription.subscription.Subscription, 107
audio_collection.UserManage.password.Password, 85
audio_collection.UserManage.premium_user.PremiumUser, 94
audio_collection.UserManage.user.User, 128
audio_collection.UserManage.user_profile.UserProfile, 136
audio_collection.UserManage.username.Username, 133
audio_collection.UserManage.username_validator.UsernameValidator, 134
__instruments
audio_collection.MainEntities.Artists.musician.Musician, 84
__is_strong
audio_collection.Community.rating.Rating, 98
__is_used
audio_collection.UserManage.password.Password, 86
__len__
audio_collection.MainEntities.Artists.ticket.Ticket, 110
__likes
audio_collection.Playback.queue.Queue, 96
__lyrics
audio_collection.Playback.track_statistics.TrackStatistics, 125
audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics, 121
__max_playlists
audio_collection.MainEntities.track.Track, 118
__media
audio_collection.UserManage.premium_user.PremiumUser, 95
audio_collection.UserManage.user.User, 131
__mid
audio_collection.UserManage.user.User, 131
__month_cost
audio_collection.Playback.equalizer.Equalizer, 64
__months
audio_collection.Subscription.subscription.Subscription, 107
__musicians
audio_collection.Subscription.subscription.Subscription, 107
__name
audio_collection.MainEntities.Artists.band.Band, 49
audio_collection.MainEntities.Artists.musician.Musician, 85
audio_collection.MainEntities.label.Label, 76
audio_collection.Playlists.playlist.Playlist, 91
__password
audio_collection.UserManage.password.Password, 87
__playlist
audio_collection.Playlists.Collections.collection.Collection, 53

__playlists
audio_collection.Playlists.media_library.MediaLibrary, 83
audio_collection.UserManage.premium_user.PremiumUser, 95
__price
audio_collection.MainEntities.Artists.ticket.Ticket, 110
__private_id
audio_collection.IdManage.id_generator.IdGenerator, 73
__profile
audio_collection.UserManage.user.User, 131
__queue
audio_collection.Playback.queue.Queue, 97
audio_collection.Playlists.playlist.Playlist, 92
__rating
audio_collection.Community.rating.Rating, 98
__ratings
audio_collection.Playback.track_statistics.TrackStatistics, 125
__repr__
audio_collection.Community.like.Like, 76
__seat_number
audio_collection.MainEntities.Artists.ticket.Ticket, 110
__statistics
audio_collection.MainEntities.track.Track, 118
__str__
audio_collection.Community.comment.Comment, 54
audio_collection.MainEntities.city.City, 50
audio_collection.MainEntities.date.Date, 59
audio_collection.Playback.equalizer.Equalizer, 63
audio_collection.Playlists.history.History, 71
audio_collection.UserManage.password.Password, 86
audio_collection.UserManage.user_profile.UserProfile, 136
audio_collection.UserManage.username.Username, 133
__streams
audio_collection.Playback.track_statistics.TrackStatistics, 125
__subscription
audio_collection.UserManage.premium_user.PremiumUser, 95
audio_collection.UserManage.user.User, 131
__ticket_amount
audio_collection.MainEntities.Artists.concert.Concert, 56
audio_collection.MainEntities.Artists.tour.Tour, 114
__ticket_id
audio_collection.IdManage.ticket_id.TicketId, 111
audio_collection.MainEntities.Artists.ticket.Ticket, 110
__ticket_price
audio_collection.MainEntities.Artists.concert.Concert, 56
__tickets
audio_collection.UserManage.user.User, 131
audio_collection.MainEntities.track.Track, 118
__track_id
audio_collection.IdManage.track_id.TrackId, 120
audio_collection.MainEntities.track.Track, 118
__tracks
audio_collection.Playlists.Collections.genre_collection.GenreCollectio
71
audio_collection.Playlists.history.History, 72
__treble
audio_collection.Playback.equalizer.Equalizer, 64
__user_id
audio_collection.IdManage.user_id.UserId, 133
__username
audio_collection.UserManage.user.User, 131
audio_collection.UserManage.username.Username, 134
audio_collection.UserManage.username_validator.UsernameValidato
135
_albums
audio_collection.MainEntities.Artists.artist.Artist, 47
_current_track
audio_collection.Playlists.playlist.Playlist, 92
_duration
audio_collection.Playlists.playlist.Playlist, 92
_followers
audio_collection.MainEntities.Artists.artist.Artist, 47
_genre
audio_collection.MainEntities.Albums.album.Album, 42
_id
audio_collection.MainEntities.Albums.album.Album, 42
_label
audio_collection.MainEntities.Albums.album.Album, 42
_likes
audio_collection.MainEntities.Albums.album.Album, 42
_max_ep_tracks
audio_collection.MainEntities.Albums.album.Album, 42
_max_single_tracks
audio_collection.MainEntities.Albums.album.Album, 42
_name
audio_collection.MainEntities.Artists.artist.Artist, 47
_objects
audio_collection.Playlists.favourite.Favourite, 66
_rating
audio_collection.MainEntities.Albums.album.Album, 42

