

# Games Database API

## Genres

Path: [/genre/all](#)

Method: GET

Returns: all the genres with **HttpStatus 200**

```
[
  {
    "id": 1,
    "name": "Horror"
  },
]
```

---

Path: [/genre](#)

Method: GET

Parameters:

- **id** - the id of the searched genre

Returns:

1. The genre with **HttpStatus 200** - if the genre is found

```
{
  "id": 1,
  "name": "Horror"
}
```

2. **HttpStatus 404** - if the genre does not exist
- 

Path: [/genre/insert](#)

Method: POST

Parameters:

- **name** - the name of the genre

Returns:

1. The inserted genre with **HttpStatus 201** - if the genre is inserted successfully

```
{
  "id": 1,
  "name": "Horror"
}
```

2. **HttpStatus 406** - if the genre we try to create is with empty name
  3. **HttpStatus 409** - if the genre already exist
  4. **HttpStatus 404** - if the genre is not inserted successfully
- 

Path: [/genre/update](#)

Method: PUT

Parameters:

- **id** - the id of the genre that will be updated
- **name** - the name of the genre

**Returns:**

1. The **updated genre** with **HttpStatus 200** - *if the genre is updated successfully*

```
{  
  "id": 1,  
  "name": "Horror"  
}
```

2. **HttpStatus 404** - *if the genre does not exist*
  3. **HttpStatus 406** - *if the genre we try to update is with empty name*
  4. **HttpStatus 409** - *if there is already genre with this name in the database*
- 

**Path:** </genre/delete>

**Method:** DELETE

**Parameters:**

- **id** - *the id of the genre that will be deleted*

**Returns:**

1. **True** with **HttpStatus 200** - *if the genre is deleted successfully*
2. **False** with **HttpStatus 404** - *if the genre does not exist*

# Platforms

Path: </platform/all>

Method: GET

Returns: all the platforms with **HttpStatus 200**

```
[
  {
    "id": 1,
    "name": "PC"
  },
]
```

---

Path: </platform>

Method: GET

Parameters:

- **id** - the id of the searched platform

Returns:

1. The platform with **HttpStatus 200** - if the platform is found

```
{
  "id": 1,
  "name": "PC"
}
```

2. **HttpStatus 404** - if the genre does not exist
- 

Path: </platform/insert>

Method: POST

Parameters:

- **name** - the name of the platform

Returns:

1. The inserted platform with **HttpStatus 201** - if the platform is inserted successfully

```
{
  "id": 1,
  "name": "PC"
}
```

2. **HttpStatus 406** - if the platform we try to create is with empty name
  3. **HttpStatus 409** - if the platform already exist
  4. **HttpStatus 404** - if the platform is not inserted successfully
- 

Path: </platform/update>

Method: PUT

Parameters:

- **id** - the id of the platform that will be updated
- **name** - the name of the platform

Returns:

1. The updated platform with **HttpStatus 200** - if the platform is updated successfully

```
{
  "id": 1,
```

```
"name": "PC"
}
```

2. **HttpStatus 404** - *if the platform does not exist*
  3. **HttpStatus 406** - *if the platform we try to update is with empty name*
  4. **HttpStatus 409** - *if there is already platform with this name in the database*
- 

**Path:** </platform/delete>

**Method:** DELETE

**Parameters:**

- **id** - *the id of the platform that will be deleted*

**Returns:**

1. **True** with **HttpStatus 200** - *if the platform is deleted successfully*
2. **False** with **HttpStatus 404** - *if the platform does not exist*

# Developers

Path: [/developer/all](#)

Method: GET

Returns: all the developers with **HttpStatus 200**

```
[
  {
    "id": 1,
    "name": "Atari",
    "description": "Arati is ..."
  },
]
```

---

Path: [/developer](#)

Method: GET

Parameters:

- **id** - *the id of the searched developer*

Returns:

1. **The developer with HttpStatus 200** - *if the developer is found*

```
{
  "id": 1,
  "name": "Atari",
  "description": "Atari is ..."
}
```

2. **HttpStatus 404** - *if the developer does not exist*
- 

Path: [/developer/insert](#)

Method: POST

Parameters:

- **name** - *the name of the developer*
- **? description** - *description about the developer*

Returns:

1. **The inserted developer with HttpStatus 201** - *if the developer is inserted successfully*

```
{
  "id": 1,
  "name": "Atari"
  "description": "Atari is ..."
}
```

