API Documentation for Human Vs Zombies

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API introduction

This document serves as a comprehensive guide to the API endpoints developed for the project Humans Vs Zombies. The purpose of this documentation is to provide developers and stakeholders with a detailed understanding of each API endpoint and its functionalities.

API documentation plays a critical role in software development, as it serves as a reference point for developers and helps ensure consistency and reliability across different systems. Without proper documentation, developers may struggle to understand how to use an API effectively, leading to errors and inefficiencies in the development process.

By providing clear and concise documentation for each API endpoint, we can ensure that developers have the necessary information to use the endpoints correctly, resulting in a more efficient and effective development process.

This document outlines the details of each API endpoint, including the endpoint method, endpoint path, required and accepted headers, accepted parameters, expected changes to the data, possible responses and their meanings, and possible error cases with explanations.

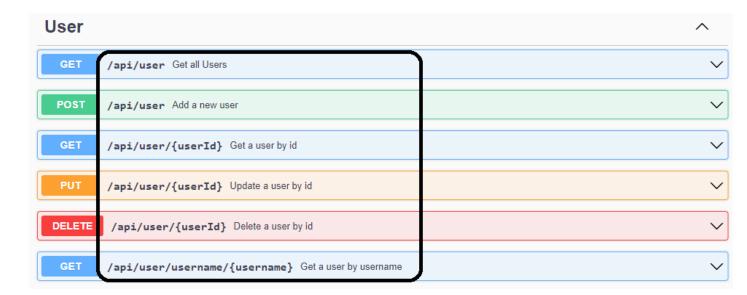


The endpoint method for this project has four main methods: GET, POST, PUT and DELETE. The image below shows the endpoint methods that are used in this project marked in black. Each endpoint has a small description of what the endpoint method does.



The endpoint path in this project is mostly /api/game, as most API endpoints are related to the game. The exception is the user API, which is /api/user. Most of the APIs require additional parameters. For example, to GET players, you need to provide the game ID for which you want to get a list of players. The endpoint path would be like this: /api/game/{gameId}/player. "{gameId}" is the parameter you enter, which in this case is an integer representing the game ID for which you want to GET all players in a game. The endpoint path for game and user is marked in black in the example.

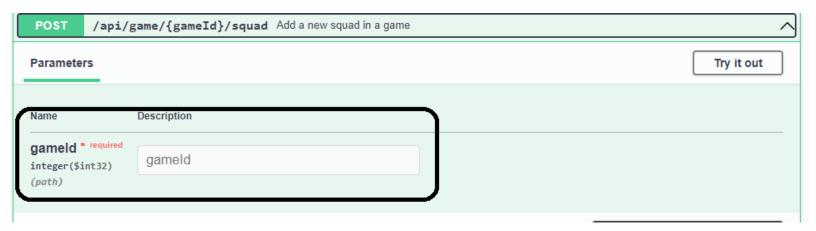




The accepted headers for this project APIs are application/json.

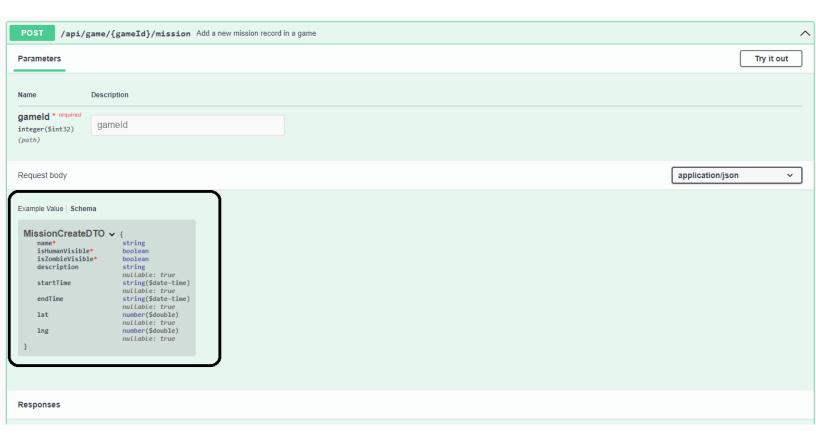


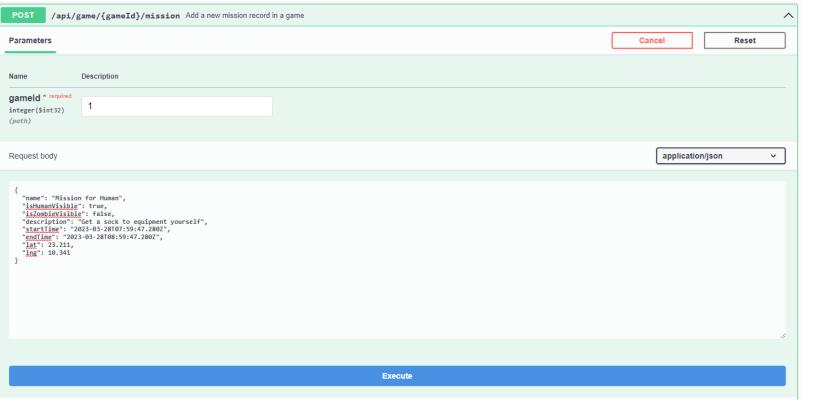
The API parameters include required fields for the path and their data type, which must be specified before calling the API. In this example, when attempting to post a new squad, you must first specify the game ID, which is an integer field, to indicate which game the squad belongs to



Each endpoint indicates the accepted parameters, including which are required and which can be nullable. In the image below, you can see the parameters for the creation of a mission endpoint, with required fields marked in red.

When making changes to data, such as in a POST mission request, the request body fields can be used. In this example, we have chosen game 1 to create a new mission. The 'name', 'isHumanVisible', and 'isZombieVisible' fields are mandatory, while the other fields are optional. By entering data in the specified fields, we expect to see corresponding changes in the parameters.





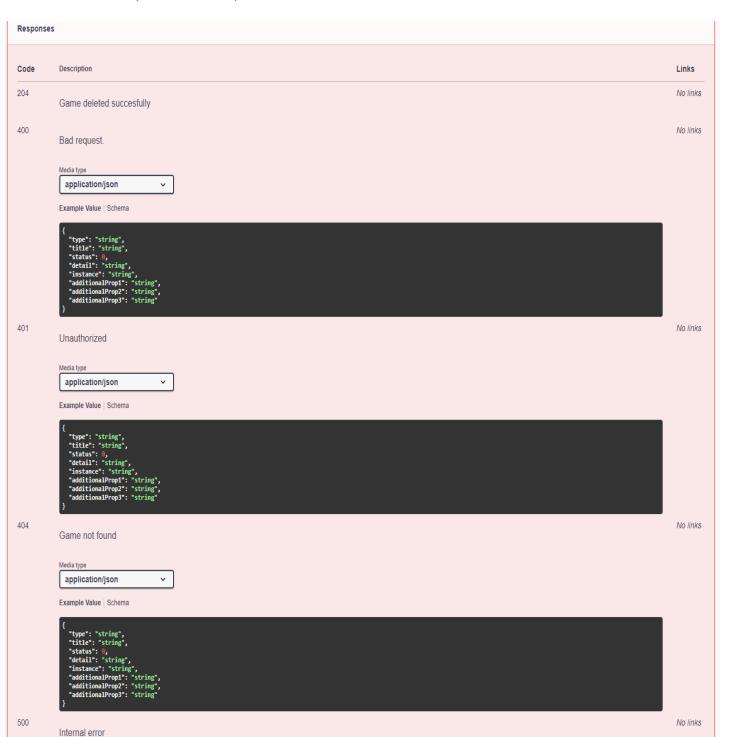
All the APIs endpoints have multiple response types. Each response code has a different meaning. In our project we have:

Response code:

200 OK	The request succeeded
201 Created	The request succeeded, and a new resource was created as a result
204 No Content	Update success
400 Bad request	The server cannot or will not process the request due to something that is perceived to be a client error (invalid syntax)

401 Unauthorized	Client must authenticate itself to get the requested response
404 Not found	Indicates that the server cannot find the requested resource
500 Internal Server Error	the server encountered something unexpected that prevented it from fulfilling the request

Here is an example of a response code for deleting a game with response code and a description of the response code.



Here is an example of a possible error case. As shown in the image below, when attempting to use POST to add a squad member to a specific squad by game ID and squad ID, a 404 response code is received indicating the resource was not found. The error message provides an explanation of the issue, stating that the game with ID 4 could not be found

/api/game/{gameId}/squadId}/join Add a squad member to the specific squad by gameld and squadId					
Parameters				Cancel	Reset
Name	Description				
<pre>gameId * required integer(\$int32) (path)</pre>	4				
<pre>squadld * required integer(\$int32) (path)</pre>	1				
Request body				application	on/json v
{ "playerId": 1 }					
	Execute		Clear		

Code	Details
404	Error: response status is 404 Response body "Game with id 4 does not exist"
	access-control-allow-origin: * content-type: application/json; charset=utf-8 date: Tue,28 Mar 2023 08:23:35 GMT server: Microsoft-IIS/10.0 x-powered-by: ASP.NET

