

```

{
  "openapi": "3.0.1",
  "info": {
    "title": "OpenAPI definition",
    "version": "v0"
  },
  "servers": [
    {
      "url": "http://localhost:8080",
      "description": "Generated server url"
    }
  ],
  "paths": {
    "/api/songcollection/artists/{uuid}": {
      "get": {
        "tags": [
          "artists-controller"
        ],
        "summary": "Get artist by its unique identifier",
        "operationId": "getArtistById",
        "parameters": [
          {
            "name": "uuid",
            "in": "path",
            "required": true,
            "schema": {
              "type": "string",
              "format": "uuid"
            }
          }
        ],
        "responses": {
          "200": {
            "description": "Found searched artist",
            "content": {
              "application/json": {
                "schema": {
                  "$ref": "#/components/schemas/ArtistResponse"
                }
              }
            }
          },
          "400": {
            "description": "Invalid syntax for path variables"
          },
          "404": {
            "description": "Searched artist not found",
            "content": {
              "application/json": {
                "schema": {
                  "$ref": "#/components/schemas/ExceptionResponse"
                }
              }
            }
          }
        }
      },
      "put": {
        "tags": [
          "artists-controller"
        ],
        "summary": "Create new artist or replace an existing one",
        "operationId": "createOrReplaceArtist",
        "parameters": [
          {
            "name": "uuid",
            "in": "path",
            "required": true,
            "schema": {
              "type": "string",
              "format": "uuid"
            }
          }
        ],
        {
          "name": "Authorization",

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        "in": "header",
        "required": false,
        "schema": {
            "type": "string"
        }
    },
    ],
    "requestBody": {
        "content": {
            "application/json": {
                "schema": {
                    "$ref": "#/components/schemas/NewArtistRequest"
                }
            }
        },
        "required": true
    },
    "responses": {
        "201": {
            "description": "Successfully created a new artist resource",
            "content": {
                "application/json": {
                    "schema": {
                        "$ref": "#/components/schemas/ArtistResponse"
                    }
                }
            }
        },
        "204": {
            "description": "Successfully replaced an existing resource with given uuid"
        },
        "400": {
            "description": "Incorrect syntax for path variables"
        },
        "401": {
            "description": "Invalid token"
        },
        "403": {
            "description": "Invalid role"
        },
        "409": {
            "description": "Conflict: unique name constraint unsatisfied",
            "content": {
                "application/json": {
                    "schema": {
                        "$ref": "#/components/schemas/ExceptionResponse"
                    }
                }
            }
        },
        "422": {
            "description": "Invalid values for request fields",
            "content": {
                "application/json": {
                    "schema": {
                        "$ref": "#/components/schemas/ExceptionResponse"
                    }
                }
            }
        }
    },
    "delete": {
        "tags": [
            "artists-controller"
        ],
        "summary": "Delete artist identified by uuid",
        "operationId": "deleteArtist",
        "parameters": [
            {
                "name": "uuid",
                "in": "path",
                "required": true,
                "schema": {
                    "type": "string",

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        "format": "uuid"
    }
},
{
    "name": "Authorization",
    "in": "header",
    "required": false,
    "schema": {
        "type": "string"
    }
}
],
"responses": {
    "200": {
        "description": "Successfully deleted artist resource",
        "content": {
            "application/json": {
                "schema": {
                    "$ref": "#/components/schemas/ArtistResponse"
                }
            }
        }
    },
    "400": {
        "description": "Incorrect syntax for path variables"
    },
    "401": {
        "description": "Invalid token"
    },
    "403": {
        "description": "Invalid role"
    },
    "404": {
        "description": "Searched artist not found",
        "content": {
            "application/json": {
                "schema": {
                    "$ref": "#/components/schemas/ExceptionResponse"
                }
            }
        }
    }
}
},
"/api/songcollection/songs": {
    "get": {
        "tags": [
            "songs-controller"
        ],
        "summary": "Get all songs",
        "operationId": "getAllSongs",
        "parameters": [
            {
                "name": "page",
                "in": "query",
                "required": false,
                "schema": {
                    "minimum": 0,
                    "type": "integer",
                    "format": "int32"
                }
            },
            {
                "name": "size",
                "in": "query",
                "required": false,
                "schema": {
                    "minimum": 1,
                    "type": "integer",
                    "format": "int32",
                    "default": 9
                }
            }
        ],
    },
    {

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        "name": "searchBy",
        "in": "query",
        "required": false,
        "schema": {
            "pattern": "title|year|genre",
            "type": "string"
