

A7: High-level architecture. Privileges. Web resources specification

The architecture of the web application to develop is documented indicating the catalogue of resources and the properties of each resource, including: references to the graphical interfaces, and the format of JSON responses.

1 Overview

An overview of the web application to implement is presented in this section, where the modules are identified and briefly described. The web resources associated with each module are detailed in the individual documentation of each module.

M01: Authentication	Web resources associated with user authentication, includes the following system features: login/logout, registration and credential recovery.
M02: Users	Web resources associated with users, such as the following system, reviews, reports and user search. Furthermore, this module also includes the notifications management and the personal profile features.
M03: Auction	Web resources associated with an auction management such as view, create, edit or remove an auction. Additionally, the resources related to the questions, answers, bids and reports of an auction also are integrated in this module.
M04: Auctions and Watchlist	Web resources associated with auctions and watch lists. Regarding the auctions, this module includes the following system features: view and search for auctions. Finally, about the watch list, the system features are: list auctions in the watchlist, add and remove auctions from the watchlist and disable/enable notifications for the respective auction.
M05: Administrators	Web resources associated with website management, includes the following system features: view and manage reports, add others administrators, delete users, list users, notify users, list categories and add new categories.

2 Permissions

This section defines the permissions used in the modules to establish the conditions of access to resources.

PUB	Public	Group of users without privileges.
MBR	Member	Group of authenticated users that can create or bid on auctions.
OWN	Owner	Group of users that can update their profile and have privileges in their own auctions.
ADM	Administrator	Group of administrators.
WIN	Auction Winner	Group of users that won an auction and can review that auction seller.

3 Modules

Module M01: Authentication

This section documents each web resource of the Module M01: Authentication, indicating the URL, HTTP methods, the possible parameters, user interfaces or JSON responses in the event of APIs.

Endpoints of Module Authentication

These are the endpoints available in the Authentication module.

- **R101: Sign Up Form** /pages/authentication/signup.php
- **R102: Recover Credentials Form** /pages/authentication/recovery.php
- **R103: Sign In Admin Form** /pages/authentication/signin_admin.php
- **R104: Sign Out Action** /actions/authentication/signout.php
- **R105: Sign Up Action** /actions/authentication/signup.php
- **R106: Sign In Admin Action** /actions/authentication/signin_admin.php
- **R107: Recover Credentials Action** /api/authentication/recovery.php
- **R108: Sign In Action** /api/authentication/signin.php

R101: Sign Up Form

URL	/pages/authentication/signup.php
Description	Register form required to add an user to the website.
Method	GET
UI	UI01
SUBMIT	R105
Permissions	PUB

R102: Recover Credentials Form

URL	/pages/authentication/recovery.php
Description	Recovery form required to send an email to an user that forgot their password and/or username.
Method	GET
AJAX calls	R107
Permissions	PUB

R103: Sign In Admin Form

URL	/pages/authentication/signin_admin.php
Description	Admin authentication form.
Method	GET
SUBMIT	R106
Permissions	PUB, ADM

R104: Sign Out Action

URL	/actions/authentication/signout.php	
Description	This web resource logs out the authenticated user or admin.	
Method	POST	
Redirects	R402	Success
Permissions	MBR, ADM	

R105: Sign Up Action

URL	/actions/authentication/signup.php	
Description	This web resource creates a new user accordingly to the info passed through the form.	
Method	POST	
Request body	+username: String	Username selected by the new user to identify himself on the website
	+name: String	User first and last name
	+email: String	User email
	+password: String	User password
	+short_bio: text	Short biography about the user
Redirects	R402	Success
	R101	Error
Permissions	PUB	

R106: Sign In Admin Action

URL Example	/actions/authentication/signin_admin.php	
Description	This web resource authenticates an admin. If the username doesn't exist or the password is incorrect, it fails.	
Method	POST	
Request body	+username: String	Admin username
	+password: String	Admin password
Redirects	R502	Success
	R103	Error
Permissions	ADM	