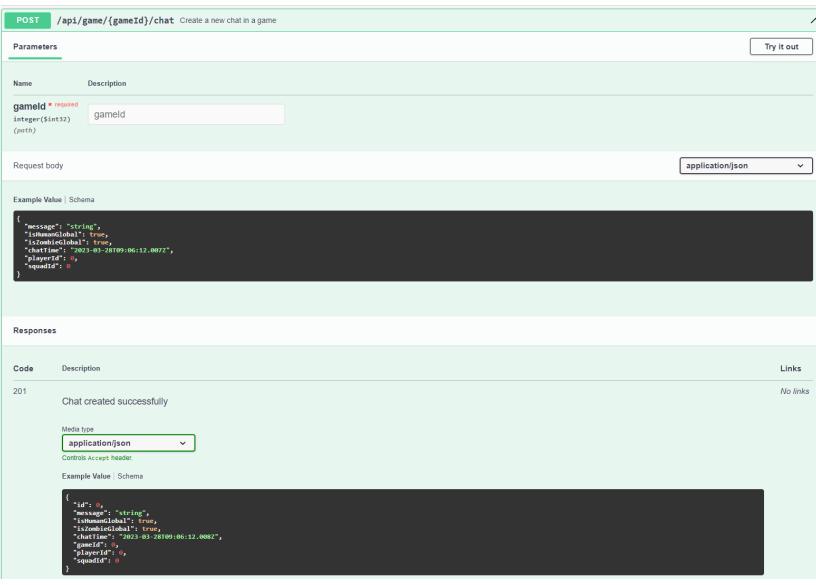
Chat

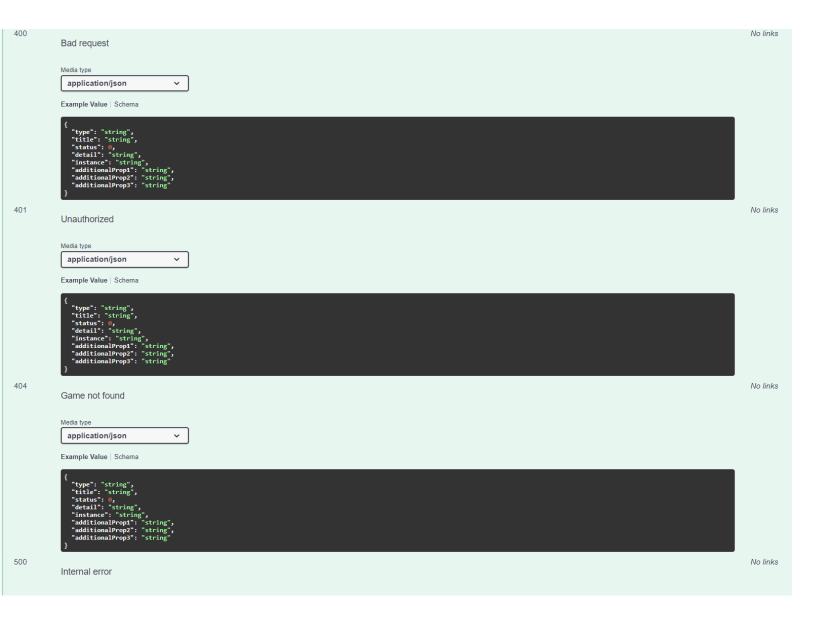
Chat

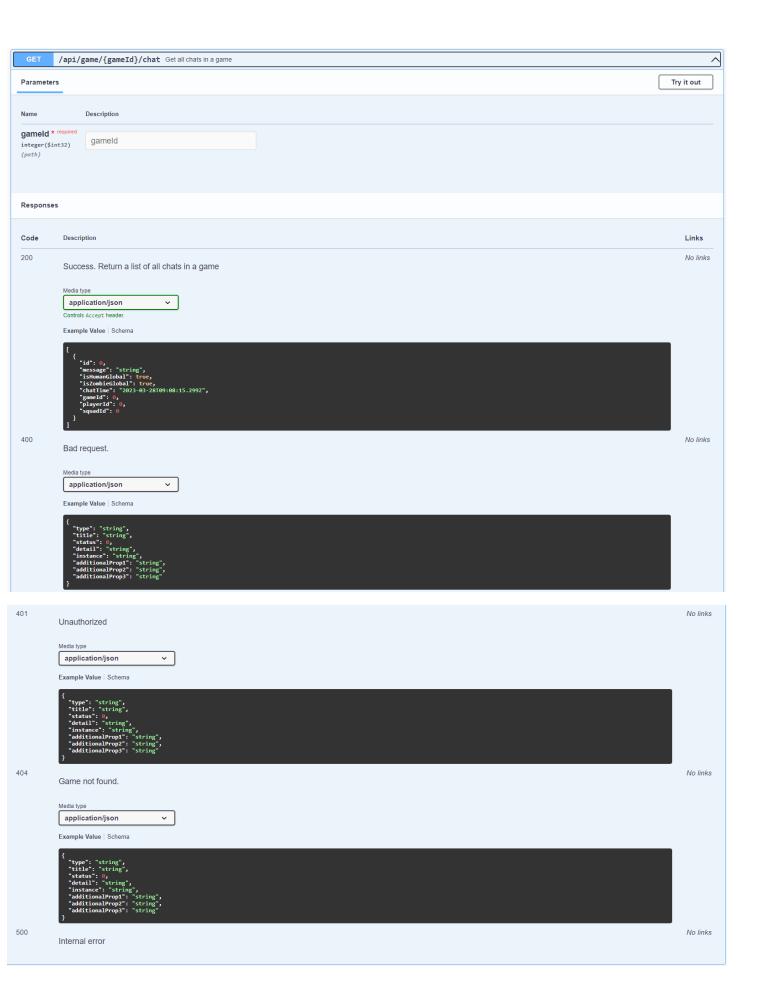
POST /api/game/{gameId}/chat Create a new chat in a game

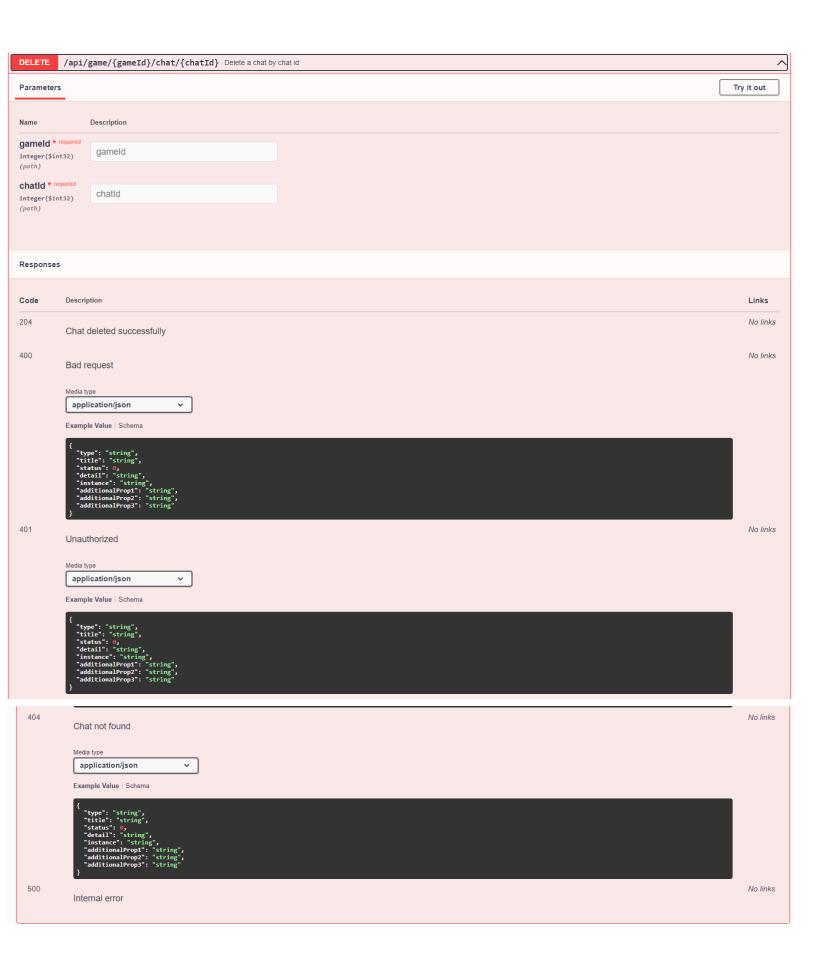
/api/game/{gameId}/chat Get all chats in a game

