

# Gacha Game Backend API 1.0.0 OAS 3.0

API for managing gacha rolls, user inventories, auctions, transactions, and user authentication.

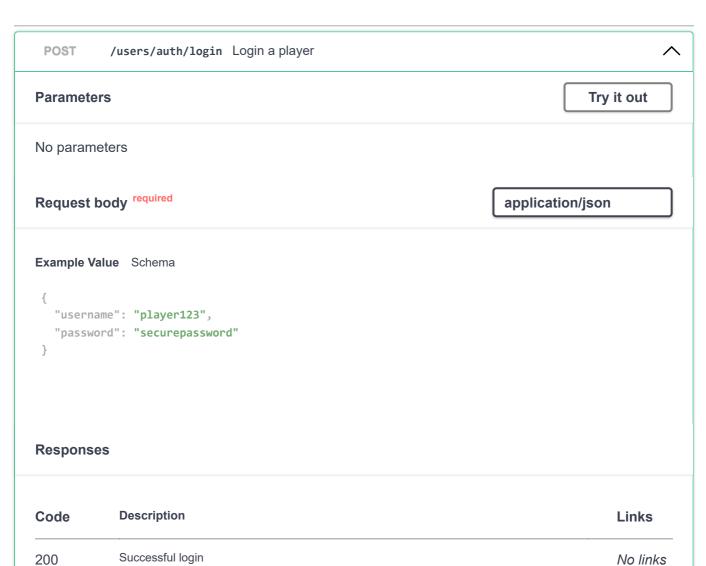
#### **Servers**

http://localhost:8080 - Local development server

Authorize



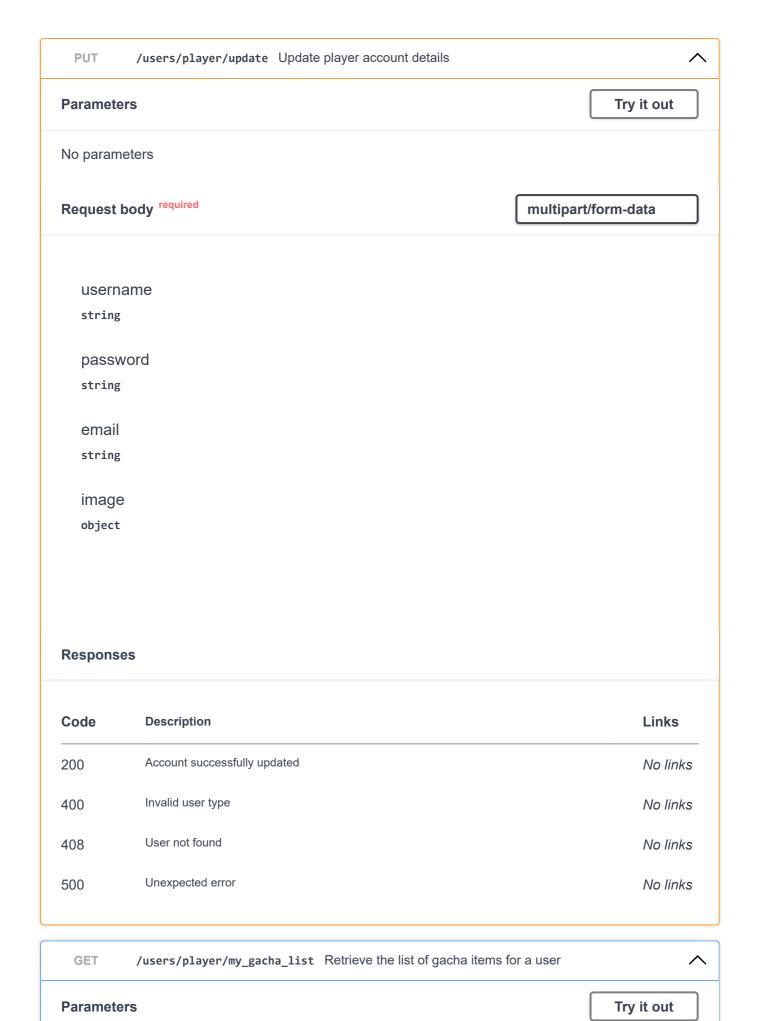
## **PLAYER** Player-specific operations and authentication



Code	Description	Links
401	Invalid credentials	No links
500	Database error	No links
501	Unexpected error	No links
POST	/users/auth/register Register a new player	
Paramete	ers	Try it out
No param	neters	
Request	body required	multipart/form-data
usern string		
301 2116		
passv		
string		
email		
string		
image	<del>)</del>	
object		
Respons	es	
Respons		
Respons Code	es Description	Links
Code		Links No links
	Description	