R107: Recover Credentials

URL	/api/authentication/recovery.php	
Description	This web resource sends an email to the address specified with a link to reset the password.	
Method	GET	
Request body	+email: String	The link will be sent to this email address
Returns	200 OK	Email successfully sent.
	404 Not Found	Error. The specified email doesn't exist in the database records.
Permissions	PUB	

R108: Sign In

URL	/api/authentication/signin.php	
Description	This web resource authenticates an user, if the info given matches the database records.	
Method	POST	
Request body	+username: String	User username
	+password: String	User password
Returns	200 OK	User authenticated.
	404 Not Found	Error. The specified code doesn't exist in the database records.
Permissions	PUB	

Module M02: Users

This section documents each web resource of the Module M02: Users, indicating the URL, HTTP methods, the possible parameters, user interfaces or JSON responses in the event of APIs.

Endpoints of Module Users

These are the endpoints available in the Users module.

- **R201: View User Profile** /pages/user/user.php
- **R202: Edit User Profile Form** /pages/user/user_edit.php
- **R203: View User Notifications** /pages/user/notifications.php
- **R204: Edit User Profile Action** /actions/user/user_edit_profile.php
- **R205: Mark Notification as Read** /api/user/read_notification.php
- **R206: Delete Notification** /api/user/delete_notification.php
- **R207: Follow User** /api/user/follow.php
- **R208: Unfollow User** /api/user/unfollow.php
- **R209: Report User** /api/user/report_user.php
- **R210: Review Auction** /api/user/review_auction.php
- **R211: Search Users** /api/user/search_users.php
- **R212: Edit Password Action** /actions/user/user_edit_password.php

R201: View User Profile

URL	/pages/user/user.php	
Description	This page is for the user profile. Shows the user's activities, bio, active auctions, reviews, wins and other users he's following.	
Method	GET	
Parameters	+id: integer	user primary key
UI	UI07	
AJAX Calls	R207 , R208 , R209 , R210	
Permissions	PUB	

R202: Edit User Form

URL	/pages/user/user_edit.php	
Description	Page where the user can edit his personal information, change password and notification settings.	
Method	GET	
Parameters	+id: integer	User primary key
SUBMIT	R204 , R212	
UI	UI05	
Permissions	OWN	

R203: View User Notifications

URL	/pages/user/notifications.php	
Description	Show the notifications of the user.	
Method	GET	
Parameters	+id: integer	User primary key
AJAX Calls	R205	
	R206	
UI	UI08	
Permissions	OWN	

R204: Edit User Action

URL	/actions/user/user_edit_profile.php	
Description	This web resource changes the user record based on information received and, if successful, redirects the user to his profile page or, in case of failure, to the user edit form.	
Method	POST	
Request Body	+id: integer	User primary key
	+name: text	Name of user
	+short_bio: text	Short bio of user
	+full_bio: text	Full bio of user
	+email: text	Email of user
	+phone: text	Phone number of user
	+adress: text	Address of user
	+name_city: text	City of user
	+name_country: text	Country of user
Redirects	R201	Sucess
	R202	Error
Permissions	OWN	

R205: Mark Notification as Read

URL	/api/user/read_notification.php	
Description	Mark a notification as read from the system and the answer is given using HTTP codes.	
Method	POST	
Parameters	+id: integer	Notification primary key

Returns	200 OK	Notification successfully marked as read.
	404 Not found	No notification with the specified id exists.
Permissions	OWN	

R206: Delete Notification

URL	/api/user/delete_notification.php	
Description	It deletes a notification from the system and the answer is given using HTTP codes.	
Method	POST	
Parameters	+id: integer	Notification primary key
Returns	200 OK	Notification successfully deleted.
	404 Not Found	Error. No notification with the specified id exists.
	403 Forbidden	Error: The user doesn't have permissions to delete this notification
Permissions	OWN	