DELETE /api/game/{gameId}/chat/{chatId} Delete a chat by chat id



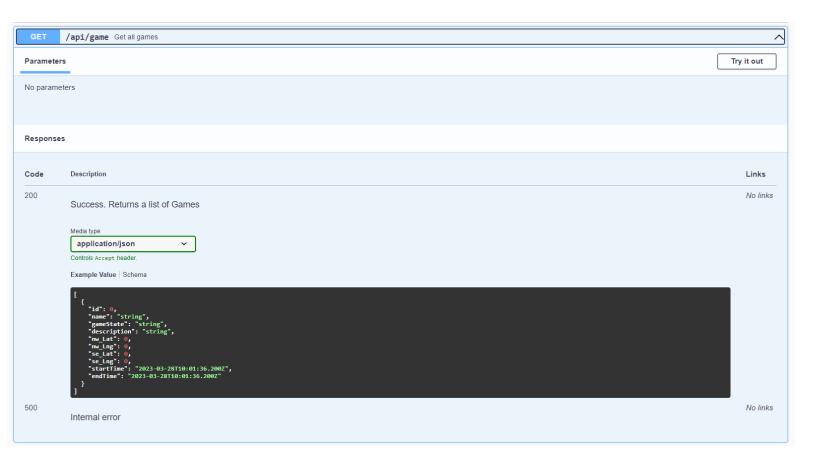


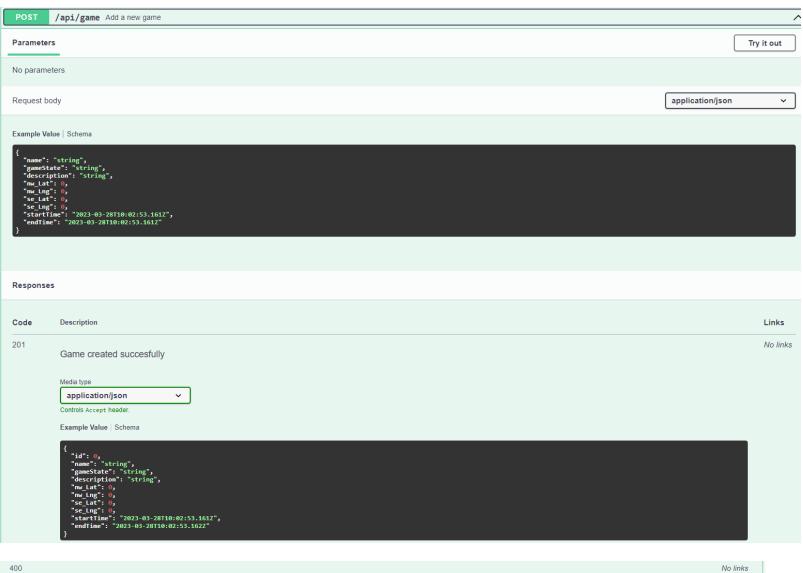




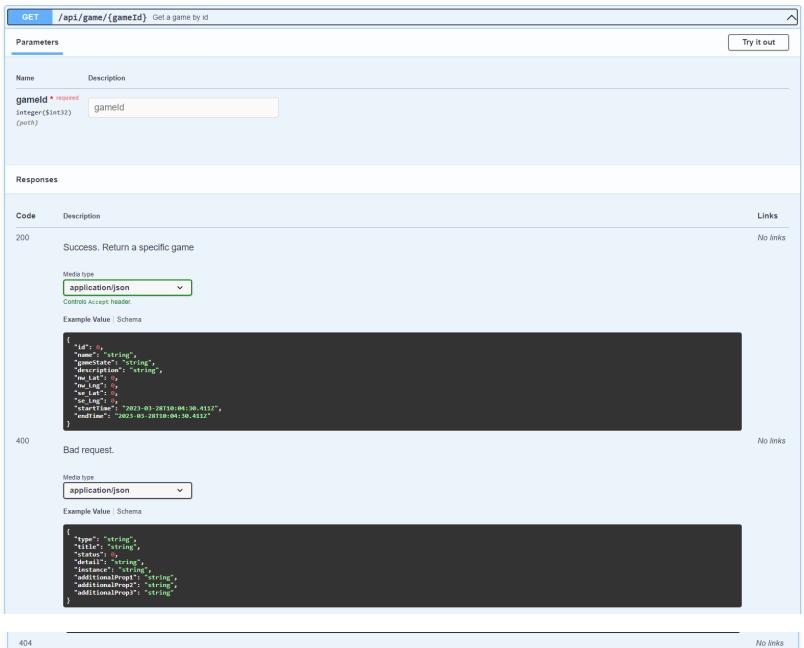
Game

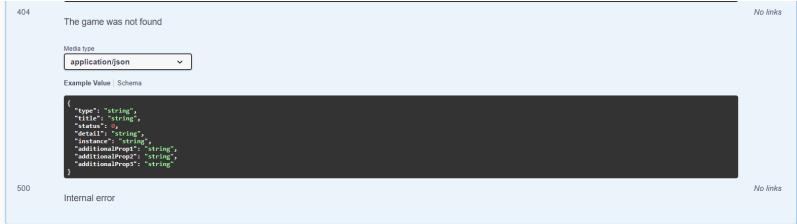


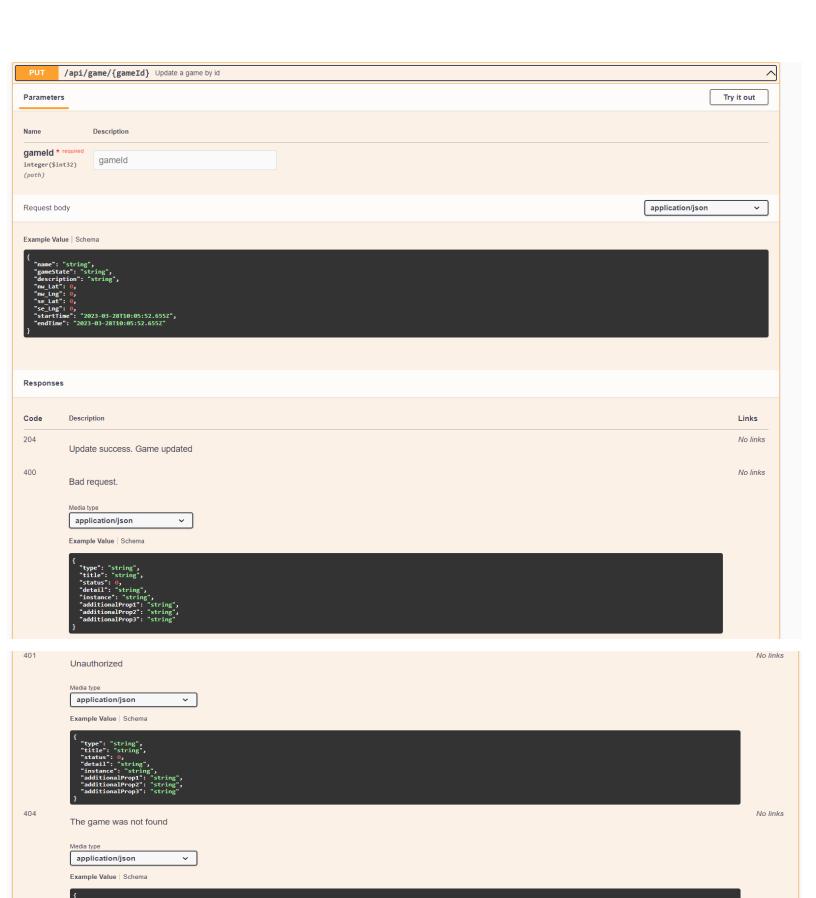






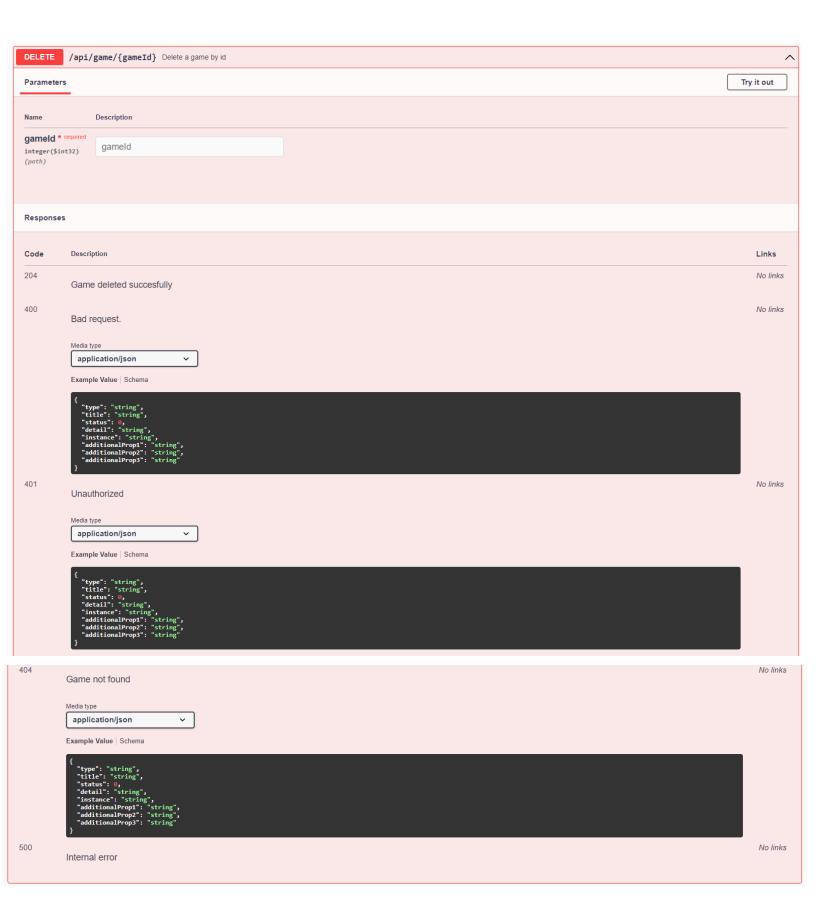