_title
audio_collection.MainEntities.Albums.album.Album, 42
_tracks
audio_collection.MainEntities.Albums.album.Album, 42
audio_collection.Playlists.playlist.Playlist, 92
_user_id
audio_collection.UserManage.user.User, 131
_year
audio_collection.MainEntities.Albums.album.Album, 42

add
audio_collection.Playlists.favourite.Favourite, 65
add_album
audio_collection.MainEntities.Artists.artist.Artist, 45
add_artist
audio_collection.MainEntities.label.Label, 74
add_comment
audio_collection.MainEntities.track.Track, 115
audio_collection.Playback.track_statistics.TrackStatistics, 122
add_favourite_track
audio_collection.Playlists.media_library.MediaLibrary, 81
add_like
audio_collection.MainEntities.track.Track, 115
audio_collection.Playback.track_statistics.TrackStatistics, 122
add_lyrics
audio_collection.MainEntities.track.Track, 115
add_rate
audio_collection.MainEntities.track.Track, 115
add_rating
audio_collection.MainEntities.Albums.album.Album, 40
audio_collection.Playback.track_statistics.TrackStatistics, 122
add_stream
audio_collection.Playback.track_statistics.TrackStatistics, 123
add_to_amount
audio_collection.Subscription.personal_account.PersonalAccount, 88
audio_collection.UserManage.user.User, 128
add_to_library
audio_collection.Playlists.media_library.MediaLibrary, 81
add_to_queue
audio_collection.Playback.queue.Queue, 96
add_track
audio_collection.Playlists.favourite_tracks.FavouriteTracks, 68
audio_collection.Playlists.playlist.Playlist, 90
adjust
audio_collection.Playback.equalizer.Equalizer, 63
adjust_equalizer
audio_collection.MainEntities.track.Track, 116
album_id
audio_collection.MainEntities.Albums.album.Album, 40
albums
audio_collection.MainEntities.Artists.artist.Artist, 45
audio_collection.Playlists.media_library.MediaLibrary, 81
amount
audio_collection.Subscription.personal_account.PersonalAccount, 88
audio_collection.UserManage.user.User, 128
append
audio_collection.Playlists.history.History, 71
artist
audio_collection.MainEntities.Artists.concert.Concert, 55
audio_collection.MainEntities.Artists.tour.Tour, 113
artists
audio_collection.MainEntities.collaboration.Collaboration, 51
audio_collection.MainEntities.label.Label, 74
audio_collection.Playlists.media_library.MediaLibrary, 81
assign_seat
audio_collection.MainEntities.Artists.ticket.Ticket, 109
audio_collection, 19
audio_collection Directory Reference, 15
audio_collection.Authentication, 19
audio_collection.Authentication.log_in, 19
audio_collection.Authentication.log_in.LogIn, 79
log_in, 79
audio_collection.Authentication.register, 20
audio_collection.Authentication.register.Register, 99
register_user, 100
set_password, 100
audio_collection.Community, 20
audio_collection.Community.comment, 20
audio_collection.Community.comment.Comment, 53
__comment, 54
__init__, 53
__str__, 54
edit_comment, 54
audio_collection.Community.like, 20
audio_collection.Community.like.Like, 76
__init__, 76
__repr__, 76
target, 77
audio_collection.Community.rating, 20
audio_collection.Community.rating.Rating, 98
__init__, 98
__int__, 98
__rating, 98
audio_collection.Exceptions, 20
audio_collection.Exceptions.date_error, 21
audio_collection.Exceptions.date_error.DateError, 59