R207: Follow User

URL	/api/user/follow.php	
Description	Add a user to the current user following list.	
Method	POST	
Parameters	+id_follower: integer	Current user (follower) primary key
	+id_followed: integer	Followed user primary key
Returns	200 OK	User successfully added to the current user following list.
	404 Not Found	When one of the users are not found in the system
Permissions	MBR	

R208: Unfollow User

URL	/api/user/unfollow.php	
Description	Remove a user from the current user following list.	
Method	POST	
Parameters	+id_follower: integer	Current user primary key
	+id_followed: integer	Followed user primary key
Returns	200 OK	User successfully removed from the current user following list.
	404 Not Found	Error. Current user code or followed user code are not in the system.
Permissions	MBR	

R209: Report User

URL	/api/user/report_user.php	
Description	This web resource creates a report regarding a specific user.	
Method	POST	
Parameters	+id: integer	user primary key.
	+message: text	Message regarding the cause of the report.
	+data: timestamp	Date of the report.
Returns	200 OK	Report submitted with success.
	404 Not found	Error: couldn't find user with respective id.

Permissions	MBR
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R210: Review Auction

URL	/api/user/review_auction.php	
Description	This web resource creates a review associated with an auction.	
Method	POST	
Parameters	+bid_id: integer	Winning bid primary key.
	+rating: integer	Auction rating from 1 to 10.
	+message: text	Message with the user opinion.
	+date: timestamp	Date of the review.
Returns	200 OK	Review was written with success.
	404 Not found	Error: no bid with the specified id exists is associated to a winner bid.
	403 Forbidden	Error: The user doesn't have permissions to review this auction
Response body	JSON202	
Permissions	WIN	

R211: Search Users

URL	/api/user/search_users.php	
Description	Searches for users that matches the parameters specified during the search.	
Method	GET	
Parameters	+name: String	User name.
Response body	JSON201	
Permissions	PUB	

R212: Edit Password Action

URL	/actions/user/user_edit_password.php	
Description	This web resource changes the user password based on information received and, if successful, redirects the user to his profile page or, in case of failure, to the user edit form.	
Method	POST	
Request Body	+id: integer	User primary key
	+curr_pass: text	Current password
	+new_pass: text	New password
	+repeat_pass: text	Repetition of new password
Redirects	R201	Success
	R202	Error
Permissions	OWN	

Module M03: Auction

This section documents each web resource of the Module M03: Auction, indicating the URL, HTTP methods, the possible parameters, user interfaces or JSON responses in the event of APIs.

Endpoints of Module Auction

These are the endpoints available in the Auction module.

- **R301: View Auction** /pages/auction/auction.php
- **R302: Create Auction Form** /pages/auction/create_auction.php
- **R303: Edit Auction Form** /pages/auction/auction_edit.php
- **R304: Create Auction Action** /actions/auction/create_auction.php
- **R305: Edit Auction Action** /actions/auction/auction_edit.php
- **R306: Create Question** /api/auction/create_question.php
- **R307: Create Answer** /api/auction/create_answer.php
- **R308: Edit Question** /api/auction/question_edit.php
- **R309: Edit Answer** /api/auction/answer_edit.php
- **R310: Report Auction** /api/auction/report_auction.php
- **R311: Bid on Auction** /api/auction/bid.php
- **R312: Delete Auction** /api/auction/auction_delete.php
- **R313: Report Question** /api/auction/report_question.php
- **R314: Report Answer** /api/auction/report_answer.php

R301: View Auction

URL	/pages/auction/auction.php
Description	Shows all the info related to an auction.
Method	GET
Parameters	+id: integer Auction id from the auction that will be displayed
AJAX Calls	R303 , R306 , R307 , R308 , R309 , R310 , R311 , R312 , R313 , R314
UI	UI03
Permissions	PUB

R302: Create Auction Form

URL	/pages/auction/create_auction.php
Description	Form with the necessary info to create a new auction
Method	GET
SUBMIT	R304
UI	UI09
Permissions	MBR