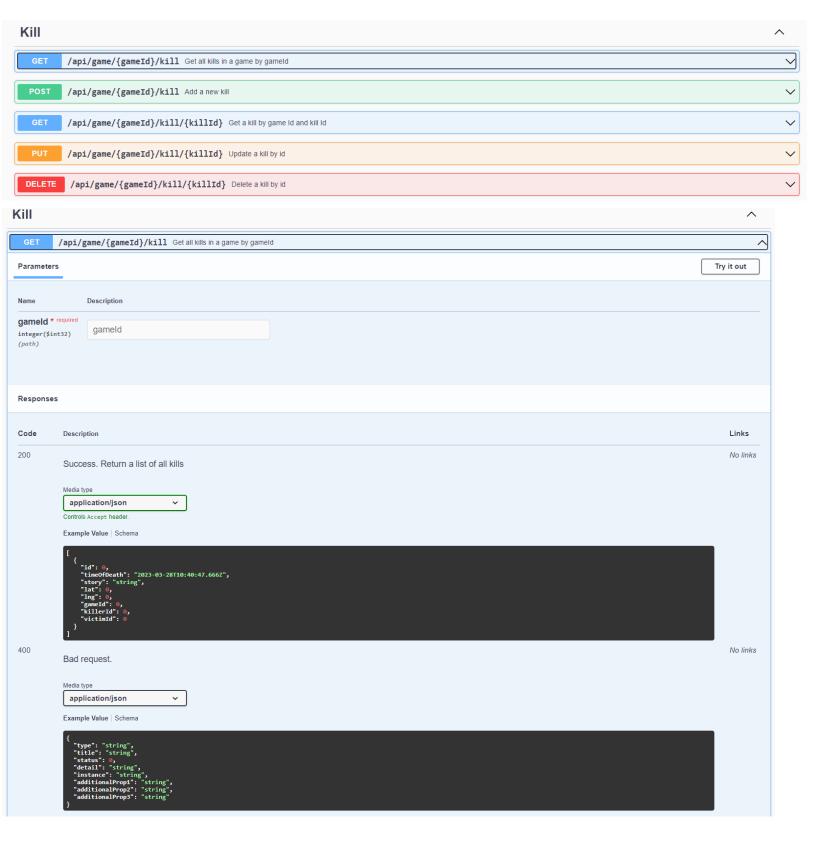


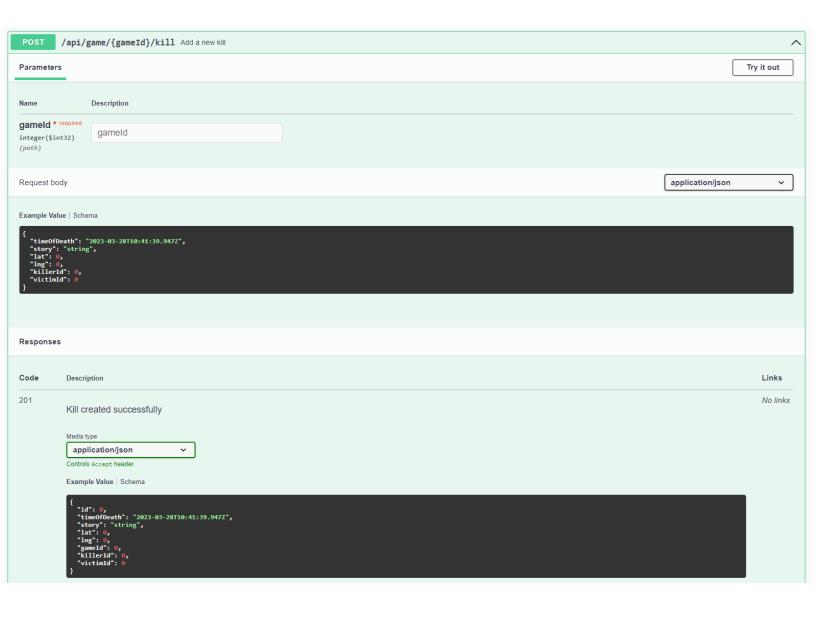
500 Internal error

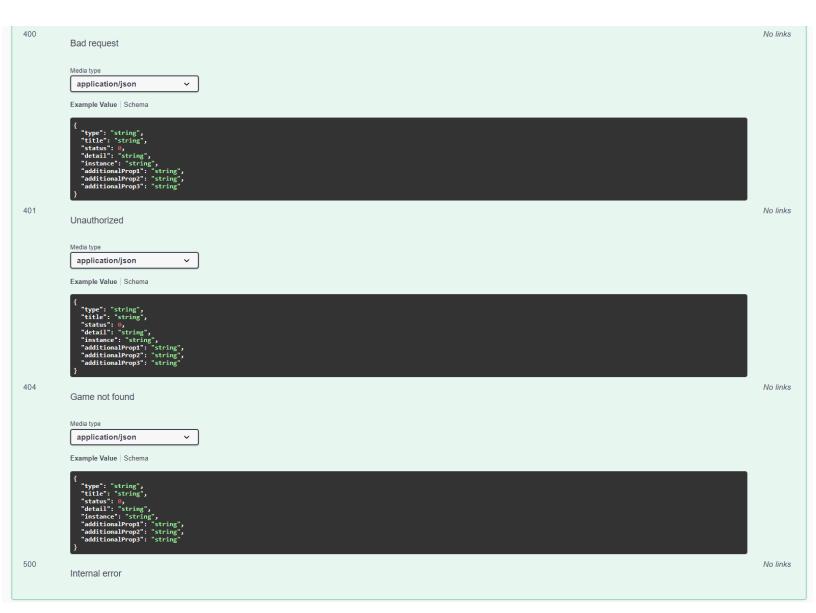
No links

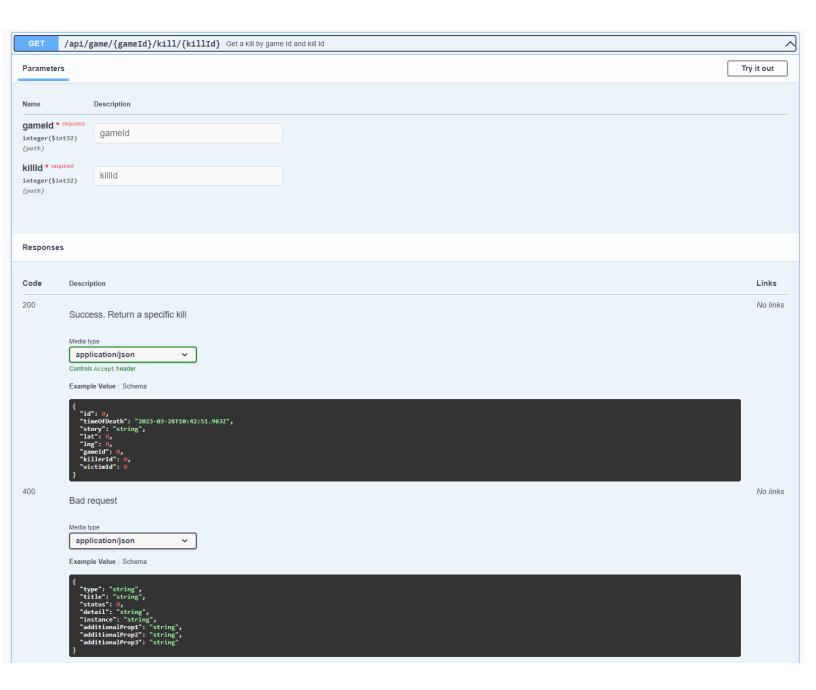


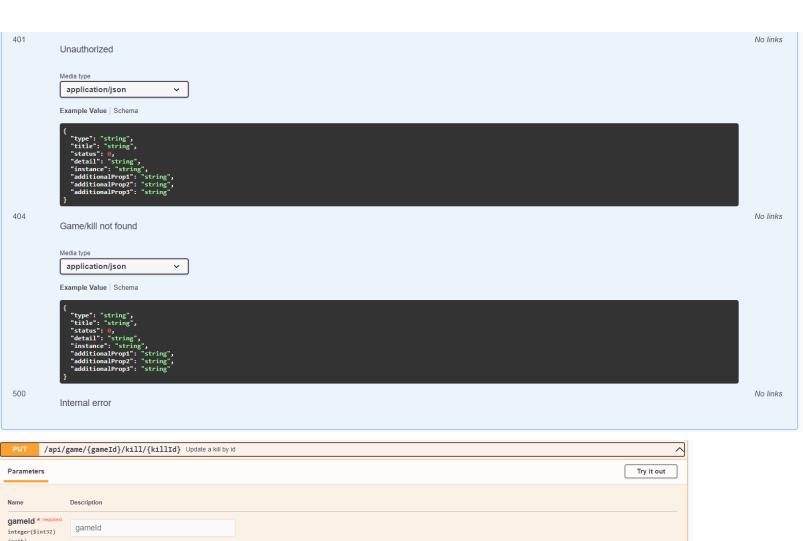
Kill

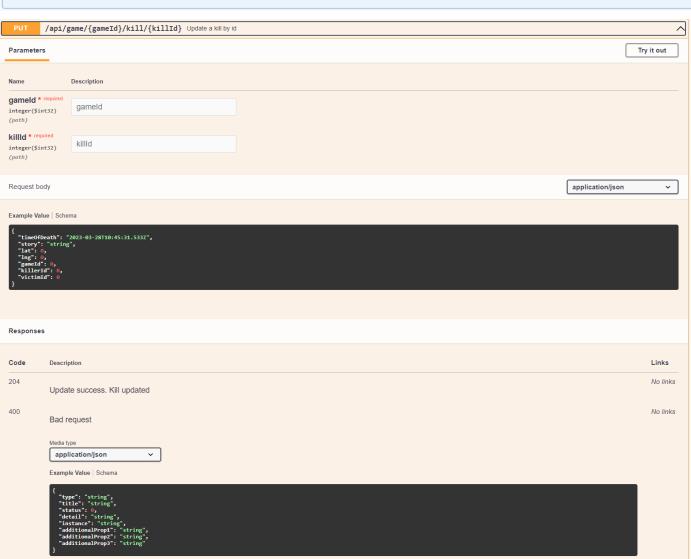


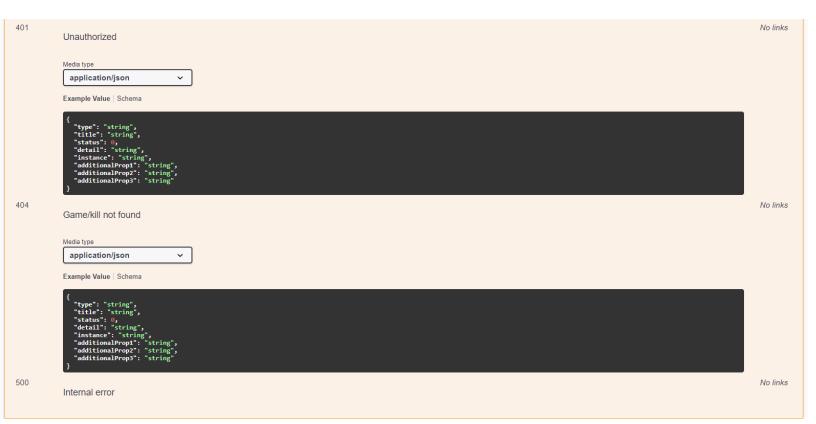


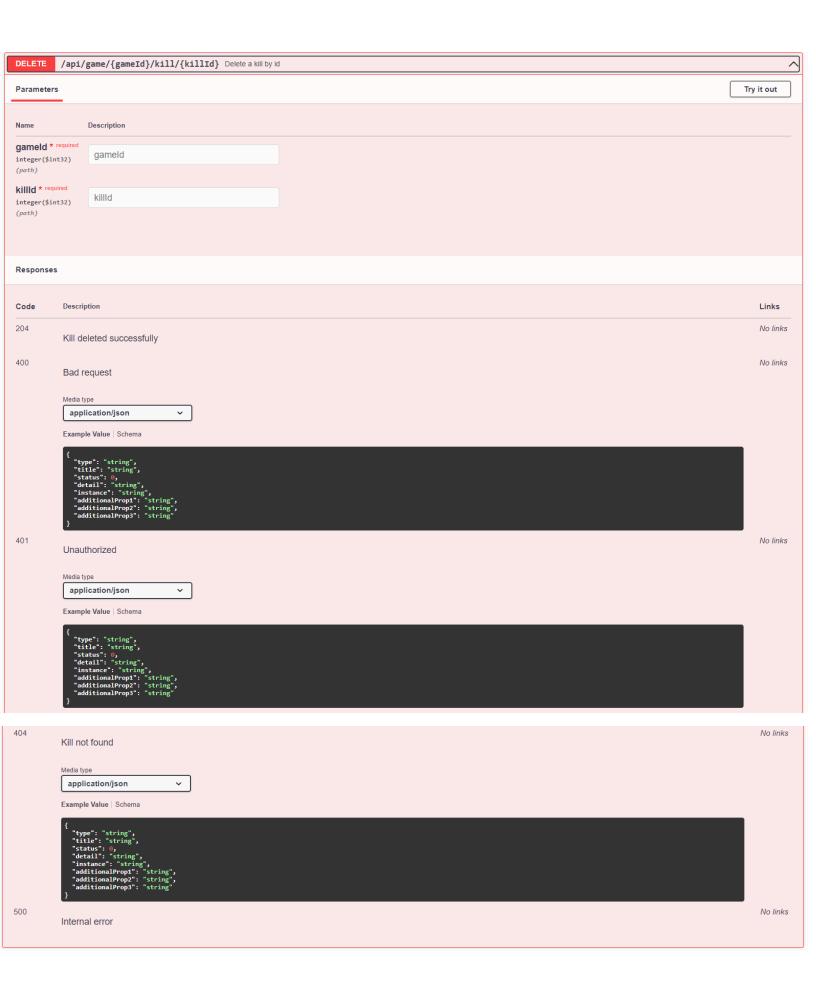