        }
    },
    {
        "name": "searchedValue",
        "in": "query",
        "required": false,
        "schema": {
            "type": "string"
        }
    },
    {
        "name": "match",
        "in": "query",
        "required": false,
        "schema": {
            "pattern": "exact",
            "type": "string"
        }
    }
],
"responses": {
    "200": {
        "description": "Found searched songs",
        "content": {
            "application/json": {
                "schema": {
                    "type": "array",
                    "items": {
                        "$ref": "#/components/schemas/SongResponse"
                    }
                }
            }
        }
    },
    "400": {
        "description": "Invalid syntax for query params"
    },
    "422": {
        "description": "Invalid values for query params",
        "content": {
            "application/json": {
                "schema": {
                    "$ref": "#/components/schemas/ExceptionResponse"
                }
            }
        }
    }
}
},
"post": {
    "tags": [
        "songs-controller"
    ],
    "summary": "Add new song to song resources",
    "operationId": "createSong",
    "parameters": [
        {
            "name": "Authorization",
            "in": "header",
            "required": false,
            "schema": {
                "type": "string"
            }
        }
    ]
},
"requestBody": {
    "content": {
        "application/json": {
            "schema": {

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        "$ref": "#/components/schemas/NewSongRequest"
    }
}
},
"required": true
},
"responses": {
    "201": {
        "description": "Successfully added new song resource",
        "content": {
            "application/json": {
                "schema": {
                    "$ref": "#/components/schemas/SongResponse"
                }
            }
        }
    },
    "400": {
        "description": "Malformed request syntax"
    },
    "401": {
        "description": "Invalid token"
    },
    "403": {
        "description": "Invalid role"
    },
    "409": {
        "description": "Mentioned album or artists don't exist yet",
        "content": {
            "application/json": {
                "schema": {
                    "$ref": "#/components/schemas/ExceptionResponse"
                }
            }
        }
    },
    "422": {
        "description": "Semantically erroneous request body fields",
        "content": {
            "application/json": {
                "schema": {
                    "$ref": "#/components/schemas/ExceptionResponse"
                }
            }
        }
    }
}
},
"/api/songcollection/artists/{uuid}/songs": {
    "get": {
        "tags": [
            "artists-controller"
        ],
        "summary": "Get songs for artist identified by uuid",
        "operationId": "getAllSongsForGivenArtist",
        "parameters": [
            {
                "name": "uuid",
                "in": "path",
                "required": true,
                "schema": {
                    "type": "string",
                    "format": "uuid"
                }
            }
        ],
        "responses": {
            "200": {
                "description": "Found artist",
                "content": {
                    "application/json": {
                        "schema": {
                            "$ref": "#/components/schemas/ArtistResponse"
                        }
                    }
                }
            }
        }
    }
}
}
}

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    }
  },
  "400": {
    "description": "Invalid syntax for path variables"
  },
  "404": {
    "description": "Searched artist not found",
    "content": {
      "application/json": {
        "schema": {
          "$ref": "#/components/schemas/ExceptionResponse"
        }
      }
    }
  }
},
},
"post": {
  "tags": [
    "artists-controller"
  ],
  "summary": "Assign songs to an artist",
  "operationId": "assignSongsToArtist",
  "parameters": [
    {
      "name": "uuid",
      "in": "path",
      "required": true,
      "schema": {
        "type": "string",
        "format": "uuid"
      }
    },
    {
      "name": "Authorization",
      "in": "header",
      "required": false,
      "schema": {
        "type": "string"
      }
    }
  ],
  "requestBody": {
    "content": {
      "application/json": {
        "schema": {
          "$ref": "#/components/schemas/NewSongsForArtistRequest"
        }
      }
    },
    "required": true
  },
  "responses": {
    "200": {
      "description": "Successfully updated join table",
      "content": {
        "application/json": {
          "schema": {
            "$ref": "#/components/schemas/ArtistResponse"
          }
        }
      }
    },
    "400": {
      "description": "Incorrect syntax for path variables"
    },
    "401": {
      "description": "Invalid token"
    },
    "403": {
      "description": "Invalid role"
    },
    "404": {
      "description": "Searched artist/song not found",

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        "content": {
          "application/json": {
            "schema": {
              "$ref": "#/components/schemas/ExceptionResponse"
            }
          }
        },
        "409": {
          "description": "The artist is not active",
          "content": {
            "application/json": {
              "schema": {
                "$ref": "#/components/schemas/ExceptionResponse"
              }
            }
          }
        },
        "422": {
          "description": "Invalid values for request fields",
          "content": {
            "application/json": {
              "schema": {
                "$ref": "#/components/schemas/ExceptionResponse"
              }
            }
          }
        }
      }
    },
    "/api/songcollection/songs/{id}": {
      "get": {
        "tags": [
          "songs-controller"
        ],