R303: Edit Auction Form

URL	/pages/auction/auction_edit.php
Description	Form to edit the auction.
Method	GET
Parameters	+id: integer Auction primary key.
SUBMIT	R305
UI	UI09
Permissions	OWN

R304: Create Auction Action

URL	/actions/auction/create_auction.php	
Description	This web resource changes the auction record based on information received.	
Method	POST	
Request body	+id: integer	Auction primary key.
	+start_bid: double	The bid amount in the start.
	+start_date: timestamp	Date when the auction begins.
	+end_date: timestamp	Date when the auction ends.
	+type: auction_type	Type of the auction.
	+product_name: String	Product name.
	+description: text	Product description.
	+product_type: Array<Category_type>[2]	Product categories.
	+images: Array<String>	Product images.
Redirects	R301	Success
	R302	Error
Permissions	MBR	

R305: Edit Auction Action

URL	/actions/auction/auction_edit.php	
Description	This web resource adds an auction to the user's watchlist.	
Method	POST	
Request body	+id: integer	Auction primary key.
	+start_bid: double	The bid amount in the start.
	+start_date: timestamp	Date when the auction begins.
	+end_date: timestamp	Date when the auction ends.
	+type: auction_type	Type of the auction.
	+product_name: String	Product name.
	+description: text	Product description.
	+product_type: Array<Category_type>[2]	Product categories.
	+images: Array<String>	Product images.
Redirects	R301	Success
	R303	Error
Permissions	OWN	

R306: Create Question

URL	/api/auction/create_question.php	
Description	This web resource adds a question to an auction.	
Method	POST	
Parameters	+title: character varying(64)	Question generic title.
	+message: text	The question message.
	+date: timestamp	Date when the question was created.

	+user_id: integer	User who is posting the question (primary key).
	+auction_id: integer	
Returns	200 OK	Question successfully posted in the auction.
	404 Not Found	Error. The specified user id or auction id doesn't exists.
Response body	JSON301	
Permissions	MBR	

R307: Create Answer

URL	/api/auction/create_answer.php	
Description	This web resource adds an answer to a question.	
Method	POST	
Parameters	+message: text	The question message.
	+date: timestamp	Date when the question was created.
	+user_id: integer	User who is posting the question (primary key).
	+auction_id: integer	Auction where the question is being asked (primary key).
	+question_id: integer	Question which the seller is answering.
Returns	200 OK	Answer successfully posted in the auction.
	404 Not Found	Error. The specified user id, auction id or question id doesn't exists.
Response body	JSON302	
Permissions	OWN	

R308: Edit Question

URL	/api/auction/question_edit.php	
Description	This web resource allow the edition of a question.	
Method	POST	
Parameters	+title: character varying(64)	Question generic title.
	+message: text	The edited question message.
	+id: integer	Question primary key.
Returns	200 OK	Question successfully edited in the auction.
	404 Not Found	Error. Couldn't edit question.
	403 Forbidden	Error: The user doesn't have permissions to update this question
Response body	JSON301	
Permissions	OWN	

R309: Edit Answer

URL	/api/auction/answer_edit.php	
Description	This web resource allows the edition of an answer.	
Method	POST	
Parameters	+message: text	The edited answer message.
	+id: integer	Answer primary key.
Returns	200 OK	Answer successfully edited.
	404 Not Found	Error. Couldn't edit the answer.

	403 Forbidden	Error: The user doesn't have permissions to update this answer
Response body	JSON302	
Permissions	OWN	

R310: Report Auction

URL	/api/auction/report_auction.php	
Description	This web resource allows any user to report auctions to the administrators.	
Method	POST	
Parameters	+auction_id: integer	The id of the auction being reported (auction primary key).
	+date: timestamp	Date of the report.
	+message: text	Message regarding the cause of the report.
Returns	200 OK	Auction successfully reported.
	404 Not found	Error: auction's id doesn't exists.
Permissions	MBR	