Code	Description	Links
500	Unexpected error	No links
DELETE	/users/auth/logout Logout a player	/
Paramet	ers	Try it out
No paran	neters	
Respons	ses	
	Description	Links
Code		Links No links
<b>Code</b> 200	Description	
<b>Code</b> 200  401  500	Description Successful logout	No links

DELETE	/users/auth/delete Delete a user account	^
Paramete	ers	Try it out
No paran	neters	
Respons	es	
Code	Description	Links
200	Account deleted successfully	No links
400	Session token is required	No links
408	Session token not found	No links
500	Unexpected error	No links



#### Responses

string

1

**Description** Code Links List of gacha items retrieved successfully 200 No links application/json Controls Accept header. Example Value Schema "gacha\_id": "1", "name": "Auto", "rarity": "epic", "status": "available", "description": "Fast auto", "image": "iVBORwOKGgoAAAANSUhEUgAA...", "locked": "unlocked", "acquired\_date": "2023-10-01T12:00:00Z" 1 No gacha items found for the user 404 No links Media type application/json Example Value Schema "error": "No gacha items found for the user" } /users/player/gacha/{user\_id}/{gacha\_id} **GET** Retrieve information about a specific gacha item for a user Try it out **Parameters** Name **Description** user\_id \* required Example: 1 string (path) gacha\_id \* required Example: 1

```
Name
                    Description
(path)
Responses
            Description
Code
                                                                                  Links
200
            Gacha item information retrieved successfully
                                                                                  No links
            Media type
             application/json
            Controls Accept header.
            Example Value Schema
              "gacha_id": "1",
              "name": "Auto",
              "rarity": "epic",
              "status": "available",
              "description": "Fast auto",
              "image": "iVBORwOKGgoAAAANSUhEUgAA..."
           User not found or gacha item not found
404
                                                                                  No links
 POST
          Parameters
                                                                              Try it out
No parameters
Request body required
                                                                  application/json
Example Value Schema
  "amount": 100
Responses
```

Code	Description	Links
200	Account topped up successfully	No links
400	Missing amount for transaction or invalid amount	No links
GET	/users/player/get_user_balance Retrieve the balance of a user	^
Paramet	ers	Try it out

### Responses

Code	Description	Links
200	User balance retrieved successfully	No links
	Media type	
	application/json	
	Controls Accept header.	
	Example Value Schema	
	{     "currency_balance": <b>1500</b> }	
400	Invalid user type	No links
408	User not found	No links
500	Unexpected error	No links

/users/player/get\_user Get user information GET





Retrieve information for the authenticated user. Only users with the 'PLAYER' type can access this endpoint.

**Parameters** 

Try it out

### Responses

Code	Description	Links
200	User information retrieved successfully.	No links
	Media type	
	application/json	
	Controls Accept header.	
	Example Value Schema	
	<pre>{   "user_id": 0,   "username": "string",   "email": "string",   "currency_balance": 0,   "image": {},   "session_token": "string" }</pre>	
404	User not found	No links
500	Unexpected error	No links
GET	/users/player/get_user/{user_id} Get user information by ID (Admin only)	<u></u>

Retrieve user information by ID. This endpoint is restricted to admin users and is hidden from the API documentation.

#### **Parameters**

Try it out

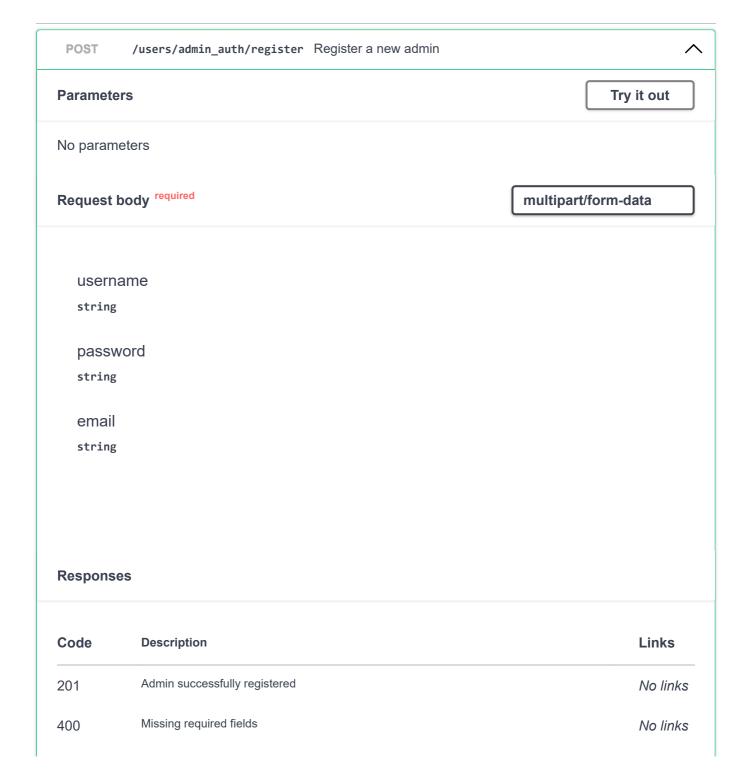
Name	Description
user_id * required	The ID of the user to retrieve.
integer	user_id
(path)	