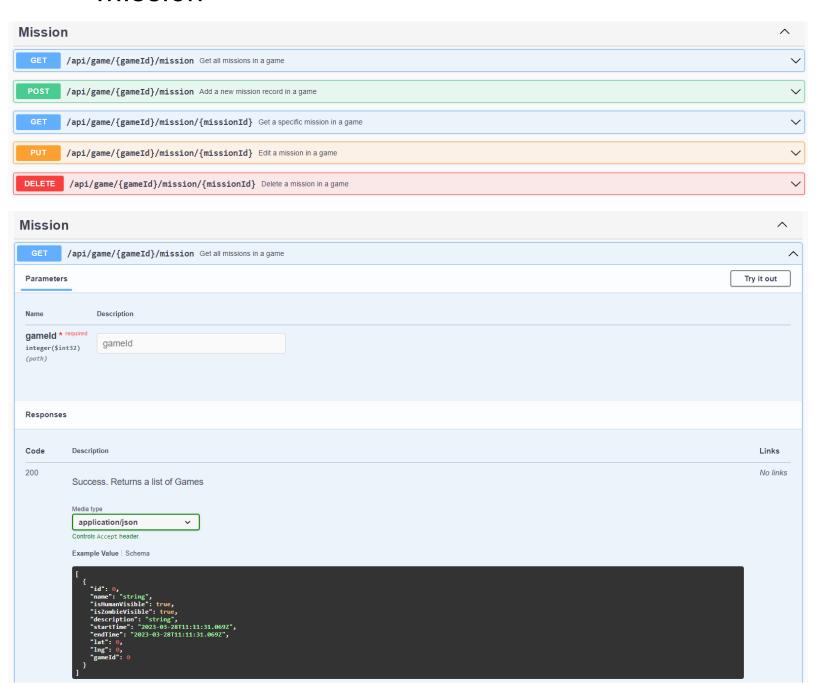


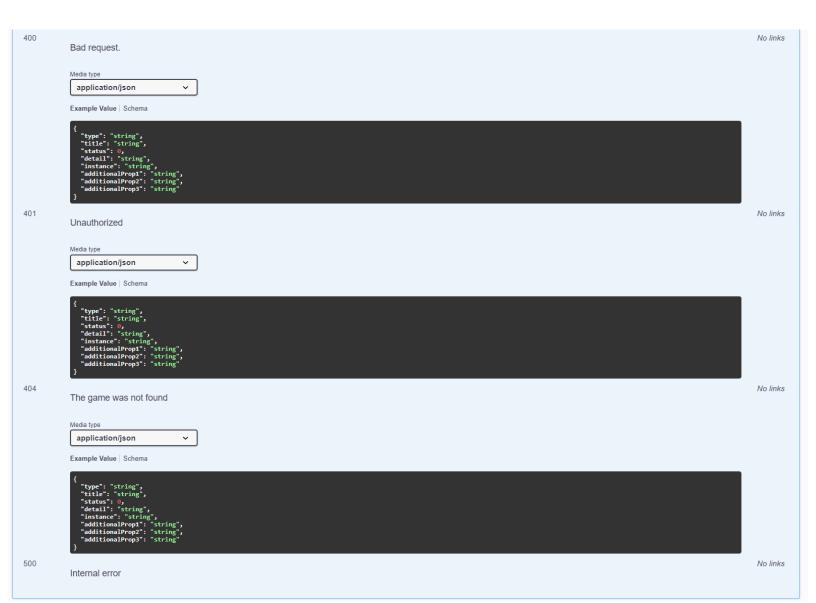


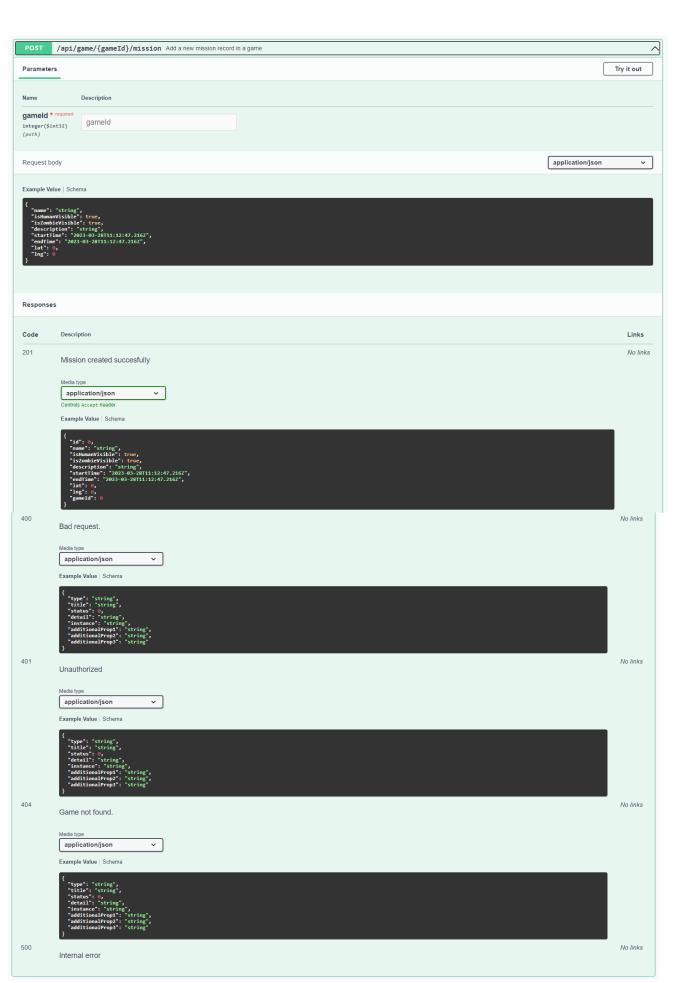


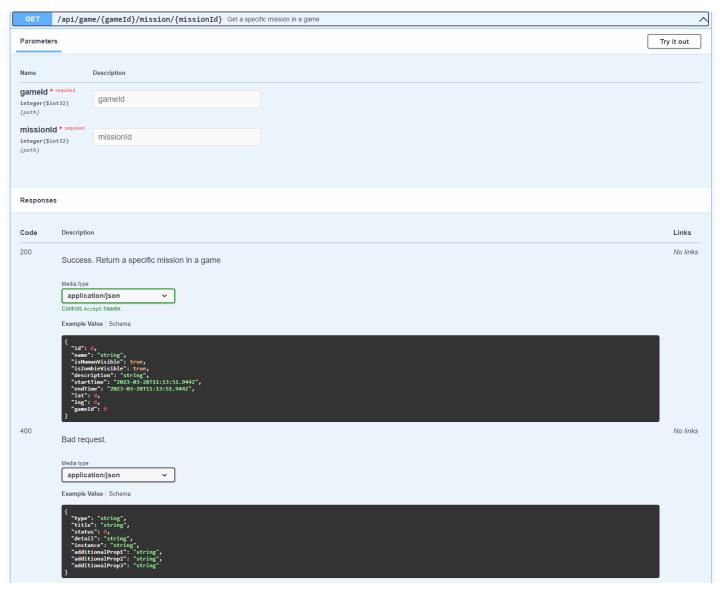


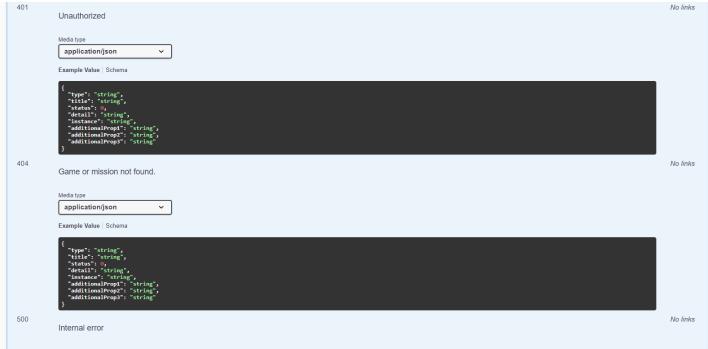
Mission

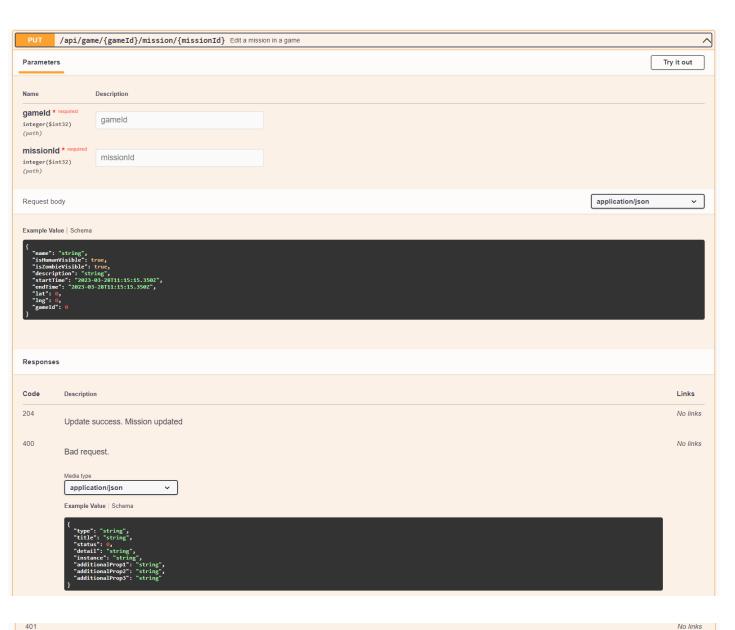




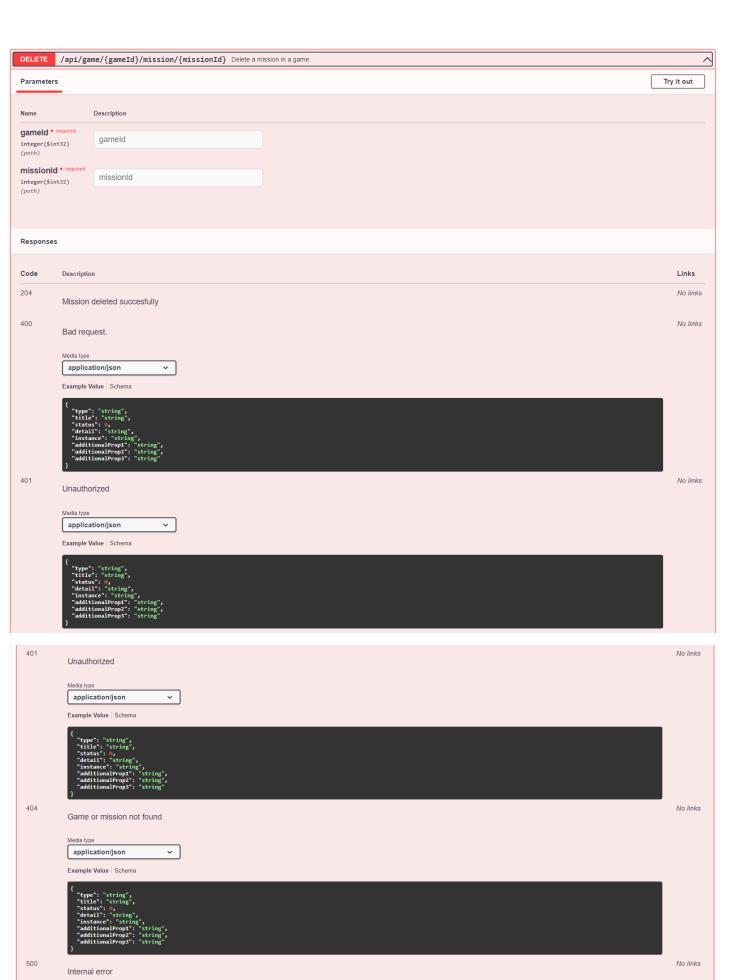