__init__, 60
audio_collection.Exceptions.equalizer_settings_error, 21
audio_collection.Exceptions.equalizer_settings_error.EqualizerSettingsError, 64
__init__, 64
audio_collection.Exceptions.invalid_username_error, 21
audio_collection.Exceptions.invalid_username_error.InvalidUsernameError, 73
__init__, 73
audio_collection.Exceptions.login_error, 21
audio_collection.Exceptions.login_error.LogInError, 80
__init__, 80
audio_collection.Exceptions.playlist_deleting_error, 21
audio_collection.Exceptions.playlist_deleting_error.PlaylistDeletingError, 92
__init__, 93
audio_collection.Exceptions.rating_error, 21
audio_collection.Exceptions.rating_error.RatingError, 99
__init__, 99
audio_collection.Exceptions.register_error, 22
audio_collection.Exceptions.register_error.RegisterError, 100
__init__, 101
audio_collection.Exceptions.resources_error, 22
audio_collection.Exceptions.resources_error.ResourcesError, 103
__init__, 103
audio_collection.Exceptions.ticket_selling_error, 22
audio_collection.Exceptions.ticket_selling_error.TicketSellingError, 111
__init__, 112
audio_collection.Exceptions.track_adding_error, 22
audio_collection.Exceptions.track_adding_error.TrackAddingError, 119
__init__, 119
audio_collection.Exceptions.type_error, 22
audio_collection.Exceptions.type_error.TypeError, 126
__init__, 126
audio_collection.Exceptions.weak_password_error, 22
audio_collection.Exceptions.weak_password_error.WeakPasswordError, 137
__init__, 137
audio_collection.IdManage, 23
audio_collection.IdManage.album_id, 23
audio_collection.IdManage.album_id.AlbumId, 43
__album_id, 44
generate_id, 44
audio_collection.IdManage.id_generator, 23
audio_collection.IdManage.id_generator.IdGenerator, 72
__private_id, 73
generate_id, 73
audio_collection.IdManage.ticket_id, 23
audio_collection.IdManage.ticket_id.TicketId, 110
__ticket_id, 111
generate_id, 111
audio_collection.IdManage.track_id, 23
audio_collection.IdManage.track_id.TrackId, 119
__track_id, 120
generate_id, 120
audio_collection.IdManage.user_id, 23
audio_collection.IdManage.user_id.UserId, 132
__user_id, 133
generate_id, 132
audio_collection.main, 24
audio_collection.MainEntities, 24
audio_collection.MainEntities.Albums, 24
audio_collection.MainEntities.Albums.album, 24
audio_collection.MainEntities.Albums.album.Album, 39
__init__, 40
_genre, 42
_id, 42
_label, 42
_likes, 42
_max_ep_tracks, 42
_max_single_tracks, 42
_rating, 42
_title, 42
_tracks, 42
_year, 42
add_rating, 40
album_id, 40
average_rating, 40
genre, 40
get_info, 40
get_liked, 41
label, 41
likes, 41
rating, 41
title, 41
total_duration, 41
tracks, 41
year, 41
audio_collection.MainEntities.Albums.album_definer, 24
audio_collection.MainEntities.Albums.album_definer.AlbumDefiner, 43
define, 43
audio_collection.MainEntities.Albums.ep, 25
audio_collection.MainEntities.Albums.ep.Ep, 61
__init__, 62
audio_collection.MainEntities.Albums.live_album, 25
audio_collection.MainEntities.Albums.live_album.LiveAlbum, 77
__city, 79
__init__, 78
city, 78
audio_collection.MainEntities.Albums.single, 25
audio_collection.MainEntities.Albums.single.Single, 103
__init__, 104
audio_collection.MainEntities.Albums.studio_album, 25
audio_collection.MainEntities.Albums.studio_album.StudioAlbum, 105
__init__, 106
audio_collection.MainEntities.Artists, 25
audio_collection.MainEntities.Artists.artist, 25

audio_collection.MainEntities.Artists.artist.Artist, 44
__init__, 45
_albums, 47
_followers, 47
_name, 47
add_album, 45
albums, 45
followers, 46
get_album_info, 46
get_albums_by_year, 46
get_followed, 46
name, 46
remove_album, 46
total_likes, 46
total_tracks, 46
audio_collection.MainEntities.Artists.band, 26
audio_collection.MainEntities.Artists.band.Band, 47
__init__, 48
__musicians, 49
get_members_info, 49
musicians, 49
audio_collection.MainEntities.Artists.concert, 26
audio_collection.MainEntities.Artists.concert.Concert, 54
__artist, 56
__city, 56
__date, 56
__init__, 55
__ticket_amount, 56
__ticket_price, 56
artist, 55
city, 55
date, 55
sell_ticket, 55
ticket_amount, 55
ticket_price, 56
audio_collection.MainEntities.Artists.musician, 26
audio_collection.MainEntities.Artists.musician.Musician, 83
__birth_year, 84
__init__, 84
__instruments, 84
__name, 85
birth_year, 84
get_info, 84
instruments, 84
name, 84
audio_collection.MainEntities.Artists.ticket, 26
audio_collection.MainEntities.Artists.ticket.Ticket, 108
__concert, 110
__init__, 108
__is_used, 110
__price, 110
__seat_number, 110
__ticket_id, 110
assign_seat, 109
concert, 109
get_ticket_info, 109
is_used, 109
price, 109
seat_number, 109
ticket_id, 109
use_ticket, 109
audio_collection.MainEntities.Artists.tour, 26
audio_collection.MainEntities.Artists.tour.Tour, 112
__artist, 113
__cities, 113
__concerts, 113
__init__, 113
__ticket_amount, 114
artist, 113
cities, 113
concerts, 113
ticket_amount, 113
audio_collection.MainEntities.Artists.track_lyrics, 26
audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics, 120
__init__, 121
__lyrics, 121
lyrics, 121
upload_lyrics, 121
audio_collection.MainEntities.city, 27
audio_collection.MainEntities.city.City, 49
__init__, 50
__str__, 50
city, 50
audio_collection.MainEntities.collaboration, 27
audio_collection.MainEntities.collaboration.Collaboration, 50
__artists, 52
__init__, 51
artists, 51
audio_collection.MainEntities.cover, 27
audio_collection.MainEntities.cover.Cover, 56
__cover_author, 58
__init__, 57
cover_author, 58
audio_collection.MainEntities.date, 27
audio_collection.MainEntities.date.Date, 58
__init__, 58
__str__, 59
day, 59
month, 59
year, 59
audio_collection.MainEntities.duration, 27
audio_collection.MainEntities.duration.Duration, 60
__duration, 61
__init__, 60
duration, 60
audio_collection.MainEntities.genre, 27
audio_collection.MainEntities.genre.Genre, 68
__genre_name, 69
__init__, 69
genre_name, 69
audio_collection.MainEntities.label, 27
audio_collection.MainEntities.label.Label, 74