#### Responses

```
Description
Code
                                                                                                     Links
              User information retrieved successfully.
200
                                                                                                     No links
                application/json
               Controls Accept header.
              Example Value Schema
                 "user_id": 0,
                 "username": "string",
                 "email": "string",
                 "currency_balance": 0,
                 "image": {},
                 "session_token": "string"
              User not found
404
                                                                                                     No links
              Unexpected error
500
                                                                                                     No links
             \label{lem:continuous} \mbox{\tt /users/player/update\_balance/\{user\_type\}} \quad \mbox{\tt Update the balance of a user}
  PUT
                                                                                                Try it out
Parameters
Name
                          Description
user_type * required
                          Available values: PLAYER, ADMIN
                          Example: PLAYER
string
                           PLAYER
(path)
Request body required
                                                                                  application/json
Example Value Schema
   "user_id": "1",
   "amount": "100",
   "type": "credit"
Responses
```

Code	Description	Links
200	Balance updated successfully	No links
400	Missing data to update balance	No links
404	User not found	No links
500	Unexpected error	No links

## **ADMIN** Administrative functions and authentication



Code	Description	Links
409	Username or email already exists	No links
500	Unexpected error	No links
POST	/users/admin_auth/login Login an admin and retrieve a JWT token	^
Paramet	ers	Try it out

Request body required

application/json

#### Example Value Schema

```
{
  "username": "admin123",
  "password": "securepassword"
}
```

#### Responses

Code	Description	Links
200	Successful login and returns a JWT token	No links
	Media type	

### application/json

Controls Accept header.

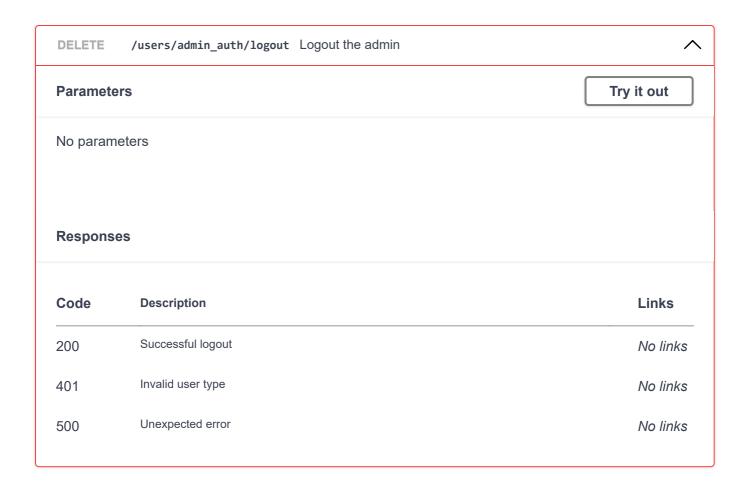
#### Example Value Schema

```
{
  "token": "jwt_token",
  "message": "Login successful",
  "user_id": "1"
}
```