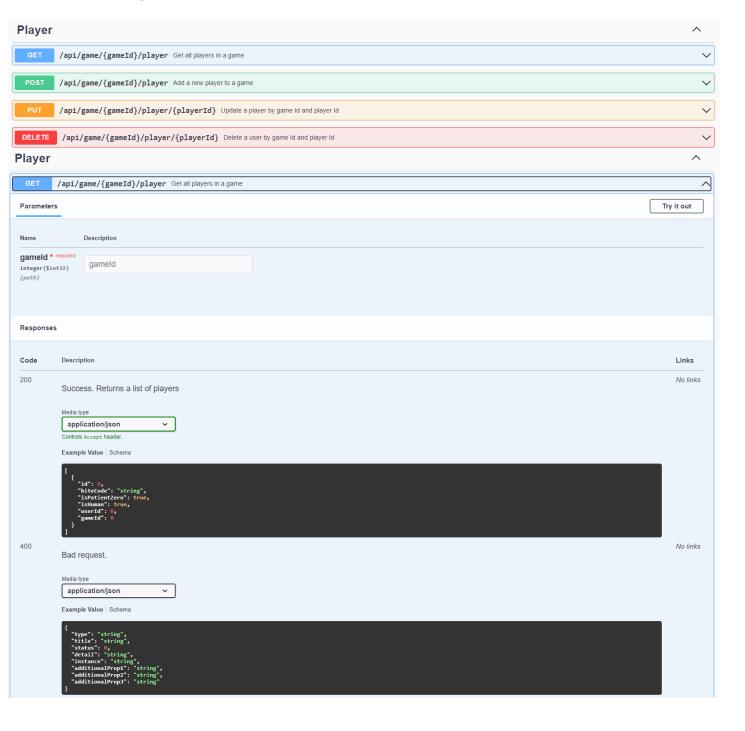


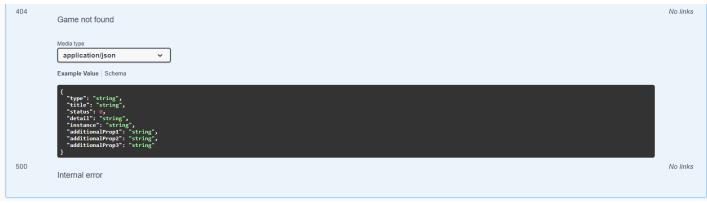


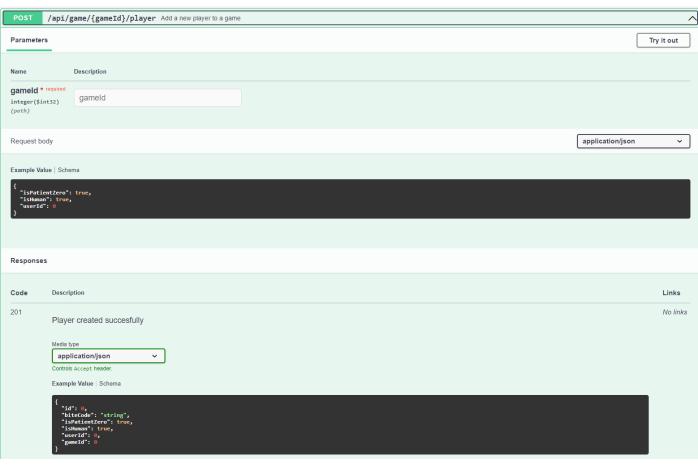


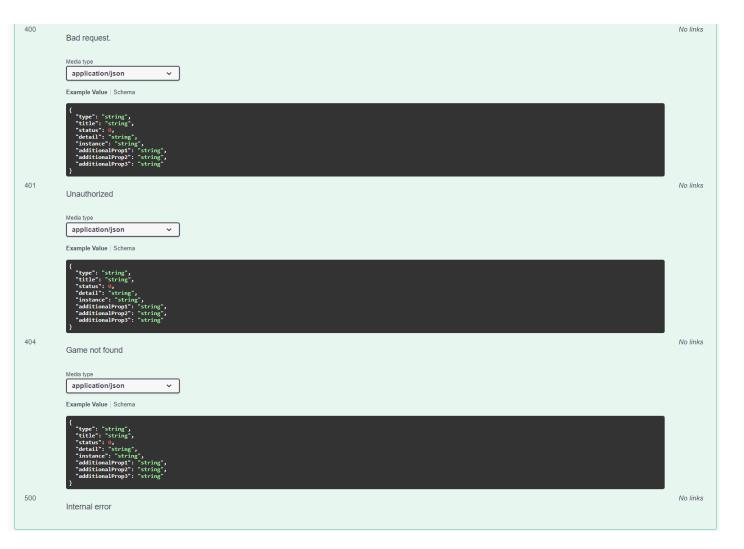


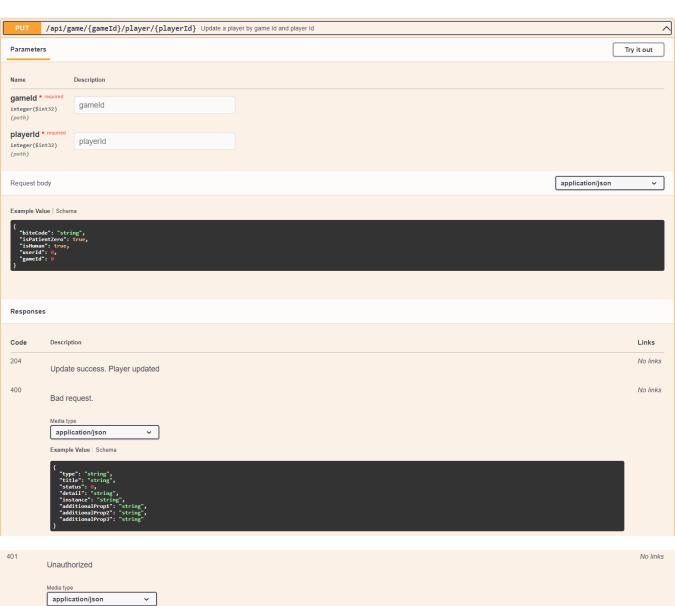
Player

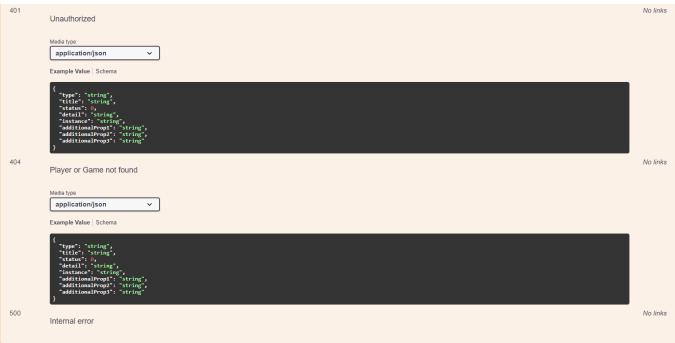


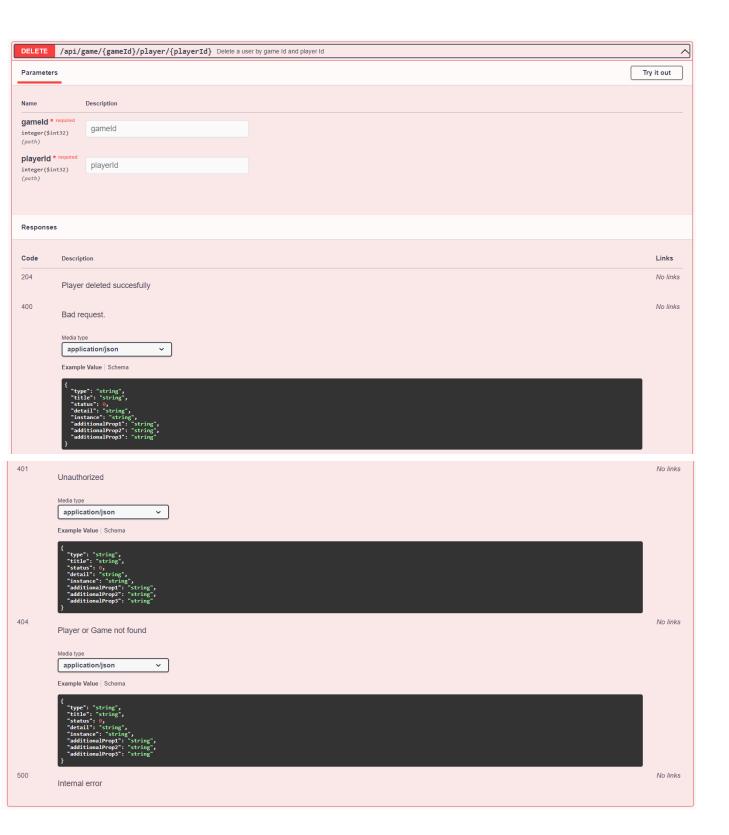




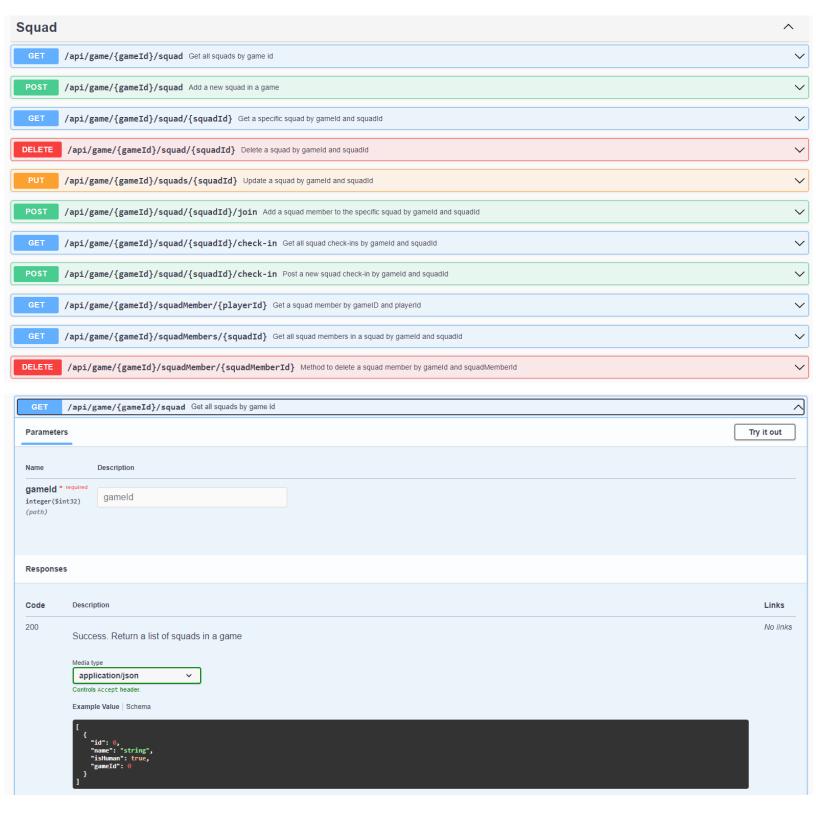