        "summary": "Get song by its identifier",
        "operationId": "getSongById",
        "parameters": [
          {
            "name": "id",
            "in": "path",
            "required": true,
            "schema": {
              "type": "integer",
              "format": "int32"
            }
          }
        ],
        "responses": {
          "200": {
            "description": "Found searched song",
            "content": {
              "application/json": {
                "schema": {
                  "$ref": "#/components/schemas/SongResponse"
                }
              }
            }
          },
          "400": {
            "description": "Invalid syntax for path variables"
          },
          "404": {
            "description": "Searched song not found",
            "content": {
              "application/json": {
                "schema": {
                  "$ref": "#/components/schemas/ExceptionResponse"
                }
              }
            }
          }
        }
      }
    }
  },
  },

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"delete": {
  "tags": [
    "songs-controller"
  ],
  "summary": "Delete song resource identified by id",
  "operationId": "deleteSong",
  "parameters": [
    {
      "name": "id",
      "in": "path",
      "required": true,
      "schema": {
        "type": "integer",
        "format": "int32"
      }
    },
    {
      "name": "Authorization",
      "in": "header",
      "required": false,
      "schema": {
        "type": "string"
      }
    }
  ],
  "responses": {
    "200": {
      "description": "Successfully deleted song resource",
      "content": {
        "application/json": {
          "schema": {
            "$ref": "#/components/schemas/SongResponse"
          }
        }
      }
    },
    "400": {
      "description": "Incorrect syntax for path variables"
    },
    "401": {
      "description": "Invalid token"
    },
    "403": {
      "description": "Invalid role"
    },
    "404": {
      "description": "Searched song not found",
      "content": {
        "application/json": {
          "schema": {
            "$ref": "#/components/schemas/ExceptionResponse"
          }
        }
      }
    },
    "409": {
      "description": "Conflict: cannot remove album without removing all its songs",
      "content": {
        "application/json": {
          "schema": {
            "$ref": "#/components/schemas/ExceptionResponse"
          }
        }
      }
    }
  }
},
"patch": {
  "tags": [
    "songs-controller"
  ],
  "summary": "Update an existing song",
  "operationId": "updateSong",
  "parameters": [
    {

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        "name": "id",
        "in": "path",
        "required": true,
        "schema": {
            "type": "integer",
            "format": "int32"
        }
    },
    {
        "name": "Authorization",
        "in": "header",
        "required": false,
        "schema": {
            "type": "string"
        }
    }
],
"requestBody": {
    "content": {
        "application/json": {
            "schema": {
                "$ref": "#/components/schemas/SongForUpdateRequest"
            }
        }
    },
    "required": true
},
"responses": {
    "204": {
        "description": "Successfully updated"
    },
    "400": {
        "description": "Incorrect syntax for path variables"
    },
    "401": {
        "description": "Invalid token"
    },
    "403": {
        "description": "Invalid role"
    },
    "404": {
        "description": "Song not found",
        "content": {
            "application/json": {
                "schema": {
                    "$ref": "#/components/schemas/ExceptionResponse"
                }
            }
        }
    },
    "422": {
        "description": "Invalid music genre",
        "content": {
            "application/json": {
                "schema": {
                    "$ref": "#/components/schemas/ExceptionResponse"
                }
            }
        }
    }
}
},
"/api/songcollection/songs/{id}/artists": {
    "get": {
        "tags": [
            "songs-controller"
        ],
        "summary": "Get artists for song identified by id",
        "operationId": "getAllArtistsForGivenSong",
        "parameters": [
            {
                "name": "id",
                "in": "path",
                "required": true,

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        "schema": {
            "type": "integer",
            "format": "int32"
        }
    },
    ],
    "responses": {
        "200": {
            "description": "Found song by id",
            "content": {
                "application/json": {
                    "schema": {
                        "type": "array",
                        "items": {
                            "$ref": "#/components/schemas/ArtistResponse"
                        }
                    }
                }
            }
        },
        "400": {
            "description": "Invalid syntax for path variables"
        },
        "404": {
            "description": "Searched song not found",
            "content": {
                "application/json": {
                    "schema": {
                        "$ref": "#/components/schemas/ExceptionResponse"
                    }
                }
            }
        }
    }
},
"/api/songcollection/artists": {
    "get": {
        "tags": [
            "artists-controller"
        ],
        "summary": "Get all artists",
        "operationId": "getAllArtists",
        "parameters": [
            {
                "name": "page",
                "in": "query",
                "required": false,
                "schema": {
                    "minimum": 0,
                    "type": "integer",
                    "format": "int32"
                }
            },
            {
                "name": "size",
                "in": "query",
                "required": false,
                "schema": {
                    "minimum": 1,