R311: Bid on Auction

URL	/api/auction/bid.php	
Description	This web resource allows members to bid a certain amount on auctions.	
Method	POST	
Parameters	+user_id: integer	The id of the user doing the bid (user primary key).
	+auction_id: integer	The id of the auction the user is bidding (auction primary key).
	+date: timestamp	Date of the bid.
	+amount: integer	Amount of money being bid.
Returns	200 OK	Bid successfully registered.
	404 Not found	Error: auction's id or user's id doesn't exists.
Permissions	MBR	

R312: Delete Auction

URL	/api/auction/auction_delete.php	
Description	This web resource allows a seller to remove the auction from the website.	
Method	POST	
Parameters	+id: integer	The id of the auction (auction primary key).
Returns	200 OK	Auction successfully deleted.
	404 Not found	Error: Provided auction id doesn't exists.
	403 Forbidden	Error: The user doesn't have permissions to delete this auction
Permissions	OWN	

R313: Report Question

URL	/api/auction/report_question.php	
Description	This web resource allows a user to report a question.	
Method	POST	
Parameters	+id: integer	The id of the question (question primary key).
	+date: timestamp	Date of the report.
	+message: text	Message regarding the cause of the report.

Returns	200 OK	Question report successfully filled.
	404 Not found	Error: Provided question id doesn't exists.
Permissions	MBR	

R314: Report Answer

URL	/api/auction/report_answer.php	
Description	This web resource allows a user to report an answer.	
Method	POST	
Parameters	+id: integer	The id of the answer (answer primary key).
	+date: timestamp	Date of the report.
	+message: text	Message regarding the cause of the report.
Returns	200 OK	Answer report successfully filled.
	404 Not found	Error: Provided answer id doesn't exists.
Permissions	MBR	

Module M04: Auctions and Watchlist

This section documents each web resource of the Module M04: Auctions and Watchlist, indicating the URL, HTTP methods, the possible parameters, user interfaces or JSON responses in the event of APIs.

Endpoints of Module Auctions and Watchlist

These are the endpoints available in the Auctions and Watchlist module.

- **R401: View Auctions** /pages/auctions/auctions.php
- **R402: View Best Auctions** /pages/auctions/best_auctions.php
- **R403: View Auctions on Watchlist** /pages/auctions/watchlist.php
- **R404: Search Auctions** /api/auctions/search_auctions.php
- **R405: Add Auction to Watchlist** /api/auctions/add_auction_watchlist.php
- **R406: Toogle Notifications** /api/auctions/toogle_notifications.php
- **R407: Remove Auction from Watchlist**
/api/auctions/delete_auction_watchlist.php

R401: View Auctions

URL	/pages/auctions/auctions.php
Description	Shows a paginated list of all auctions.
Method	GET
AJAX Calls	R404
UI	UI04
Permissions	PUB

R402: View Best Auctions

URL	/pages/auctions/best_auctions.php
Description	Shows a list of the best auctions

Method	GET
UI	UI10
Permissions	PUB

R403: Watchlist Auctions

URL	/pages/auctions/watchlist.php	
Description	Shows a list of the auctions that are in the watchlist of the user.	
Method	GET	
Parameters	+id: integer	User primary key.
AJAX Calls	R407 , R406	
UI	UI06	
Permissions	MBR	

R404: Search Auctions

URL	/api/auctions/search_auctions.php	
Description	Searches for auctions that matches the parameters specified during the search.	
Method	GET	
Parameters	+name: String	Auction product name.
	+category: String	Auction product category.
	+price_min: integer	Minimum current bid.
	+price_max: integer	Maximum current bid.
	+type: auction_type	Type of the auction.
	+min_date: timestamp	Minimum start date.
	+max_date: timestamp	Maximum end date.
Response body	JSON401	
Permissions	PUB	

R405: Add Auction to Watchlist

URL	/api/auctions/add_auction_watchlist.php	
Description	This web resource adds an auction to the user's watchlist.	
Method	POST	
Parameters	+auction_id: integer	Auction that will be added (auction primary key).
	+user_id: integer	User identifier that wants to add the auction (user primary key).
Returns	200 OK	Auction successfully added to the watch list.
	404 Not Found	Error. The specified auction or user identifier doesn't exist.
	409 Conflict	Error. Those records are already present in the database.
Permissions	MBR	

R406: Toggle Notifications

URL Example	/api/auctions/toggle_notifications.php	
Description	This web resource changes the value "notification" that defines if the user receives notifications related to the auction.	
Method	POST	
Parameters	+auction_id: integer	Auction identifier (auction primary key).