400	Invalid user type	No links

401 Invalid credentials No links

500 Database error No links



## **TRANSACTION**

Handles in-game currency transactions for players and administrators

Parameters

Try it out

No parameters

Request body required

Example Value Schema

{
 "user\_id": "1",
 "amount": 100,
 "type": "credit"
}

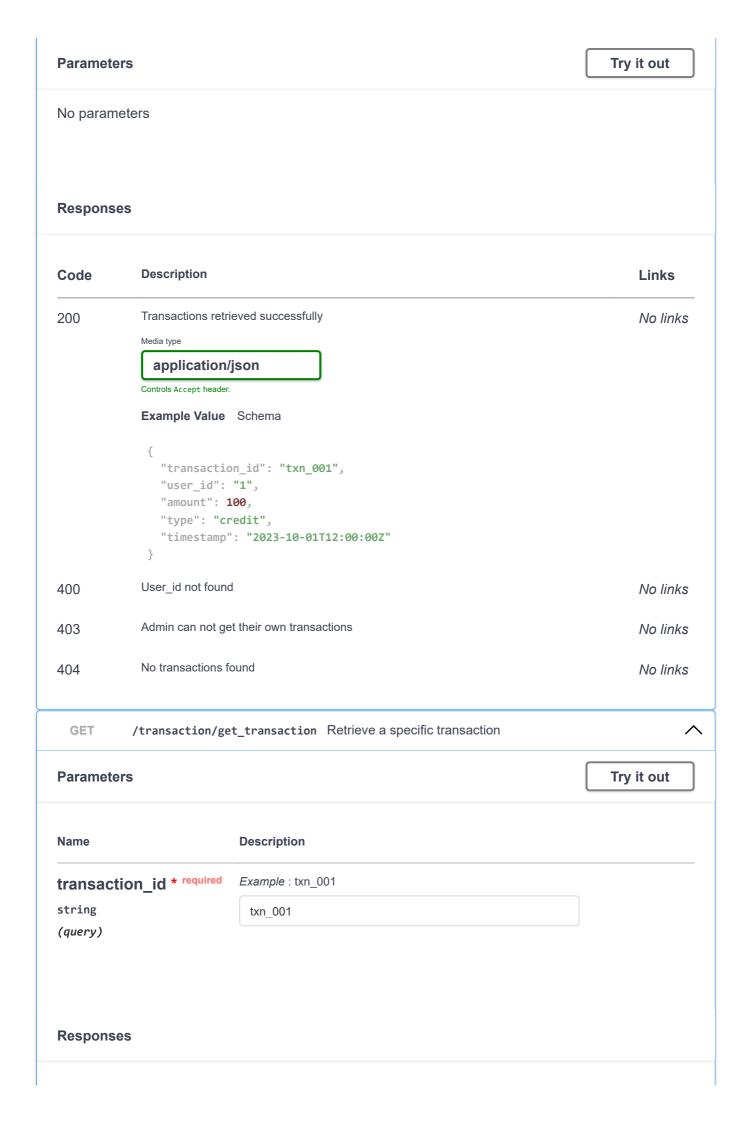
Responses

**Description** Links Code Transaction added successfully 200 No links Failed to add transaction 500 No links **GET** /transaction/get\_user\_transactions/{user\_id}
Retrieve all transactions for a user Try it out **Parameters** Name **Description** user\_id \* required Example: 1 string 1 (path) Responses Code **Description** Links Transactions retrieved successfully 200 No links Media type application/json Controls Accept header. Example Value Schema "transaction\_id": "txn\_001", "user\_id": "1", "amount": 100, "type": "credit", "timestamp": "2023-10-01T12:00:00Z" } ] User\_id not found 400 No links