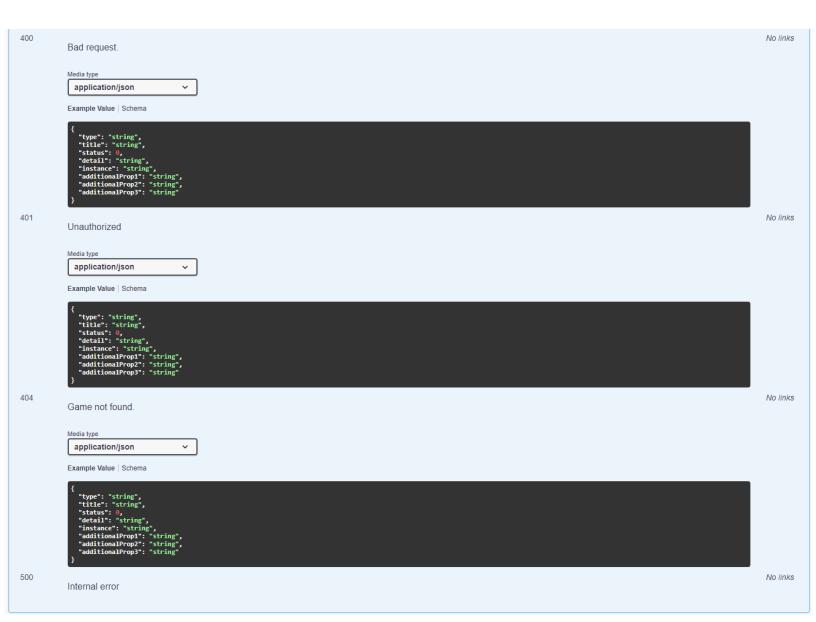


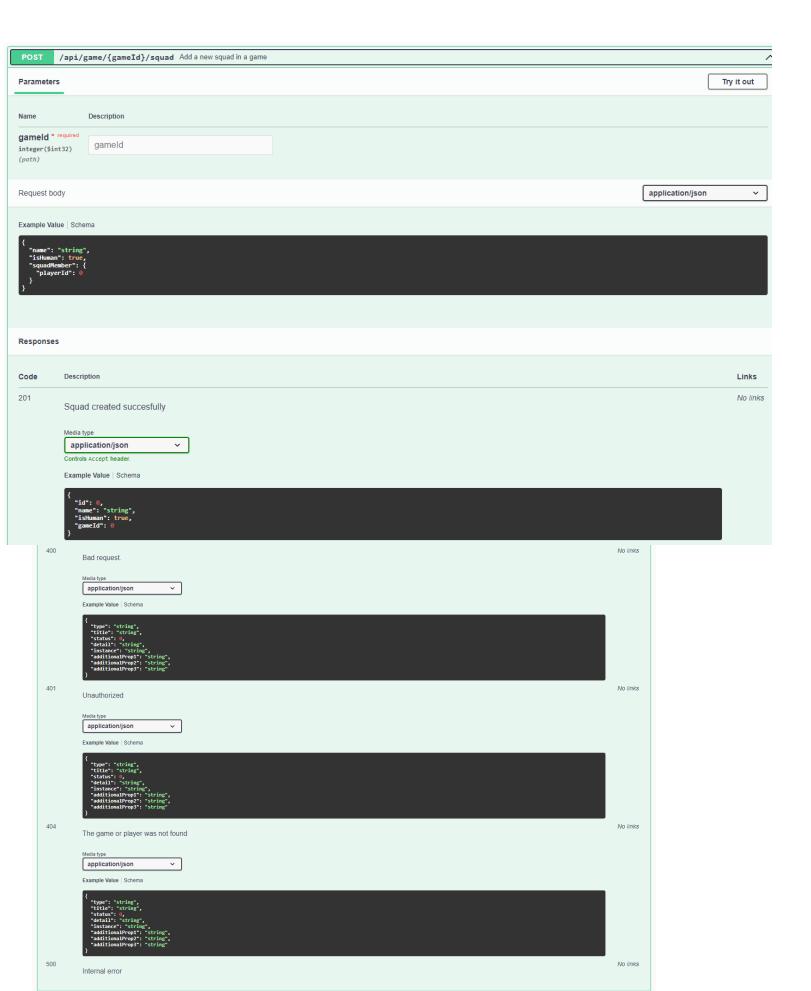


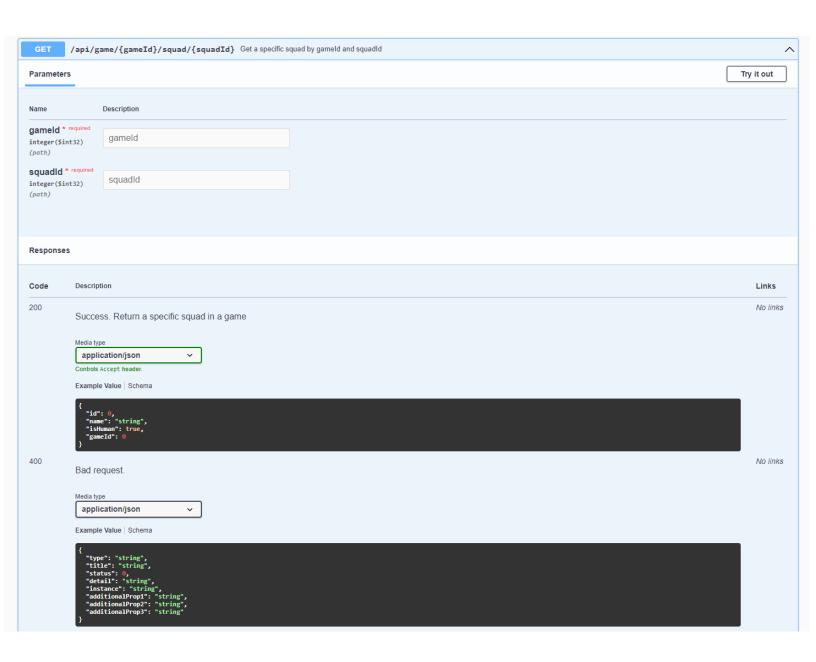


Squad

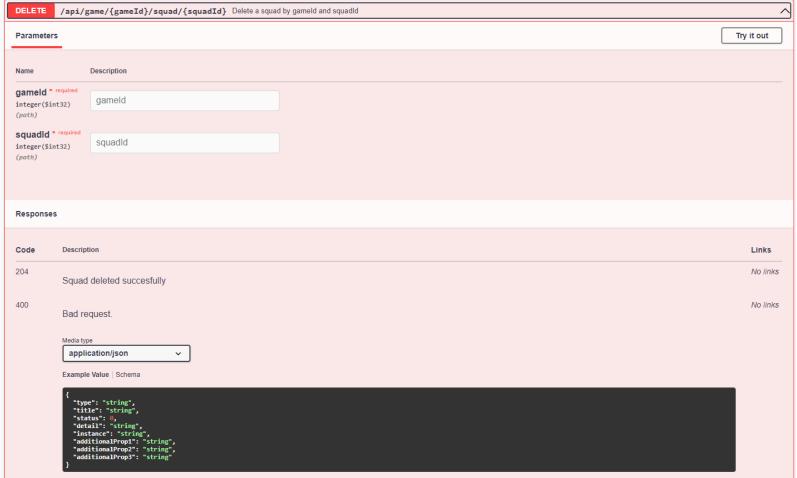


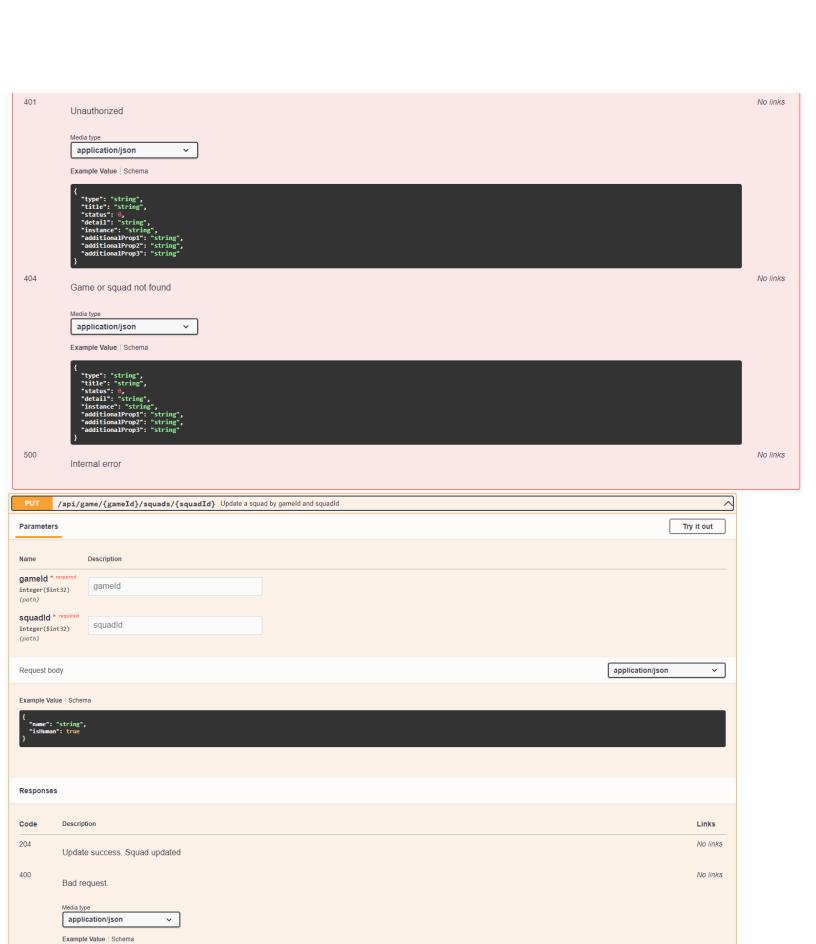




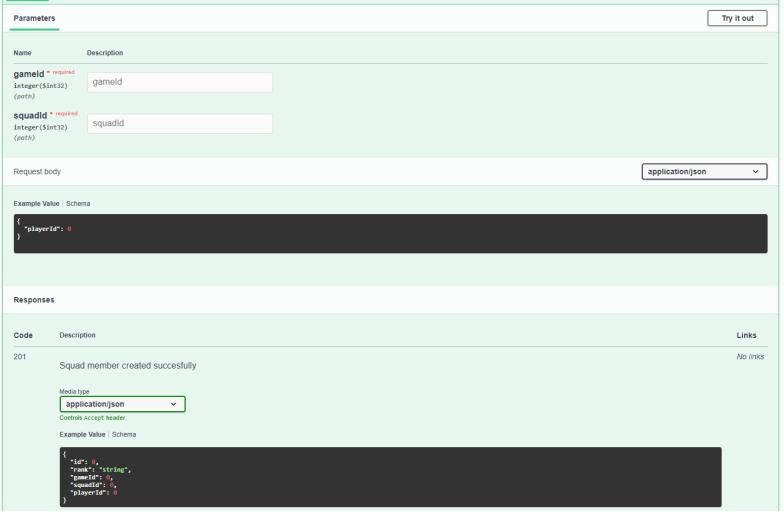


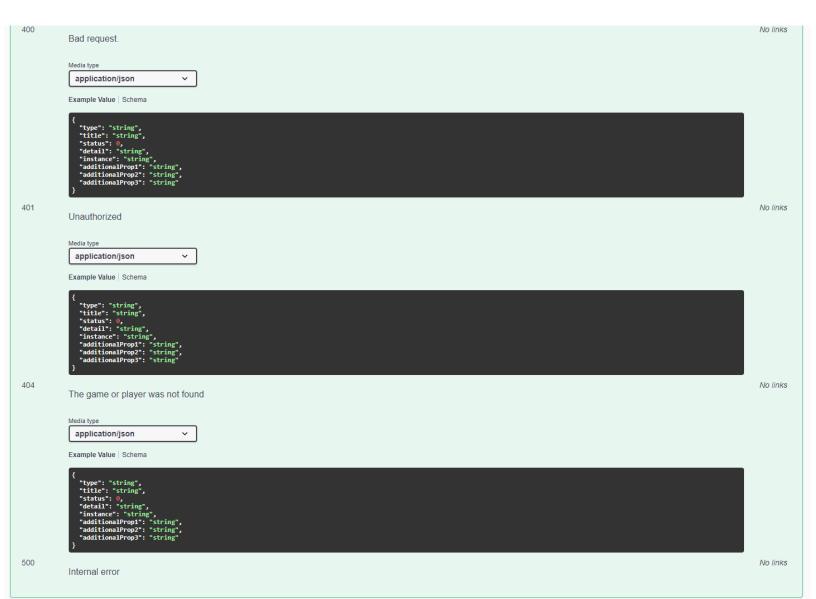


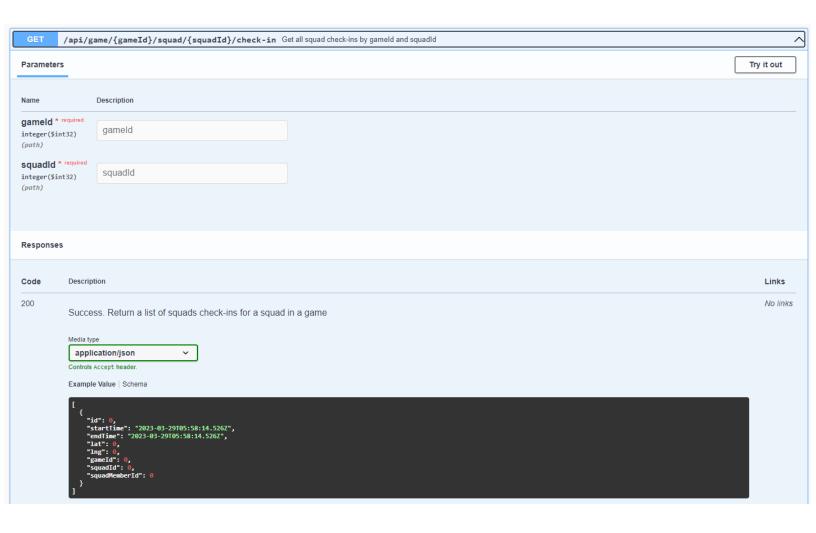