__artists, 75
__country, 75
__founded_year, 75
__init__, 74
__name, 76
add_artist, 74
artists, 74
country, 74
founded_year, 75
get_artist_info, 75
name, 75
remove_artist, 75
audio_collection.MainEntities.remix, 28
audio_collection.MainEntities.remix.Remix, 101
__author, 102
__init__, 102
author, 102
audio_collection.MainEntities.track, 28
audio_collection.MainEntities.track.Track, 114
__duration, 118
__equalizer, 118
__genre, 118
__init__, 115
__lyrics, 118
__statistics, 118
__title, 118
__track_id, 118
add_comment, 115
add_like, 115
add_lyrics, 115
add_rate, 115
adjust_equalizer, 116
duration, 116
equalizer, 116
formated_duration, 116
genre, 116
get_total_comments, 116
likes, 117
lyrics, 117
normalized_name, 117
play, 117
statistics, 117
title, 117
track_id, 117
audio_collection.Playback, 28
audio_collection.Playback.equalizer, 28
audio_collection.Playback.equalizer.Equalizer, 62
__bass, 64
__init__, 63
__mid, 64
__str__, 63
__treble, 64
adjust, 63
audio_collection.Playback.queue, 28
audio_collection.Playback.queue.Queue, 96
__init__, 96
__len__, 96
__queue, 97
add_to_queue, 96
clear_queue, 96
queue_next, 97
remove_from_queue, 97
show_queue, 97
audio_collection.Playback.track_statistics, 28
audio_collection.Playback.track_statistics.TrackStatistics, 121
__comments, 125
__init__, 122
__likes, 125
__ratings, 125
__streams, 125
add_comment, 122
add_like, 122
add_rating, 122
add_stream, 123
clear_stats, 123
comments, 123
likes, 123
most_recent_comment, 123
rating, 123, 125
ratings, 123
remove_comment, 124
remove_like, 124
stats, 124
streams, 124
total_comments, 124
total_likes, 124
total_ratings, 125
audio_collection.Playlists, 29
audio_collection.Playlists.Collections, 29
audio_collection.Playlists.Collections.collection, 29
audio_collection.Playlists.Collections.collection.Collection, 52
__init__, 52
__playlist, 53
playlist, 53
audio_collection.Playlists.Collections.genre_collection, 29
audio_collection.Playlists.Collections.genre_collection.GenreCollection, 69
__genre, 71
__init__, 70
__tracks, 71
genre, 70
tracks, 70
audio_collection.Playlists.favourite, 29
audio_collection.Playlists.favourite.Favourite, 65
__init__, 65
_objects, 66
add, 65
objects, 65
remove, 66
audio_collection.Playlists.favourite_tracks, 29
audio_collection.Playlists.favourite_tracks.FavouriteTracks, 66
__init__, 67

add_track, 68
delete_track, 68
tracks, 68
audio_collection.Playlists.history, 30
audio_collection.Playlists.history.History, 71
__init__, 71
__str__, 71
__tracks, 72
append, 71
audio_collection.Playlists.media_library, 30
audio_collection.Playlists.media_library.MediaLibrary, 80
__albums, 83
__artists, 83
__favourite_tracks, 83
__init__, 81
__playlists, 83
add_favourite_track, 81
add_to_library, 81
albums, 81
artists, 81
favourite_tracks, 82
pin_album, 82
pin_artist, 82
pin_playlist, 82
playlists, 82
audio_collection.Playlists.playlist, 30
audio_collection.Playlists.playlist.Playlist, 88
__history, 91
__init__, 89
__name, 91
__queue, 92
_current_track, 92
_duration, 92
_tracks, 92
add_track, 90
current_track, 90, 92
delete_track, 90
duration, 90
get_formated_duration, 90
history, 90
name, 91
next_track, 91
playlist_tracks, 91
queue, 91
tracks, 91
audio_collection.Subscription, 30
audio_collection.Subscription.personal_account, 30
audio_collection.Subscription.personal_account.PersonalAccount, 87
__amount, 88
__init__, 87
add_to_amount, 88
amount, 88
subtract_from_amount, 88
audio_collection.Subscription.subscription, 30
audio_collection.Subscription.subscription.Subscription, 106
__init__, 107
__month_cost, 107
__months, 107
extend_subscription, 107
month_cost, 107
months, 107
stop_subscription, 107
audio_collection.Tests, 31
audio_collection.Tests.test_authentication, 31
test_duplicate_registration, 31
test_invalid_username, 31
test_login_success, 31
test_login_user_not_exist, 31
test_login_wrong_password, 31
test_registration, 32
tmp_files, 32
audio_collection.Tests.test_community, 32
test_comment, 32
test_rating, 32
audio_collection.Tests.test_id_manage, 32
audio_collection.Tests.test_main_entities, 32
test_album, 33
test_album_definer, 33
test_band, 33
test_city, 33
test_duration, 33
test_genre, 33
test_label, 33
test_live_album, 33
test_lives, 33
test_lyrics, 33
test_musician, 33
test_single, 34
test_track, 34
test_track_types, 34
audio_collection.Tests.test_playback, 34
test_queue, 34
audio_collection.Tests.test_playlists, 34
test_favourite, 34
test_genre_collection, 34
test_media, 35
test_playlist, 35
audio_collection.Tests.test_subscription, 35
test_personal_account, 35
test_subscription, 35
audio_collection.Tests.test_user_manage, 35
test_password, 36
test_premium_user, 36
test_user, 36
test_user_profile, 36
test_username, 36
test_username_validator, 36
audio_collection.UserManage, 36
audio_collection.UserManage.password, 36
audio_collection.UserManage.password.Password, 85
__init__, 85
__is_strong, 86
__password, 87