No links

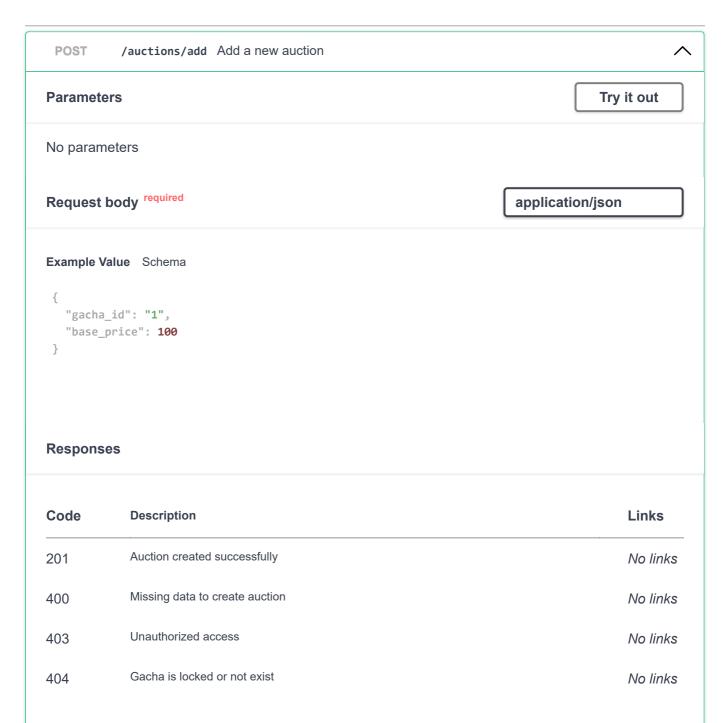
404

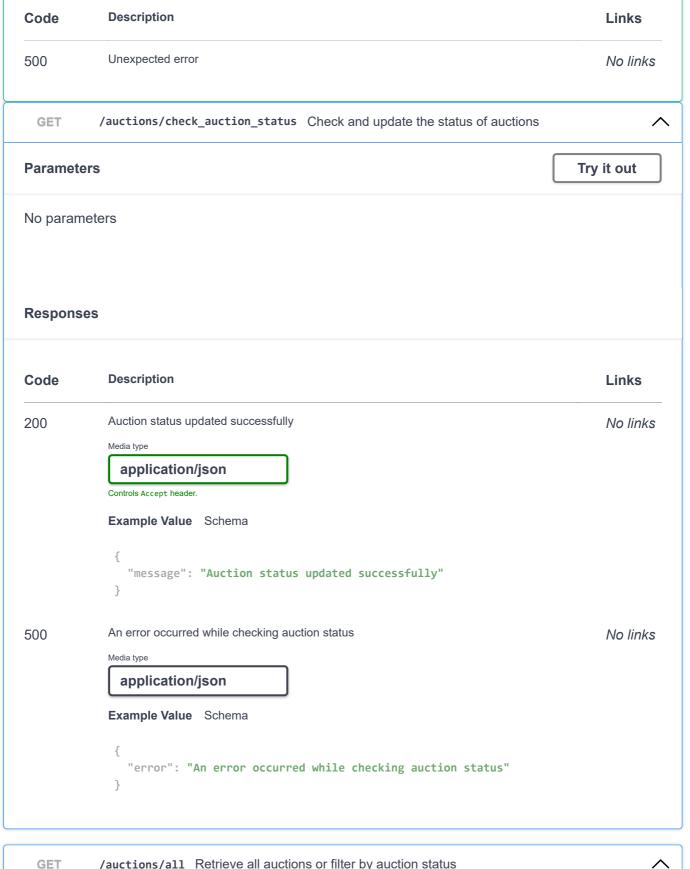
No transactions found



```
Description
                                                                                                Links
Code
             Transaction retrieved successfully
200
                                                                                                No links
               application/json
              Controls Accept header.
              Example Value Schema
                 "transaction_id": "txn_001",
                 "user_id": "1",
                 "amount": 100,
                 "type": "credit",
                 "timestamp": "2023-10-01T12:00:00Z"
             Transaction not found
404
                                                                                                No links
  GET
            /transaction/all Retrieve all transactions
Retrieve all transactions from the database.
                                                                                            Try it out
Parameters
           Description
Name
           Example: 1
user_id
string
             1
(query)
Responses
Code
             Description
                                                                                                Links
             A JSON array of all transactions
200
                                                                                                No links
             Media type
                application/json
              Controls Accept header.
              Example Value Schema
```

## **AUCTIONS** Handles the creation and management of auctions and bids





/auctions/all Retrieve all auctions or filter by auction status

This endpoint retrieves all auctions from the database. Optionally, it can filter the auctions based on their status (active or expired) using a query parameter.

**Parameters** 

Try it out

Name	Description	
status string (query)	The status of the auctions to filter by. Can be "active" or "expired".  Available values: active, expired, completed	
Respons	es	
Code	Description	Links
200	A JSON response containing a list of auctions.  Media type  application/json  Controls Accord bander.	No links
	Controls Accept header.  Example Value Schema  {     "auctions": [         {             "additionalProp1": {}         } }	
500	Unexpected error occurred	No links
GET	/auctions/all_active Retrieve all auctions or filter by auction status	^
Paramete	ers	Try it out
No param	neters	
Respons	es	
Code	Description	Links
200	A JSON response containing a list of auctions.  Media type  application/json	No links

```
Code
              Description
                                                                                                 Links
              Controls Accept header.
              Example Value Schema
                 "auctions": [
                   {
                     "additionalProp1": {}
               }
              Unexpected error occurred
500
                                                                                                 No links
  GET
            /auctions/get_gacha_auctions Retrieve gacha auctions based on gacha_id
This endpoint handles GET requests to fetch auctions associated with a specific gacha_id.
Parameters
                                                                                             Try it out
Name
                        Description
gacha_id * required
                        The ID of the gacha to retrieve auctions for.
string
                         gacha_id
(query)
Responses
Code
              Description
                                                                                                 Links
              A JSON response containing the list of auctions.
200
                                                                                                 No links
              Media type
                application/json
              Controls Accept header.
              Example Value Schema
               "additionalProp1": {}
               ]
```

Code	Description	Links
400	Missing gacha_id parameter	No links
404	No auctions found for the gacha	No links
500	Database error occurred	No links

POST /auctions/bid Place a bid on an auction



This endpoint allows a user to place a bid on an auction.

