ReactPlay Restfuldb API

POST /login

Related View restviews.login

Description

Users can log in by submit their username and password. If the user already logged in, return their information.

Parameters

Name	Field Type	Restriction
username	Char	Not null
password	Char	Not null

Responses

Code	Status	Situation	Data	Description
100	CONTINUE	Logged in user	status (logged-in-user), desc, userinfo (userid, username, email, role)	
200	ОК	Anonymous	status (success), desc, userinfo	Log in
200	ÜK	user	(userid, username, email, role)	successfully.
400	BAD REQUEST	Anonymous	status (failura) dass	
401	UNAUTHORIZED	user	status (failure), desc	

POST /register

Related View restviews.register

Description

Users can register by submit the username, password, email, and role. If the user already logged in or register successfully, return their information.

Parameters

Name	Field Type	Restriction
username	Char	Not null
password	Char	Not null
email	Char	
nala.	Char	UserPlayer /
role	Char	UserDeveloper

Responses					
Code	Status	Situation	Data	Description	
		Logged in	status (logged-in-user), desc,		
100	CONTINUE		userinfo (userid, username, email,		
		user	role)		
201	Anon		status (success), desc, userinfo	Register	
201 CREATED		user	(userid, username, email, role)	successfully.	

400	BAD REQUEST	Anonymous user	status (failure), desc		
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POST /logout

Related View restviews.logout

Description

Users are able to logout.

Parameters

Nothing needs to input.

Responses

Code	Status	Situation	Data	Description
200	ОК		status (success), desc	Log out successfully.
400	BAD REQUEST	Unknown error	status (failure), desc	

GET /users

Related View restviews.all_users

Description

Only the super user can view the list of all users, other users have no permission.

Parameters

Nothing needs to input.

Responses

Code	Status	Situation	Data	Description
200	ОК	Cuparusar	ctatus (success) doss usarlist	Get list for all
200	UK	Super user	status (success), desc, userlist	usernames.
401	UNAUTH	Other users	status (failura) dass	No normission
401	ORIZED	Other users	status (failure), desc	No permission.

GET /users/[userid]

Related View restviews.user_info

Description

User can view their own information, but not allowed to view other people's account detail.

Parameters

Name	Туре	Restriction
userid	Integer	RESTful. Input by url,
useriu	Integer	not by request.

Code	Status	Situation	Data	Description
200	ОК	Logged in user	status (success), desc, userinfo (userid, username, email, owned_games (gameheader (gameid, gamename, author), purchase_date, score), role)	Get their own user information
400	BAD REQUEST	Unknown user	status (failure), desc	User doesn't exist
401	UNAUTHO RIZED	Logged in user	status (failure), desc	Does not request for their own account. No permission.

GET /users/[userid]/games/[gameid]

Related View restviews.usergames

Description

Logged in user can view their own game states, and it's only for the game they owned. Not allowed to view other people's states. Super user has the highest authority, who can access to everyone's state.

Parameters

Name	Туре	Restriction
userid	Integer	RESTful. Input by url, not
useriu	Integer	by request.
aamaid	Intogor	RESTful. Input by url, not
gameid	Integer	by request.

Code	Status	Situation	Data	Description
200	ОК	Logged in user or super user	status (success), desc, usergame_info (userid, gameid, purchase_date, score, state)	Get all UserGame information.
400	BAD REQUEST	Unknown error	status (failure), desc	
		Anonymous user	status (failure), desc	No permission.
401	UNAUTHO RIZED	Logged in user	status (failure), desc	Does not own the game, or does not request for their own account. No permission.

Related View restviews.usergames

Description

User can modify their own game states, and it's only for the game they owned. Not allowed to modify other people's states. Super user has the highest authority, who can access to everyone's state.

Parameters

Name	Field Type	Restriction
score	Integer	Default 0
states	Text	

^{*} No need to input all of them

Responses

Code	Status	Situation	Data	Description
200	ОК	Logged in user or super user	status (success), desc	Create/Update UserGame information
400	BAD REQUEST	Unknown error	status (failure), desc	
		Anonymous user	status (failure), desc	No permission.
401	UNAUTHO RIZED	Logged in user	status (failure), desc	Does not own the game, or does not request for their own account. No permission.

GET/genres

Related View restviews.all_genres

Description

Show the list of all genre's id and name.

Parameters

Nothing needs to input.

Responses

Code	Status	Situation	Data	Description
200	OK		status (success), desc,	Get list for all genres (id,
200	OK		genrelist (genreid, name)	name).
400	BAD	Unknown	atatus (failuse) dasa	
400	REQUEST	error	status (failure), desc	

GET /games

Related View restviews.all_games

Description

Show the list of all game's information to logged in user. Anonymous user has no permission.

Parameters

Nothing needs to input.