__str__, 86
change, 86
get_password_only_for_reg, 86
verify, 86
audio_collection.UserManage.premium_user, 37
audio_collection.UserManage.premium_user.PremiumUser, 93
__collections, 95
__init__, 94
__max_playlists, 95
__playlists, 95
__subscription, 95
collections, 94
create_collection, 94
extend_subscription, 95
months, 95
audio_collection.UserManage.user, 37
audio_collection.UserManage.user.User, 126
__amount, 131
__comments, 131
__favourite_tracks, 131
__init__, 128
__likes, 131
__max_playlists, 131
__media, 131
__profile, 131
__subscription, 131
__tickets, 131
__username, 131
_user_id, 131
add_to_amount, 128
amount, 128
buy_subscription, 128
buy_ticket, 128
comment_track, 128
create_playlist, 129
delete_playlist, 129
favourite_tracks, 129
like, 129
likes, 129
media, 130
playlists, 130
profile, 130
rate_track, 130
update_bio, 130
username, 130
audio_collection.UserManage.user_profile, 37
audio_collection.UserManage.user_profile.UserProfile, 135
__init__, 136
__str__, 136
bio, 136
birthdate, 136
country, 136
audio_collection.UserManage.username, 37
audio_collection.UserManage.username.Username, 133
__init__, 133
__str__, 133
__username, 134
username, 133
audio_collection.UserManage.username_validator, 37
audio_collection.UserManage.username_validator.UsernameValidator, 134
__init__, 134
__username, 135
equals, 135
is_valid, 135
username, 135
audio_collection/__init__.py, 139
audio_collection/Authentication Directory Reference, 16
audio_collection/Authentication/__init__.py, 139
audio_collection/Authentication/log_in.py, 141
audio_collection/Authentication/register.py, 142
audio_collection/Community Directory Reference, 16
audio_collection/Community/__init__.py, 139
audio_collection/Community/comment.py, 142
audio_collection/Community/like.py, 142
audio_collection/Community/rating.py, 142
audio_collection/Exceptions Directory Reference, 16
audio_collection/Exceptions/__init__.py, 139
audio_collection/Exceptions/date_error.py, 143
audio_collection/Exceptions/equalizer_settings_error.py, 143
audio_collection/Exceptions/invalid_username_error.py, 143
audio_collection/Exceptions/login_error.py, 144
audio_collection/Exceptions/playlist_deleting_error.py, 144
audio_collection/Exceptions/rating_error.py, 144
audio_collection/Exceptions/register_error.py, 144
audio_collection/Exceptions/resources_error.py, 145
audio_collection/Exceptions/ticket_selling_error.py, 145
audio_collection/Exceptions/track_adding_error.py, 145
audio_collection/Exceptions/type_error.py, 146
audio_collection/Exceptions/weak_password_error.py, 146
audio_collection/IdManage Directory Reference, 17
audio_collection/IdManage/__init__.py, 140
audio_collection/IdManage/album_id.py, 146
audio_collection/IdManage/id_generator.py, 146
audio_collection/IdManage/ticket_id.py, 147
audio_collection/IdManage/track_id.py, 147
audio_collection/IdManage/user_id.py, 147
audio_collection/main.py, 148
audio_collection/MainEntities Directory Reference, 17
audio_collection/MainEntities/__init__.py, 140
audio_collection/MainEntities/Albums Directory Reference, 15
audio_collection/MainEntities/Albums/__init__.py, 140
audio_collection/MainEntities/Albums/album.py, 148
audio_collection/MainEntities/Albums/album_definer.py, 148
audio_collection/MainEntities/Albums/ep.py, 148
audio_collection/MainEntities/Albums/live_album.py, 149