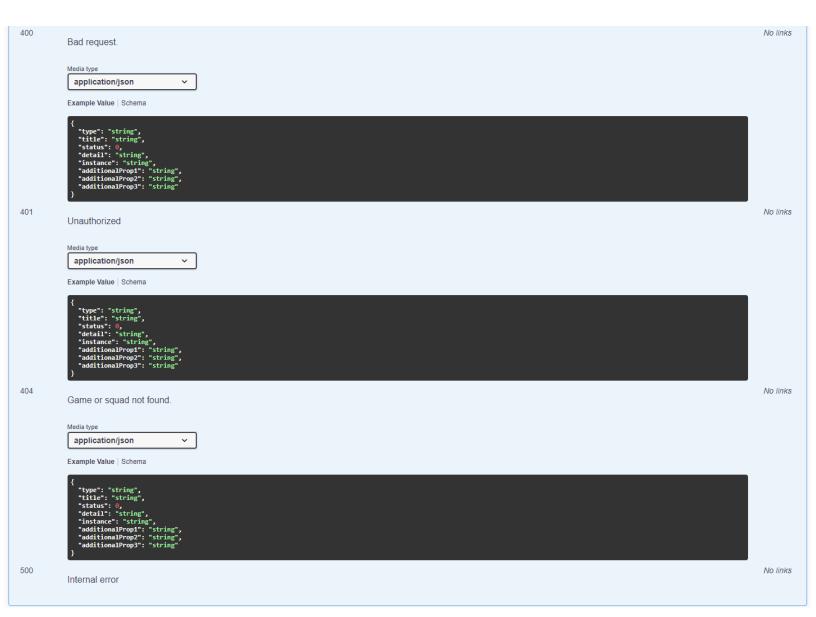


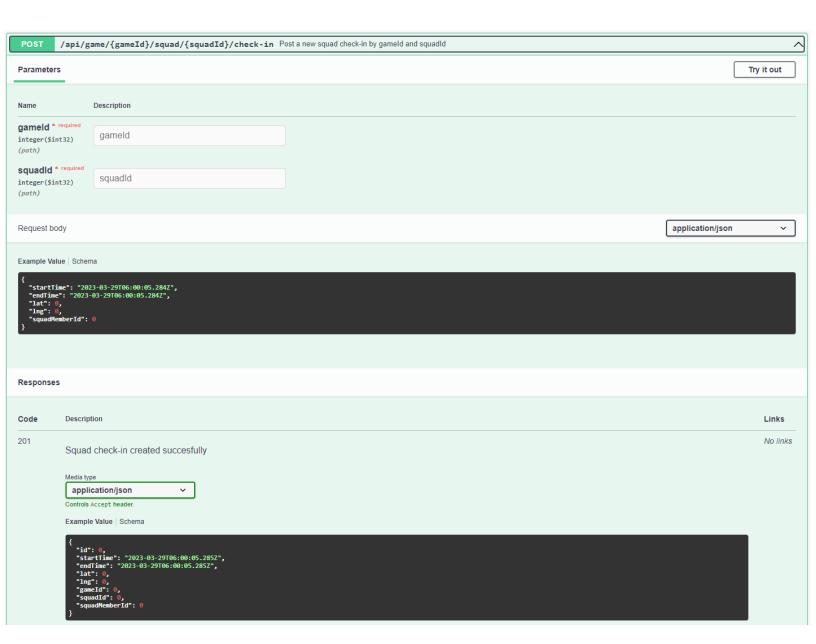


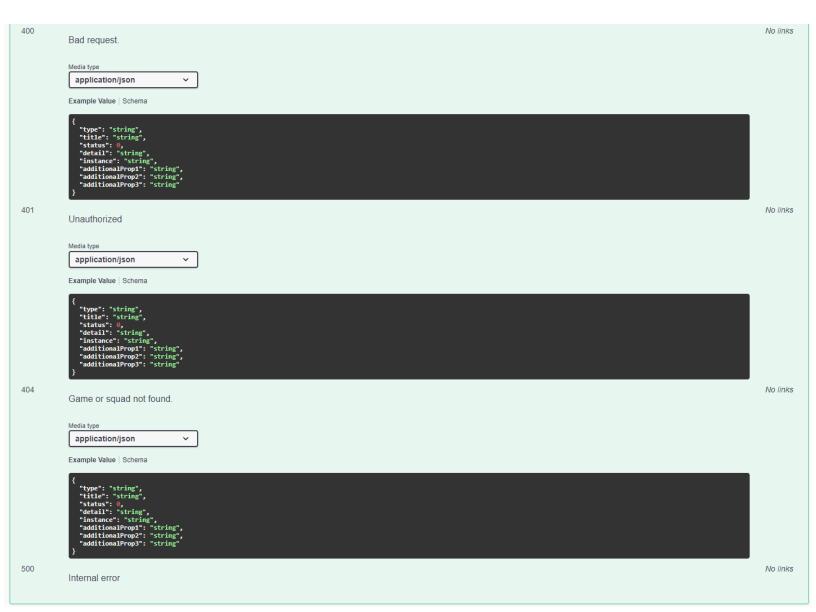


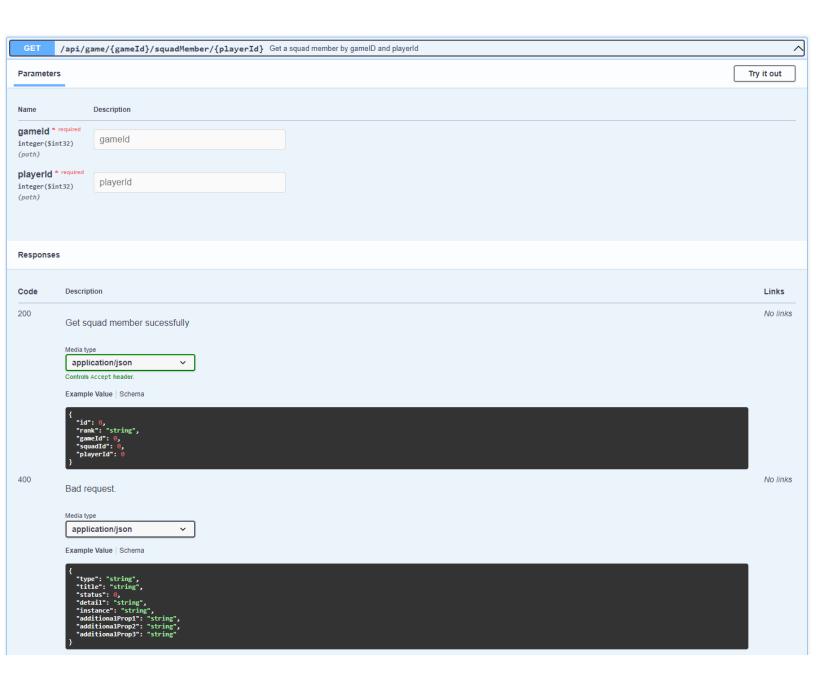


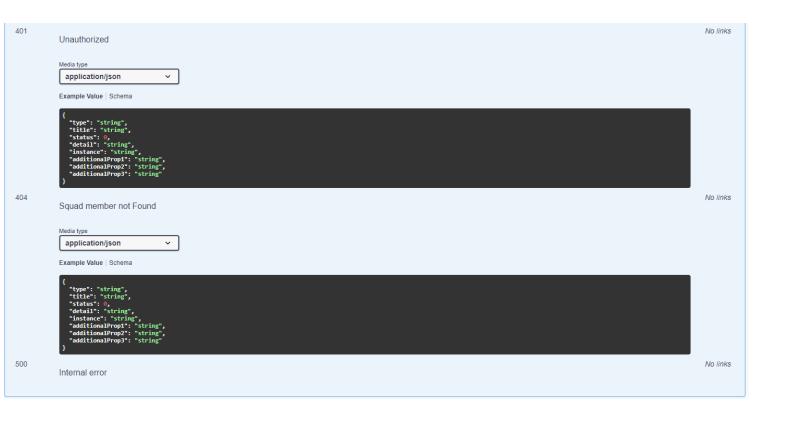


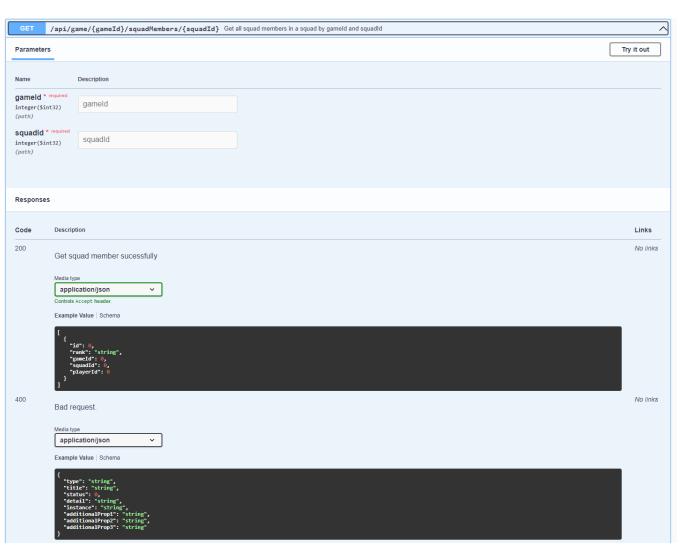


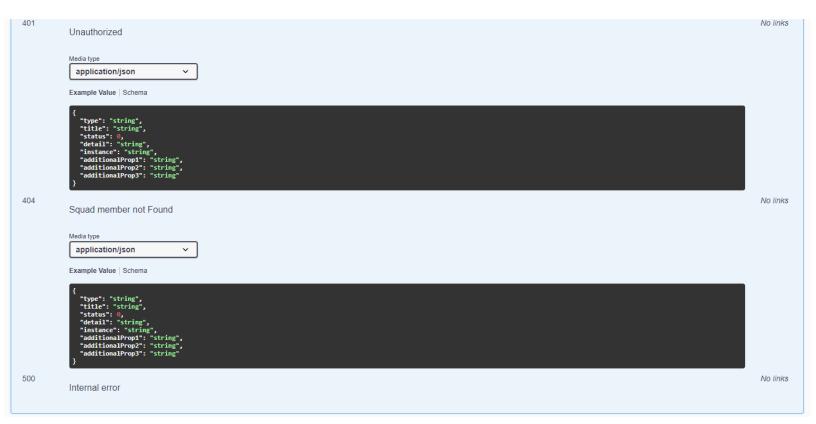


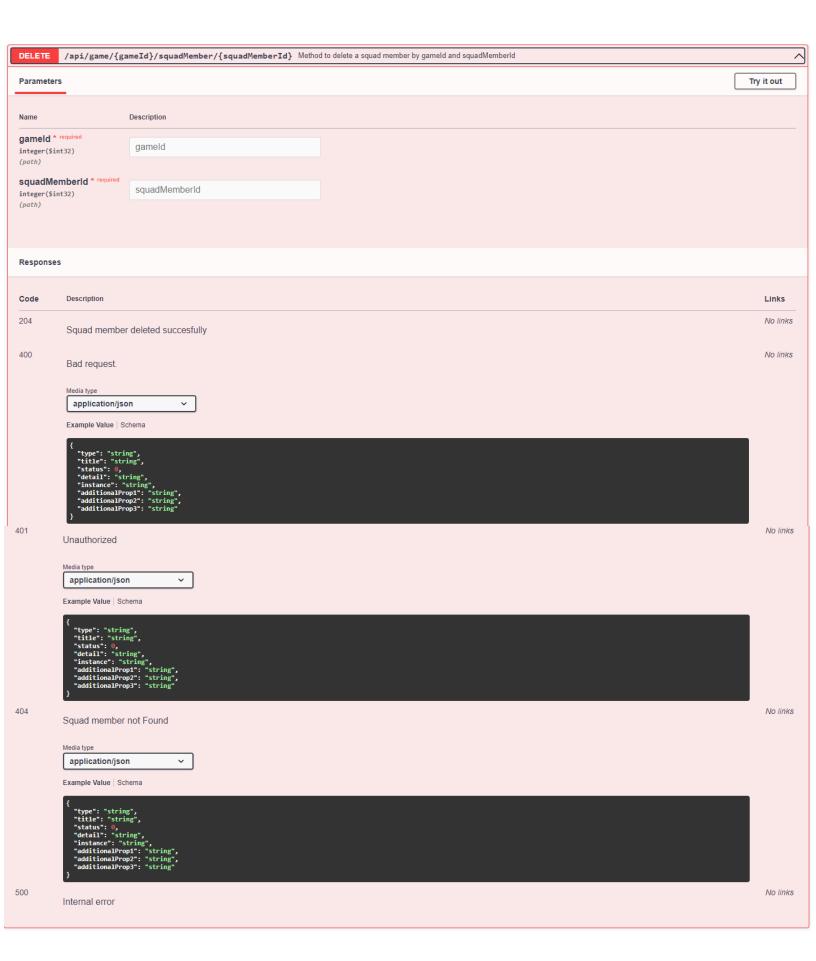












User