#### **Parameters**

Try it out

No parameters

Request body required

application/json

#### Example Value Schema

```
{
    "auction_id": "string",
    "bid_amount": 0
}
```

### Responses

Code	Description	Links
200	Bid placed successfully	No links
	Media type	
	application/json	

Example Value Schema

Controls Accept header.

```
{
   "message": "string"
}
```

400 Missing data for bid

No links

Code	Description	Links
403	You can't place a bid as an admin	No links
408	Auction not found or already ended	No links
409	Failed to place bid	No links
500	Database error occurred	No links

GET /auctions/bids Retrieve bids for a specific auction

^

This endpoint handles GET requests to retrieve bids for a specific auction.

#### **Parameters**

Try it out

Name Description

auction\_id \* required The ID of the auction to retrieve bids for.

string auction\_id (query)

#### Responses

Code	Description	Links
200	A JSON response containing the list of bids.	No links

Media type

#### application/json

Controls Accept header.

#### Example Value Schema

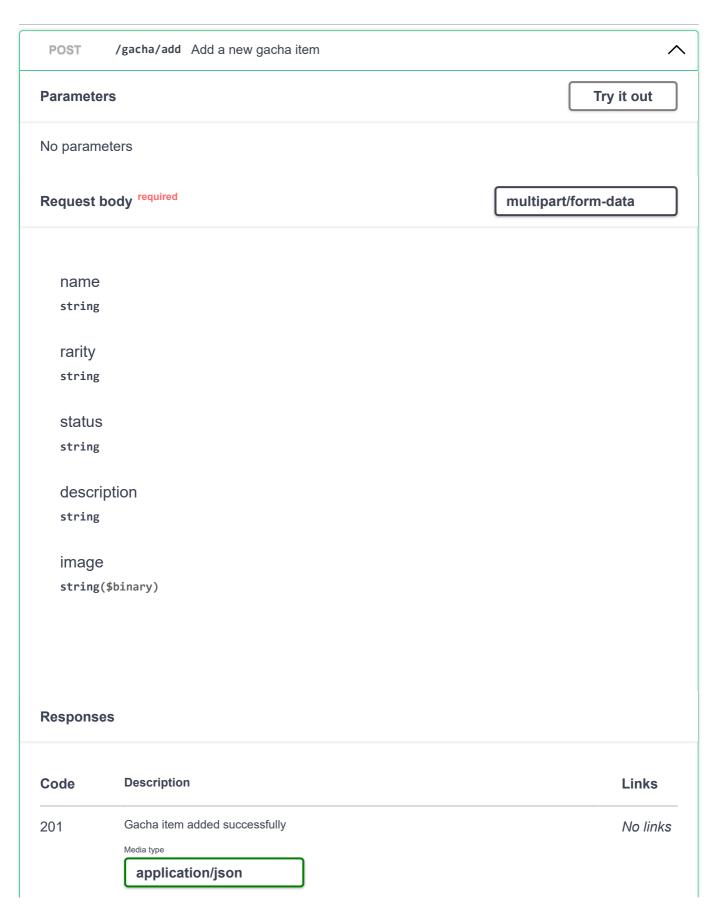
```
{
    "bids": [
          {
                "additionalProp1": {}
          }
          ]
}
```

400 Missing auction\_id parameter

No links

Code	Description	Links
500	Database error occurred	No links

## GACHA Handles gacha items and inventory management



Code **Description** Links Controls Accept header. Example Value Schema "message": "string" Missing data to add gacha item 400 No links 500 Database error No links /gacha/roll Perform a gacha roll for a random item **POST Parameters** Try it out No parameters Responses Code **Description** Links Gacha roll successful 200 No links Media type application/json Controls Accept header. Example Value Schema "message": "string", "gacha\_id": "string", "name": "string", "rarity": "string" Missing data for gacha roll 400 No links Insufficient funds for gacha roll 403 No links Failed to add gacha item to user inventory 500 No links

**GET** 

```
Parameters
                                                                                           Try it out
                     Description
Name
user_id * required
                       user_id
string
(path)
Responses
Code
             Description
                                                                                               Links
             User inventory retrieved successfully
200
                                                                                               No links
             Media type
               application/json
             Controls Accept header.
             Example Value Schema
                 "inventory": [
                     "gacha_id": "string",
                     "name": "string",
                     "rarity": "string",
                     "status": "string",
                     "description": "string",
                     "acquired_date": "string",
                     "locked": true,
                     "image": "string"
                   }
                 ]
              }
             No gacha items found for user
404
                                                                                               No links
            /gacha/inventory/add Add a gacha item to a user's inventory
                                                                                           Try it out
Parameters
No parameters
Request body required
                                                                             application/json
```

```
Example Value Schema
   "gacha_id": "string"
Responses
Code
              Description
                                                                                                 Links
              Gacha item successfully added to user's inventory
                                                                                                 No links
201
              Media type
               application/json
              Controls Accept header.
              Example Value Schema
                 "message": "string"
400
              Missing data to add gacha to inventory
                                                                                                 No links
              User or gacha item not found
404
                                                                                                 No links
            /gacha/all Retrieve all gacha items
  GET
                                                                                            Try it out
Parameters
Name
           Description
offset
           The number of items to skip
integer
             offset
(query)
Responses
```