audio_collection/MainEntities/Albums/single.py, 149
audio_collection/MainEntities/Albums/studio_album.py, 149
audio_collection/MainEntities/Artists Directory Reference, 15
audio_collection/MainEntities/Artists/__init__.py, 140
audio_collection/MainEntities/Artists/artist.py, 149
audio_collection/MainEntities/Artists/band.py, 150
audio_collection/MainEntities/Artists/concert.py, 150
audio_collection/MainEntities/Artists/musician.py, 150
audio_collection/MainEntities/Artists/ticket.py, 151
audio_collection/MainEntities/Artists/tour.py, 151
audio_collection/MainEntities/Artists/track_lyrics.py, 151
audio_collection/MainEntities/city.py, 151
audio_collection/MainEntities/collaboration.py, 152
audio_collection/MainEntities/cover.py, 152
audio_collection/MainEntities/date.py, 152
audio_collection/MainEntities/duration.py, 153
audio_collection/MainEntities/genre.py, 153
audio_collection/MainEntities/label.py, 153
audio_collection/MainEntities/remix.py, 153
audio_collection/MainEntities/track.py, 154
audio_collection/Playback Directory Reference, 17
audio_collection/Playback/__init__.py, 140
audio_collection/Playback/equalizer.py, 154
audio_collection/Playback/queue.py, 154
audio_collection/Playback/track_statistics.py, 155
audio_collection/Playlists Directory Reference, 17
audio_collection/Playlists/__init__.py, 140
audio_collection/Playlists/Collections Directory Reference, 16
audio_collection/Playlists/Collections/__init__.py, 141
audio_collection/Playlists/Collections/collection.py, 155
audio_collection/Playlists/Collections/genre_collection.py, 155
audio_collection/Playlists/favourite.py, 155
audio_collection/Playlists/favourite_tracks.py, 156
audio_collection/Playlists/history.py, 156
audio_collection/Playlists/media_library.py, 156
audio_collection/Playlists/playlist.py, 157
audio_collection/Subscription Directory Reference, 18
audio_collection/Subscription/__init__.py, 141
audio_collection/Subscription/personal_account.py, 157
audio_collection/Subscription/subscription.py, 157
audio_collection/Tests Directory Reference, 18
audio_collection/Tests/__init__.py, 141
audio_collection/Tests/test_authentication.py, 157
audio_collection/Tests/test_community.py, 158
audio_collection/Tests/test_id_manage.py, 158
audio_collection/Tests/test_main_entities.py, 158
audio_collection/Tests/test_playback.py, 159
audio_collection/Tests/test_playlists.py, 159
audio_collection/Tests/test_subscription.py, 160
audio_collection/Tests/test_user_manage.py, 160
audio_collection/UserManage Directory Reference, 18
audio_collection/UserManage/__init__.py, 141
audio_collection/UserManage/password.py, 160
audio_collection/UserManage/premium_user.py, 160
audio_collection/UserManage/user.py, 161
audio_collection/UserManage/user_profile.py, 161
audio_collection/UserManage/username.py, 161
audio_collection/UserManage/username_validator.py, 161
author
    audio_collection.MainEntities.remix.Remix, 102
average_rating
    audio_collection.MainEntities.Albums.album.Album, 40

bio
    audio_collection.UserManage.user_profile.UserProfile, 136
birth_year
    audio_collection.MainEntities.Artists.musician.Musician, 84
birthdate
    audio_collection.UserManage.user_profile.UserProfile, 136
buy_subscription
    audio_collection.UserManage.user.User, 128
buy_ticket
    audio_collection.UserManage.user.User, 128

change
    audio_collection.UserManage.password.Password, 86
cities
    audio_collection.MainEntities.Artists.tour.Tour, 113
city
    audio_collection.MainEntities.Albums.live_album.LiveAlbum, 78
    audio_collection.MainEntities.Artists.concert.Concert, 55
    audio_collection.MainEntities.city.City, 50
clear_queue
    audio_collection.Playback.queue.Queue, 96
clear_stats
    audio_collection.Playback.track_statistics.TrackStatistics, 123
collections
    audio_collection.UserManage.premium_user.PremiumUser, 94
comment_track
    audio_collection.UserManage.user.User, 128
comments
    audio_collection.Playback.track_statistics.TrackStatistics, 123
concert
    audio_collection.MainEntities.Artists.ticket.Ticket, 109
concerts
    audio_collection.MainEntities.Artists.tour.Tour, 113
country
    audio_collection.MainEntities.label.Label, 74
    audio_collection.UserManage.user_profile.UserProfile, 136
cover_author

audio_collection.MainEntities.cover.Cover, 58
create_collection
audio_collection.UserManage.premium_user.PremiumUser, 94
create_playlist
audio_collection.UserManage.user.User, 129
current_track
audio_collection.Playlists.playlist.Playlist, 90, 92

date
audio_collection.MainEntities.Artists.concert.Concert, 55
day
audio_collection.MainEntities.date.Date, 59
define
audio_collection.MainEntities.Albums.album_definer.AlbumDefiner, 43
delete_playlist
audio_collection.UserManage.user.User, 129
delete_track
audio_collection.Playlists.favourite_tracks.FavouriteTracks, 68
audio_collection.Playlists.playlist.Playlist, 90
duration
audio_collection.MainEntities.duration.Duration, 60
audio_collection.MainEntities.track.Track, 116
audio_collection.Playlists.playlist.Playlist, 90