	+user_id: integer	User identifier that has the auction in his watch list (user primary key).
Returns	200 OK	Notifications successfully toggled.
	404 Not Found	Error. No watchlist record with the specified user or auction exists.
Permissions	MBR	

R407: Remove Auction from Watchlist

URL	/api/auctions/delete_auction_watchlist.php	
Description	This web resource removes an auction from the watchlist.	
Method	POST	
Parameters	+auction_id: integer	Auction identifier (auction primary key).
	+user_id: integer	User identifier that has the auction in his watch list (user primary key).
Returns	200 OK	Auction successfully removed from the watch list.
	404 Not Found	Error. No watchlist record with the specified user or auction exists.
Permissions	MBR	

Module M05 Administrator

This section documents each web resource of the Module M05: Administrators, indicating the URL, HTTP methods, the possible parameters, user interfaces or JSON responses in the event of APIs.

Endpoints of Module Administrator

These are the endpoints available in the Administrator module.

- **R501: View Reports of a desired type** /pages/admin/reports.php
- **R502: List Users** /pages/admin/users.php
- **R503: List Auctions** /pages/admin/auctions.php
- **R504: List Categories** /pages/admin/categories.php
- **R505: Add Admin Form** /pages/admin/add_admin.php
- **R506: Add Admin Action** /api/admin/add_admin.php
- **R507: Notify User** /api/admin/notify_user.php
- **R508: Add Category** /api/admin/add_auction.php
- **R509: Remove Report** /api/admin/remove_report.php
- **R510: Remove User** /api/admin/remove_user.php
- **R511: Remove Auction** /api/admin/remove_auction.php
- **R512: Remove Category** /api/admin/remove_category.php

R501: View Reports

URL	/pages/admin/reports.php	
Description	Shows a list of reports accordingly to the selected type. The reports are ordered by date.	
Method	GET	
Parameters	+type: String	Type of report selected (auction, user, comment, review)

AJAX Calls	R509
UI	UI02
Permissions	ADM

R502: List Users

URL	/pages/admin/users.php
Description	Shows a list of users ordered by ID.
Method	GET
Parameters	?username: String Expression to use to filter the user by name.
AJAX Calls	R510 , R211
UI	UI02
Permissions	ADM

R503: List Auctions

URL	/pages/admin/auctions.php
Description	Shows a list of auctions ordered by creation date.
Method	GET
Parameters	?name: String Expression to use to filter the auctions by name.
AJAX Calls	R511 , R404
UI	UI02
Permissions	ADM

R504: List Categories

URL	/pages/admin/categories.php
Description	Shows a list of categories.
Method	GET
AJAX Calls	R508 , R512
UI	UI02
Permissions	ADM

R505: Add Admin Form

URL	/pages/admin/add_admin.php
Description	Register Form required to add an administrator.
Method	GET
UI	UI02
SUBMIT	R506
Permissions	ADM

R506: Add Admin Action

URL Example	/api/admin/add_admin.php
Description	This web resource adds a new admin to the admin records and the answer is given using HTTP codes.
Method	POST
Parameters	+username: String Admin username.