                    "type": "integer",
                    "format": "int32",
                    "default": 1
                }
            },
            {
                "name": "name",
                "in": "query",
                "required": false,
                "schema": {
                    "pattern": "^[a-zA-Z\\s]+",
                    "type": "string"
                }
            }
        ]
    },
    {

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        "name": "match",
        "in": "query",
        "required": false,
        "schema": {
            "pattern": "exact",
            "type": "string"
        }
    }
},
"responses": {
    "200": {
        "description": "Found searched artists",
        "content": {
            "application/json": {
                "schema": {
                    "type": "array",
                    "items": {
                        "$ref": "#/components/schemas/ArtistResponse"
                    }
                }
            }
        }
    },
    "400": {
        "description": "Invalid syntax for query params"
    },
    "422": {
        "description": "Invalid values for query params",
        "content": {
            "application/json": {
                "schema": {
                    "$ref": "#/components/schemas/ExceptionResponse"
                }
            }
        }
    }
}
},
"components": {
    "schemas": {
        "NewArtistRequest": {
            "required": [
                "name"
            ],
            "type": "object",
            "properties": {
                "name": {
                    "pattern": "^[a-zA-Z\\s]+",
                    "type": "string"
                },
                "active": {
                    "pattern": "true|false",
                    "type": "string"
                }
            }
        },
        "ExceptionResponse": {
            "type": "object",
            "properties": {
                "error": {
                    "type": "string"
                },
                "status": {
                    "type": "integer",
                    "format": "int32"
                },
                "details": {
                    "type": "string"
                }
            }
        },
        "ArtistResponse": {
            "required": [

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        "name"
    ],
    "type": "object",
    "properties": {
        "uuid": {
            "type": "string",
            "format": "uuid"
        },
        "name": {
            "type": "string"
        },
        "active": {
            "type": "boolean"
        },
        "songs": {
            "uniqueItems": true,
            "type": "array",
            "items": {
                "$ref": "#/components/schemas/SongResponse"
            }
        },
        "hasSongs": {
            "type": "boolean"
        },
        "links": {
            "type": "array",
            "items": {
                "$ref": "#/components/schemas/Link"
            }
        }
    }
},
"Link": {
    "type": "object",
    "properties": {
        "rel": {
            "type": "string"
        },
        "href": {
            "type": "string"
        },
        "hreflang": {
            "type": "string"
        },
        "media": {
            "type": "string"
        },
        "title": {
            "type": "string"
        },
        "type": {
            "type": "string"
        },
        "deprecation": {
            "type": "string"
        },
        "profile": {
            "type": "string"
        },
        "name": {
            "type": "string"
        }
    }
},
"SongResponse": {
    "type": "object",
    "properties": {
        "id": {
            "type": "integer",
            "format": "int32"
        },
        "name": {
            "type": "string"
        },
        "genre": {

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        "type": "string",
        "enum": [
            "HEAVY_METAL",
            "ROCK",
            "POP",
            "COUNTRY"
        ]
    },
    "year": {
        "type": "integer",
        "format": "int32"
    },
    "type": {
        "type": "string",
        "enum": [
            "ALBUM",
            "SONG",
            "SINGLE"
        ]
    },
    "parentId": {
        "type": "integer",
        "format": "int32"
    },
    "links": {
        "type": "array",
        "items": {
            "$ref": "#/components/schemas/Link"
        }
    }
},
},
"NewSongRequest": {
    "required": [
        "artists",
        "genre",
        "name",
        "type"
    ],
    "type": "object",
    "properties": {
        "name": {
            "pattern": "^[^ 'a-zA-Z\\s]+",
            "type": "string"
        },
        "genre": {
            "type": "string"
        },
        "year": {
            "maximum": 9999,
            "minimum": 0,
            "type": "integer",
            "format": "int32"
        },
        "type": {
            "type": "string"
        },
        "parentId": {
            "type": "integer",
            "format": "int32"
        },
        "artists": {
            "uniqueItems": true,
            "type": "array",
            "items": {
                "type": "string"
            }
        }
    }
},
},
"NewSongsForArtistRequest": {
    "required": [
        "songsId"
    ],
    "type": "object",

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    "properties": {
      "songsId": {
        "type": "array",
        "items": {
          "type": "integer",
          "format": "int32"
        }
      }
    },
  },
  "SongForUpdateRequest": {
    "required": [
      "genre",
      "name"
    ],
    "type": "object",
    "properties": {
      "name": {
        "pattern": "^[ -'a-zA-Z\\s]+",
        "type": "string"
      },
      "genre": {
        "type": "string"
      },
      "year": {
        "maximum": 9999,
        "minimum": 0,
        "type": "integer",
        "format": "int32"
      }
    }
  }
}
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