edit_comment
audio_collection.Community.comment.Comment, 54
equalizer
audio_collection.MainEntities.track.Track, 116
equals
audio_collection.UserManage.username_validator.UsernameValidator, 135
extend_subscription
audio_collection.Subscription.subscription.Subscription, 107
audio_collection.UserManage.premium_user.PremiumUser, 95

favourite_tracks
audio_collection.Playlists.media_library.MediaLibrary, 82
audio_collection.UserManage.user.User, 129
followers
audio_collection.MainEntities.Artists.artist.Artist, 46
formated_duration
audio_collection.MainEntities.track.Track, 116
founded_year
audio_collection.MainEntities.label.Label, 75

generate_id
audio_collection.IdManage.album_id.AlbumId, 44
audio_collection.IdManage.id_generator.IdGenerator, 73
audio_collection.IdManage.ticket_id.TicketId, 111
audio_collection.IdManage.track_id.TrackId, 120
audio_collection.IdManage.user_id.UserId, 132
genre, audio_collection.MainEntities.Albums.album.Album, 40
audio_collection.MainEntities.track.Track, 116
audio_collection.Playlists.Collections.genre_collection.GenreCollectio 70
genre_name
audio_collection.MainEntities.genre.Genre, 69
get_album_info
audio_collection.MainEntities.Artists.artist.Artist, 46
get_albums_by_year
audio_collection.MainEntities.Artists.artist.Artist, 46
get_artist_info
audio_collection.MainEntities.label.Label, 75
get_followed
audio_collection.MainEntities.Artists.artist.Artist, 46
get_formated_duration
audio_collection.Playlists.playlist.Playlist, 90
get_info
audio_collection.MainEntities.Albums.album.Album, 40
audio_collection.MainEntities.Artists.musician.Musician, 84
get_liked
audio_collection.MainEntities.Albums.album.Album, 41
get_members_info
audio_collection.MainEntities.Artists.band.Band, 49
get_password_only_for_reg
audio_collection.UserManage.password.Password, 86
get_ticket_info
audio_collection.MainEntities.Artists.ticket.Ticket, 109
get_total_comments
audio_collection.MainEntities.track.Track, 116

history
audio_collection.Playlists.playlist.Playlist, 90

instruments
audio_collection.MainEntities.Artists.musician.Musician, 84
is_used
audio_collection.MainEntities.Artists.ticket.Ticket, 109
is_valid
audio_collection.UserManage.username_validator.UsernameValidato 135

label
audio_collection.MainEntities.Albums.album.Album, 41

like
audio_collection.UserManage.user.User, 129
likes
audio_collection.MainEntities.Albums.album.Album, 41
audio_collection.MainEntities.track.Track, 117
audio_collection.Playback.track_statistics.TrackStatistics, 123
audio_collection.UserManage.user.User, 129
log_in
audio_collection.Authentication.log_in.LogIn, 79
lyrics
audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics, 121
audio_collection.MainEntities.track.Track, 117

media
audio_collection.UserManage.user.User, 130
month
audio_collection.MainEntities.date.Date, 59
month_cost
audio_collection.Subscription.subscription.Subscription, 107
months
audio_collection.Subscription.subscription.Subscription, 107
audio_collection.UserManage.premium_user.PremiumUser, 95
most_recent_comment
audio_collection.Playback.track_statistics.TrackStatistics, 123
musicians
audio_collection.MainEntities.Artists.band.Band, 49

name
audio_collection.MainEntities.Artists.artist.Artist, 46
audio_collection.MainEntities.Artists.musician.Musician, 84
audio_collection.MainEntities.label.Label, 75
audio_collection.Playlists.playlist.Playlist, 91
next_track
audio_collection.Playlists.playlist.Playlist, 91
normalized_name
audio_collection.MainEntities.track.Track, 117

objects
audio_collection.Playlists.favourite.Favourite, 65

pin_album
audio_collection.Playlists.media_library.MediaLibrary, 82
pin_artist
audio_collection.Playlists.media_library.MediaLibrary, 82
pin_playlist
audio_collection.Playlists.media_library.MediaLibrary, 82
play
audio_collection.MainEntities.track.Track, 117
playlist
audio_collection.Playlists.Collections.collection.Collection, 53
playlist_tracks
audio_collection.Playlists.playlist.Playlist, 91
playlists
audio_collection.Playlists.media_library.MediaLibrary, 82
audio_collection.UserManage.user.User, 130
price
audio_collection.MainEntities.Artists.ticket.Ticket, 109
profile
audio_collection.UserManage.user.User, 130

queue
audio_collection.Playlists.playlist.Playlist, 91
queue_next
audio_collection.Playback.queue.Queue, 97

rate_track
audio_collection.UserManage.user.User, 130
rating
audio_collection.MainEntities.Albums.album.Album, 41
audio_collection.Playback.track_statistics.TrackStatistics, 123, 125
ratings
audio_collection.Playback.track_statistics.TrackStatistics, 123
register_user
audio_collection.Authentication.register.Register, 100
remove
audio_collection.Playlists.favourite.Favourite, 66
remove_album
audio_collection.MainEntities.Artists.artist.Artist, 46
remove_artist
audio_collection.MainEntities.label.Label, 75
remove_comment
audio_collection.Playback.track_statistics.TrackStatistics, 124
remove_from_queue
audio_collection.Playback.queue.Queue, 97
remove_like
audio_collection.Playback.track_statistics.TrackStatistics, 124