	+email: String	Admin email.
	+password: String	Admin password.
	+password_again: String	Admin password retyped.
Returns	200 OK	Admin successfully added.
	409 Conflict	Error. The admin info already exists.
Permissions	ADM	

R507: Notify User

URL	/api/admin/notify_user.php	
Description	This web resource sends a notification to an user with the info given by the admin.	
Method	POST	
Parameters	+id: integer	User id to receive the notification (user primary key).
	+message: text	Notification reason.
	+type: String	Type of notification.
Returns	200 OK	Notification successfully added.
	404 Not Found	Error creating the notification. Specified user id doesn't exists.
Permissions	ADM	

R508: Add Category

URL	/api/admin/add_category.php	
Description	This web resource adds a new auction category.	
Method	POST	
Request body	+name: String	Category name.
Returns	200 OK	Category successfully added.
	409 Conflict	Error adding category. Category already exists.
Permissions	ADM	

R509: Remove Report

URL	/api/admin/remove_report.php	
Description	This web resource deletes a report from the system and the answer is given using HTTP codes.	
Method	POST	
Parameters	+id: integer	Id from the report that will be removed (report primary key).
Returns	200 OK	Report successfully deleted.
	404 Not Found	Error. No report with the specified code exists.
Permissions	ADM	

R510: Remove User

URL	/api/admin/remove_user.php	
Description	This web resource deletes a user from the system and the answer is given using HTTP codes.	
Method	POST	
Parameters	+id: integer	Id from the user that will be removed (user primary key).
Returns	200 OK	User successfully deleted.

	404 Not Found	Error. No user with the specified code exists.
Permissions	ADM	

R511: Remove Auction

URL	/api/admin/remove_auction.php	
Description	This web resource deletes an auction and the respective associations from the system and the answer is given using HTTP codes.	
Method	POST	
Parameters	+id: integer	Id from the auction that will be removed (auction primary key).
Returns	200 OK	Auction successfully deleted.
	404 Not Found	Error. No auction with the specified code exists.
Permissions	ADM	

R512: Remove Category

URL	/api/admin/remove_category.php	
Description	This web resource deletes a category from the system and the answer is given using HTTP codes.	
Method	POST	
Parameters	+name: String	Name of the category that will be removed.
Returns	200 OK	Category successfully deleted.
	404 Not Found	Error. No category with the specified code exists.
Permissions	ADM	

4 JSON/XML Types

The structure of the JSON formatted answers must be documented as illustrated below.

JSON201: Search Users: {user}[]

```
{
  "users": [
    {
      "id": "12346",
      "username": "JD",
      "name": "John Doe",
      "short_bio": "description",
      "profile_pic": "picture",
      "rating": "7.5"
    },
    {
      "id": "12345",
      "username": "MD",
      "name": "Mary Doe",
      "short_bio": "description",
      "profile_pic": "picture",

```

```
    "rating": "8.0"
  }
]
}
```

JSON202: Add Review: {Review}[]

```
{
  "review": [
    {
      "id": "8",
      "date": "2017/04/03 09:47:19",
      "message": "This product was so good.",
      "rating": "8",
      "bid_id": "80"
    }
  ]
}
```

JSON301: Add Question: {question}[]

```
{
  "question": [
    {
      "id": "12",
      "date": "2017/04/03 09:43:22",
      "message": "Is this product available for portugal?",
      "title": "Shipping",
      "user_id": "123",
      "auction_id": "12346"
    }
  ]
}
```

JSON302: Add Answer: {answer}[]

```
{
  "answer": [
    {
      "id": "8",
      "date": "2017/04/03 09:47:19",
      "message": "Yes it is.",
      "question_id": "12",
      "user_id": "12346",
      "auction_id": "12346"
    }
  ]
}
```

```
}
```

JSON401: Search Auctions: {auction}[]

```
{
  "auctions": [
    {
      "id": "12346",
      "curr_bid": "9.99",
      "start_date": "2017/03/27 11:00:00",
      "end_date": "2017/03/28 11:00:00",
      "type": "normal",
      "user_id": "12345",
      "product_id": "10"
    },
    {
      "id": "12346",
      "curr_bid": "9.99",
      "start_date": "2017/04/01 17:00:00",
      "end_date": "2017/04/03 17:00:00",
      "type": "normal",
      "user_id": "12346",
      "product_id": "13"
    }
  ]
}
```

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