Responses

Code	Status	Situation	Data	Description
200	ОК	Logged in user	status (success), desc, gamelist (gameid, name, author, price, description)	Get all game information.
401	UNAUTHO RIZED	Anonymous user	status (failure), desc	No permission.

POST /games

Related View restviews.all_games

Description

Show the list of game information which filtered by game genres.

Parameters

Name	Туре	Restriction
genre_ids	list	

Responses

Code	Status	Situation	Data	Description
		Loggodin	status (success), desc,	Get all game
200	ОК	Logged in user	gamelist (gameid, name,	information by genre
			author, price, description)	filter.
401	UNAUTHO	Anonymous	status (failura) dasa	No normission
401	RIZED	user	status (failure), desc	No permission.

GET /games/[gameid]

Related View restviews.game_detail

Description

Show the game list. Anonymous user and the logged in user who doesn't own the game cannot get the game URL. Logged in users and game author can access all game information.

Parameters

Name	Type	Restriction	
gameid	Integer	RESTful. Input by url,	
gumera	integer	not by request.	

Code	Status	Situation	Data	Description
200	ОК	Anonymous	status (success), desc,	Get game detail except

		user	game_detail (gameid, name, author, price, description)	url.
		Logged in user - Author	status (success), desc, game_detail (gameid, name, author, price, description, url)	Get all game details.
		Logged in	status (success), desc, game_detail (gameid, name, author, price, description, url)	Own the game. Get all game details.
		user - Player	status (success), desc, game_detail (gameid, name, author, price, description)	Does not own the game. Get game detail except url.
400	BAD REQUEST	Unknown error	status (failure), desc	

POST /games/[gameid]

Related View restviews.game_detail

Description

Only the author of the game can update the game information.

Parameters

Name	Field Type	Restriction
namo	Char	Max length 255,
name	Cital	unique
price	Positive Integer	Default 0
description	Text	
url	URL	
aamaid	Intogor	RESTful. Input by url,
gameid	Integer	not by request.

^{*} No need to input all of them

Code	Status	Situation	Data	Description
200	ОК	Logged in user - Author	status (success), desc, game_detail (gameid, name, author, price, description)	Update the game detail.
401	UNAUTHO RIZED	Other users	status (failure), desc	No permission.

GET /games/[gameid]/analytic

Related View restviews.game_analytic

Description

Collect relevant information from all related UserGames.

Parameters

Name	Туре	Restriction
gameid	Integer	RESTful. Input by url,
	Integer	not by request.

Code	Status	Situation	Data	Description
200	ОК	Logged in user	status (success), desc, info (score / purchase_date, purchase_price, score)	Will return (purchase_date, purchase_price, score) if the user is the author of the game or is super user.
401	UNAUTHO RIZED	Anonymous user	status (failure), desc	No permission.

Appendix

Models.py

	Fields	Attributes
Hoos	username, email, password, groups, is_staff,	is_authenticated,
User	is_active, is_superuser, last_login	is_anonymous
Group name, permissions		
GameGenre	name	
Game	name, author, genre, price, description, url	set_price
	user, game, purchase_date, purchase_price, score,	set_score,
UserGame	state	set_state

GameGenre				
name	Char, unique			

Game				
name Char, unique				
author ForeignKey (User / developedgames)				
genre ForeignKey (GameGenre / developedgames)				
price	PositiveInteger (0)			
description	Text			
url	url URL			

UserGame				
user	ForeignKey (User / usergames)			
game	ForeignKey (Game / usergames)			
purchase_date	Date (now)			
purchase_price	Integer (0)			
score	Integer (0)			
state	Text			

Urls.py

	method	related views
users/	GET	all_users
users/[userid]/	GET	user_info
users/[userid]/games/[gameid]	GET/POST	usergames
genres/	GET	all_genres
games/	GET/POST	all_games
games/[gameid]/	GET/POST	game_detail

games/[gameid]/analytic/	GET	game_analytic
login	POST	login
register	POST	register
logout	POST	logout

Views.py

See *api.xlsx* sheet 3.

Created information

Group				
name	permissions			
UserPlayer	add_usergame, change_usergame			
UserDeveloper	add_game, change_game			

	User						
id	id name password email role						
1	super	debugpass	nobody@nowhere.com	SuperUser			
2	player	debugpass	nobody@nowhere.com	UserPlayer			
3	developer	debugpass	nobody@nowhere.com	UserDeveloper			

GameGenre					
id	name				
1	Platform				
2	Shooter				
3	Fighting				
4	Adventure				
5	Survival				

Game							
id name author genre price description url						url	
1	test game	developer	genre	10	test description	http://notvalid.com	
2	test game 2	developer	genre	20	test description 2	http://notvalid2.com	

	UserGame						
id user game purchase_date purchase_price score state						state	
1	player	game	now	0	1337		