2. **HttpStatus 406** - *if the developer we try to create is with empty name*
  3. **HttpStatus 409** - *if the developer already exist*
  4. **HttpStatus 404** - *if the developer is not inserted successfully*
- 

Path: [/developer/update](#)

Method: PUT

Parameters:

- **id** - *the id of the developer that will be updated*

- **? name** - *the name of the developer*
- **? description** - *description about the developer*

**Returns:**

1. The **updated developer** with **HttpStatus 200** - *if the developer is updated successfully*

```
{  
  "id": 1,  
  "name": "Atari"  
  "description": "Arati is ..."  
}
```

2. **HttpStatus 404** - *if the developer does not exist*
3. **HttpStatus 406** - *if the developer we try to update is with empty name*
4. **HttpStatus 409** - *if there is already developer with this name in the database*

---

**Path:** </developer/delete>

**Method:** DELETE

**Parameters:**

- **id** - *the id of the developer that will be deleted*

**Returns:**

1. **True** with **HttpStatus 200** - *if the developer is deleted successfully*
2. **False** with **HttpStatus 404** - *if the developer does not exist*

# Games

**Note:** [/images-folder](#) gives us the path to the images folder that we have on the server.

**Path:** [/game/all](#)

**Method:** GET

**Returns:** all the games with **HttpStatus 200**

```
[
  {
    "id": 1,
    "name": "Roller Coaster Tycoon 3",
    "description": "RCT 3 is ...",
    "image": "game_cover.png",
    "genres": [
      {
        "id": 74,
        "name": "Tycoon"
      },
      {
        "id": 75,
        "name": "Simulator"
      }
    ],
    "platforms": [
      {
        "id": 1,
        "name": "PC"
      }
    ],
    "developer": {
      "id": 1,
      "name": "Atari",
      "description": "Atari is ..."
    }
  },
]
```

---

**Path:** [/game](#)

**Method:** GET

**Parameters:**

- **id** - the id of the searched game

**Returns:**

1. **The game with HttpStatus 200** - if the game is found

```
{
  "id": 1,
  "name": "Roller Coaster Tycoon 3",
  "description": "RCT 3 is ...",
```

```

    "image": "game_cover.png",
    "genres": [
      {
        "id": 74,
        "name": "Tycoon"
      },
      {
        "id": 75,
        "name": "Simulator"
      }
    ],
    "platforms": [
      {
        "id": 1,
        "name": "PC"
      }
    ],
    "developer": {
      "id": 1,
      "name": "Atari",
      "description": "Atari is ..."
    }
  }
}

```

## 2. HttpStatus 404 - if the game does not exist

---

**Path:** </game/search>

**Method:** GET

**Parameters:**

- **? genres\_id\_list** - list of genres that we want the searched games to belong
- **? platforms\_id\_list** - list of platforms that we want the searched games to belong

**Returns:**

1. **All the games that belong to searched genres and/or platforms with HttpStatus 200**

```

[
  {
    "id": 1,
    "name": "Roller Coaster Tycoon 3",
    "description": null,
    "image": null,
    "genres": [
      {
        "id": 1,
        "name": "Arcade"
      },
      {
        "id": 2,
        "name": "Action"
      }
    ]
  }
]

```



```

        {
            "id": 3,
            "name": "Adventure"
        }
    ],
    "platforms": [
        {
            "id": 1,
            "name": "PC"
        }
    ],
    "developer": {
        "id": 1,
        "name": "Atari",
        "description": null
    }
},
]

```

**Path:** </game/insert>

**Method:** POST

**Parameters:**

- **name** - the name of the game
- **? description** - description about the game
- **? image** - the image
- **? developer\_id** - the developer id
- **? genres\_id\_list** - the genres id list, example: 1, 2, 3
- **? platforms\_id\_list** - the platforms id list, example: 1, 2, 3

**Notes:** If front-end is on JavaScript, because there is image that have to be sent from front-end to back-end, the data have to be sent as object of FormData(); Example:

```

var formData = new FormData();

formData.append("name", $("#name").val())
formData.append("image", $("#image")[0].files[0]);
formData.append("genres_id_list", $("#genres").val());

$.ajax({
    url: '/game/insert',
    type: 'POST',
    processData: false,
    contentType: false,
    cache: false,
    data: formData,
    enctype: 'multipart/form-data',
    xhrFields: {withCredentials: true},

```

```

complete: function(data) {
    console.log(data);
}
});