seat_number
audio_collection.MainEntities.Artists.ticket.Ticket, 109
sell_ticket
audio_collection.MainEntities.Artists.concert.Concert, 55
set_password

audio_collection.Authentication.register.Register, 100
show_queue
audio_collection.Playback.queue.Queue, 97
statistics
audio_collection.MainEntities.track.Track, 117
stats
audio_collection.Playback.track_statistics.TrackStatistics, 124
stop_subscription
audio_collection.Subscription.subscription.Subscription, 107
streams
audio_collection.Playback.track_statistics.TrackStatistics, 124
subtract_from_amount
audio_collection.Subscription.personal_account.PersonalAccount, 88

target
audio_collection.Community.like.Like, 77
test_album
audio_collection.Tests.test_main_entities, 33
test_album_definer
audio_collection.Tests.test_main_entities, 33
test_band
audio_collection.Tests.test_main_entities, 33
test_city
audio_collection.Tests.test_main_entities, 33
test_comment
audio_collection.Tests.test_community, 32
test_duplicate_registration
audio_collection.Tests.test_authentication, 31
test_duration
audio_collection.Tests.test_main_entities, 33
test_favourite
audio_collection.Tests.test_playlists, 34
test_genre
audio_collection.Tests.test_main_entities, 33
test_genre_collection
audio_collection.Tests.test_playlists, 34
test_invalid_username
audio_collection.Tests.test_authentication, 31
test_label
audio_collection.Tests.test_main_entities, 33
test_live_album
audio_collection.Tests.test_main_entities, 33
test_lives
audio_collection.Tests.test_main_entities, 33
test_login_success
audio_collection.Tests.test_authentication, 31
test_login_user_not_exist
audio_collection.Tests.test_authentication, 31
test_login_wrong_password
audio_collection.Tests.test_authentication, 31
test_lyrics
audio_collection.Tests.test_main_entities, 33
test_media
audio_collection.Tests.test_playlists, 35
test_musician
audio_collection.Tests.test_main_entities, 33
test_password
audio_collection.Tests.test_user_manage, 36
test_personal_account
audio_collection.Tests.test_subscription, 35
test_playlist
audio_collection.Tests.test_playlists, 35
test_premium_user
audio_collection.Tests.test_user_manage, 36
test_queue
audio_collection.Tests.test_playback, 34
test_rating
audio_collection.Tests.test_community, 32
test_registration
audio_collection.Tests.test_authentication, 32
test_single
audio_collection.Tests.test_main_entities, 34
test_subscription
audio_collection.Tests.test_subscription, 35
test_track
audio_collection.Tests.test_main_entities, 34
test_track_types
audio_collection.Tests.test_main_entities, 34
test_user
audio_collection.Tests.test_user_manage, 36
test_user_profile
audio_collection.Tests.test_user_manage, 36
test_username
audio_collection.Tests.test_user_manage, 36
test_username_validator
audio_collection.Tests.test_user_manage, 36
ticket_amount
audio_collection.MainEntities.Artists.concert.Concert, 55
audio_collection.MainEntities.Artists.tour.Tour, 113
ticket_id
audio_collection.MainEntities.Artists.ticket.Ticket, 109
ticket_price
audio_collection.MainEntities.Artists.concert.Concert, 56
title
audio_collection.MainEntities.Albums.album.Album, 41
audio_collection.MainEntities.track.Track, 117
tmp_files
audio_collection.Tests.test_authentication, 32
total_comments
audio_collection.Playback.track_statistics.TrackStatistics, 124
total_duration
audio_collection.MainEntities.Albums.album.Album, 41
total_likes
audio_collection.MainEntities.Artists.artist.Artist, 46

audio_collection.Playback.track_statistics.TrackStatistics,
124
total_ratings
audio_collection.Playback.track_statistics.TrackStatistics,
125
total_tracks
audio_collection.MainEntities.Artists.artist.Artist,
46
track_id
audio_collection.MainEntities.track.Track, 117
tracks
audio_collection.MainEntities.Albums.album.Album,
41
audio_collection.Playlists.Collections.genre_collection.GenreCollection,
70
audio_collection.Playlists.favourite_tracks.FavouriteTracks,
68
audio_collection.Playlists.playlist.Playlist, 91

update_bio
audio_collection.UserManage.user.User, 130
upload_lyrics
audio_collection.MainEntities.Artists.track_lyrics.TrackLyrics,
121
use_ticket
audio_collection.MainEntities.Artists.ticket.Ticket,
109
username
audio_collection.UserManage.user.User, 130
audio_collection.UserManage.username.Username,
133
audio_collection.UserManage.username_validator.UsernameValidator,
135

verify
audio_collection.UserManage.password.Password,
86

year
audio_collection.MainEntities.Albums.album.Album,
41
audio_collection.MainEntities.date.Date, 59