Description Links Code Gacha items retrieved successfully 200 No links application/json Controls Accept header. Example Value Schema "message": [ "gacha\_id": "string", "name": "string", "rarity": "string", "status": "string", "description": "string", "image": "string" } No gacha items found 404 No links PUT /gacha/update Update a gacha item Try it out **Parameters** No parameters Request body required multipart/form-data gacha\_id string name string rarity string status string description

```
string
   image
   string($binary)
Responses
Code
             Description
                                                                                                Links
              Gacha item updated successfully
200
                                                                                                No links
             Media type
                application/json
             Controls Accept header.
              Example Value Schema
                 "message": "string"
             Missing data to update gacha item
400
                                                                                                No links
             Gacha item not found
404
                                                                                                No links
500
             Failed to update gacha item
                                                                                                No links
            /gacha/get/{gacha_id} Retrieve information about a specific gacha item
                                                                                           Try it out
Parameters
                       Description
Name
gacha_id * required
                         gacha_id
string
(path)
Responses
```

**Description** Links Code Gacha item retrieved successfully 200 No links application/json Controls Accept header. Example Value Schema "gacha\_id": "string", "name": "string", "rarity": "string", "status": "string", "description": "string", "image": "string" Gacha item not found 404 No links /gacha/get/{user\_id}/{gacha\_id} **GET** Retrieve details of a specific gacha item for a specific user **Parameters** Try it out Name **Description** user\_id \* required user\_id string (path) gacha\_id \* required gacha\_id string (path) Responses Code **Description** Links Gacha item retrieved successfully 200 No links Media type application/json Controls Accept header.

```
Code
              Description
                                                                                               Links
              Example Value Schema
                 "gacha_id": "string",
                "name": "string",
                "rarity": "string",
                "status": "string",
                "description": "string",
                "acquired date": "string",
                "locked": true,
                 "image": "string"
             User not found or gacha item not found in user inventory
404
                                                                                               No links
            /gacha/is_gacha_unlocked/{user_id}/{gacha_id}
  GET
            Check if a gacha item is unlocked for a user
Parameters
                                                                                          Try it out
                       Description
Name
user_id * required
                         user_id
string
(path)
gacha_id * required
                         gacha_id
string
(path)
Responses
              Description
Code
                                                                                               Links
              Gacha item is unlocked
200
                                                                                               No links
              Media type
               application/json
              Controls Accept header.
              Example Value Schema
                 "message": "string"
```

Code	Description	Links
400	Missing data to check gacha item	No links
403	Gacha item is locked	No links
PUT	/gacha/update_gacha_status Update the status of a ga	acha item for a user
Paramete	ers	Try it out
No param	neters	
Request	body <sup>required</sup>	application/json
{ "user_:	id": "string",	
"user_: "gacha "statu: }	id": "string", _id": "string", s": "string"	
"user_: "gacha "statu: }  Response	_id": "string"  s": "string"  es	Linke
"user_: "gacha "statu: }	_id": "string", s": "string"	Links No links
"user_: "gacha_ "status }  Response	id": "string", s": "string"  es  Description  Gacha status updated successfully  Media type  application/json  Controls Accept header.	
"user_; "gacha, "statu: }  Response  Code  200	id": "string", s": "string"   es  Description  Gacha status updated successfully  Media type  application/json  Controls Accept header.  Example Value Schema  {     "message": "string"	
"user_: "gacha "status }  Response	id": "string", s": "string"  es  Description  Gacha status updated successfully  Media type  application/json  Controls Accept header.  Example Value Schema  {     "message": "string" }	No links