```

#### Returns:

1. The inserted game with **HttpStatus 201** - if the game is inserted successfully

```

{
  "id": 1,
  "name": "Roller Coaster Tycoon 3",
  "description": "RCT 3 is ...",
  "image": "game_cover.png",
  "genres": [
    {
      "id": 74,
      "name": "Tycoon"
    },
    {
      "id": 75,
      "name": "Simulator"
    }
  ],
  "platforms": [
    {
      "id": 1,
      "name": "PC"
    }
  ],
  "developer": {
    "id": 1,
    "name": "Atari",
    "description": "Atari is ..."
  }
}

```

2. **HttpStatus 406** - if the game we try to insert is with empty name
3. **HttpStatus 409** - if the game already exist
4. **HttpStatus 400** - if the developer is not found, some of the genres are not found or some of the platforms are not found
5. **HttpStatus 404** - if the game is not inserted successfully
6. **HttpStatus 403** - if not authorized with `ROLE_ADMIN` or `ROLE_USER`

---

Path: </game/update>

Method: PUT

#### Parameters:

- **id** - the id of the game that will be updated
- **? name** - the name of the game
- **? description** - description about the game

- ? image - the image
- ? developer\_id - the developer id
- ? genres\_id\_list - the genres id list, example: 1, 2, 3

**Returns:**

1. The **updated game** with **HttpStatus 200** - if the game is updated successfully

```
{
  "id": 1,
  "name": "Roller Coaster Tycoon 3",
  "description": "RCT 3 is ...",
  "image": "game_cover.png",
  "genres": [
    {
      "id": 74,
      "name": "Tycoon"
    },
    {
      "id": 75,
      "name": "Simulator"
    }
  ],
  "platforms": [
    {
      "id": 1,
      "name": "PC"
    }
  ],
  "developer": {
    "id": 1,
    "name": "Atari",
    "description": "Atari is ..."
  }
}
```

2. **HttpStatus 404** - if the game does not exist
3. **HttpStatus 406** - if the game we try to update is with empty name
4. **HttpStatus 400** - if the developer is not found, some of the genres are not found, some of the platforms are not found or if the logged user is different than user that added the game
5. **HttpStatus 409** - if there is already game with this name in the database
6. **HttpStatus 403** - if not authorized with **ROLE\_ADMIN** or **ROLE\_USER**

---

**Path:** </game/delete>

**Method:** DELETE

**Parameters:**

- id - the id of the game that will be deleted

**Returns:**

1. **True** with **HttpStatus 200** - if the game is deleted successfully
2. **False** with **HttpStatus 404** - if the game does not exist

3. **HttpStatus 403** - *if not authorized with ROLE\_ADMIN*

# Authentication

**Path:** [/login](#)

**Method:** POST

**Parameters:**

- **username** - *the username*
- **password** - *the password*

**Returns:**

1. **The logged user with HttpStatus 200**

```
{
  "id": 1,
  "username": "Bob",
  "roles": [
    {
      "id": 2,
      "name": "ROLE"
    }
  ]
}
```

2. **HttpStatus 404** - *if the user does not exist*
- 

**Path:** [/register](#)

**Method:** POST

**Parameters:**

- **username** - *the username*
- **password** - *the password*
- **repassword** - *the confirm password*

**Returns:**

1. **The registered user with HttpStatus 201**

```
{
  "id": 1,
  "username": "Bob",
  "roles": [
    {
      "id": 2,
      "name": "ROLE"
    }
  ]
}
```

2. **HttpStatus 404** - *if the user is not registered successfully*
  3. **HttpStatus 400** - *if both password does not match*
  4. **HttpStatus 409** - *if there is already a user with this username*
  5. **HttpStatus 406** - *if username or password is empty*
- 

**Path:** [/logout-user](#)

**Action:** Invalidate current session (logout the logged user)

**Returns:** True

---

**Path:** `/getWhoAmI`

**Method:** GET

**Returns:**

1. **The logged user with HttpStatus 200**

```
{
  "id": 1,
  "username": "Bob",
  "roles": [
    {
      "id": 2,
      "name": "ROLE"
    }
  ]
}
```

2. **HttpStatus 404** - *if there is no logged user*

# Front-end

If you are using JavaScript (ajax) for front-end, you have to enable cross-origin requests.

```
$.ajax({  
    method: ...,  
    url: ...,  
    data: {...},  
    xhrFields: {withCredentials: true},  
    ...  
});
```

Because there is an image that have to be sent, you have to use **FormData** object to send the request.

```
var formData = new FormData();  
  
formData.append("name", $("#gameInputName").val());  
...
```