Code Description Links

500 Failed to update gacha status No links

PUT /gacha/update\_gacha\_owner Update the owner of a gacha item

#### **Parameters**

Try it out

No parameters

Request body required

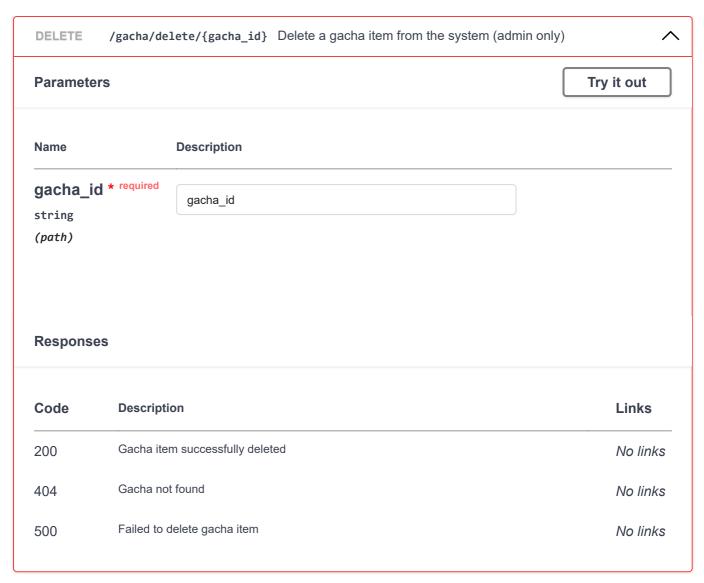
application/json

#### Example Value Schema

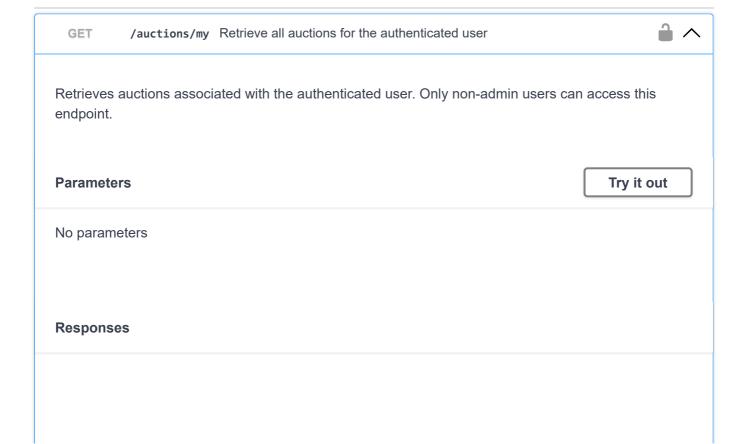
```
{
  "buyer_id": "string",
  "seller_id": "string",
  "gacha_id": "string",
  "status": "string"
}
```

#### Responses

Code	Description	Links
200	Gacha owner updated successfully  Media type  application/json  Controls Accept header.	No links
	<pre>Example Value Schema {     "message": "string" }</pre>	
400	Missing data to update gacha owner	No links
404	Buyer not found or gacha item not found	No links
500	Failed to update gacha owner	No links







Code	Description	Links
200	Successfully retrieved user's auctions.	No links
403	Admins cannot access this endpoint.	No links
500	Internal server error.	No links
GET	/auctions/get_auction Retrieve auction details	/
Retrieve d	etails for a specific auction using either auction_id or user_id.	
Paramete	rs	Try it out
Name	Description	
auction_i	d The ID of the auction.	
string (query)	auction_id	
	The ID of the user.	
user_id string	user_id	
(query)		
Response	es	
Code	Description	Links
200	Successfully retrieved auction details.	No links
200	Successfully retrieved auction details.  Missing or conflicting parameters.	No links No links

GET

Retrieve the highest bid amount for a specific auction using the gacha\_id parameter.

**Description** 

#### **Parameters**

Name

Try it out

gacha_id * required	The Gacha ID of the auction.	
string	gacha_id	
(query)		

#### Responses

Code	Description	Links
200	Successfully retrieved the highest bid.	No links
400	Missing gacha_id parameter.	No links
404	Auction not found.	No links
500	Database or internal error.	No links

PUT /auctions/update Update an auction





Update an existing auction using the provided data. The auction must belong to the user.

#### **Parameters**

Try it out

No parameters

Request body required

application/json

#### Example Value Schema

```
"auction_id": "string",
"base_price": 0,
```

```
"end_time": "2024-11-22T17:18:42.724Z"
Responses
Code
              Description
                                                                                                  Links
              Successfully updated the auction.
200
                                                                                                  No links
              Missing or invalid parameters.
400
                                                                                                  No links
              Unauthorized access to the auction.
403
                                                                                                  No links
              Auction not found.
404
                                                                                                  No links
              Database or internal error.
500
                                                                                                  No links
            /auctions/delete Delete an auction
DELETE
Delete an existing auction using the gacha id parameter.
                                                                                             Try it out
Parameters
                        Description
Name
gacha_id * required
                        The Gacha ID of the auction to delete.
string
                         gacha_id
(query)
Responses
              Description
Code
                                                                                                  Links
              Successfully deleted the auction.
200
                                                                                                  No links
              Missing or invalid gacha_id parameter.
                                                                                                  No links
400
```

Code	Description	Links
404	Auction not found.	No links
500	Database or internal error.	No links