default_controller.py File Reference

Controller module for the Vorarlberg The Game backend server. More...

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List[Dict] or	· · · · · · · · · · · · · · · · · · ·
	<pre>penapi_server.controllers.default_controller.cards_card_id_discard_post ard_id)</pre>
	Discard a card from the player's hand.
	<pre>penapi_server.controllers.default_controller.cards_card_id_use_post (in- ard_id)</pre>
L	Use a card from the player's hand.
List[Dict] or	penapi_server.controllers.default_controller.cards_get ()
	Get all cards currently in the player's hand.
	<pre>penapi_server.controllers.default_controller.curses_curse_id_complete_point curse_id)</pre>
N	Mark a curse as completed and remove it from active curses.
List[Dict] or	penapi_server.controllers.default_controller.curses_get ()
(Get all currently active curses.
Tuple[None, int] or	penapi_server.controllers.default_controller.exists_get ()
	Check if the server is running and accessible.
Tuple[None, int] or	penapi_server.controllers.default_controller.game_end_post ()
E	End the current game and reset all game state.
Dict op	penapi_server.controllers.default_controller.game_info_get ()
(Get current game information.
Tuple[None, int] or	penapi_server.controllers.default_controller.game_start_post ()
S	Start a new game.
Tuple[None, int] or	penapi_server.controllers.default_controller.game_swap_roles_post ()

	Swap the roles of hider and seeker players.
Tuple[None, int]	<pre>openapi_server.controllers.default_controller.hider_bus_stop_bus_stop_id_</pre>
	(int bus_stop_id)
	Set the bus stop where the hider is hiding.
Dict	openapi_server.controllers.default_controller.hider_get_coordinates_get
	Get the current coordinates of the hider.
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	Get detailed information about the hider's current location.
<pre>Tuple[None, int]</pre>	<pre>openapi_server.controllers.default_controller.hider_post_coordinates_post (Dict body)</pre>
	Update the hider's coordinates.
Tuple[None, int]	<pre>openapi_server.controllers.default_controller.questions_answer_post ()</pre>
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Tuple[None, int]	<pre>openapi_server.controllers.default_controller.questions_ask_question_id_p (int question_id)</pre>
	Ask a new question.
Dict	<pre>openapi_server.controllers.default_controller.questions_current_get ()</pre>
	Get information about the currently asked question.
List[Dict]	<pre>openapi_server.controllers.default_controller.questions_get ()</pre>
	Get all available questions.
List[Dict]	<pre>openapi_server.controllers.default_controller.questions_previous_get ()</pre>
	Get all previously asked questions.
<pre>Tuple[None, int]</pre>	<pre>openapi_server.controllers.default_controller.questions_veto_post ()</pre>
	Veto (cancel) the current question.
Dict	openapi_server.controllers.default_controller.seeker_get_coordinates_get
	Get the current coordinates of the seeker.
Dict	<pre>openapi_server.controllers.default_controller.seeker_info_get ()</pre>
	Get detailed information about the seeker's current location.
Tuple[None, int]	<pre>openapi_server.controllers.default_controller.seeker_post_coordinates_post (Dict body)</pre>
	Update the seeker's coordinates and check for game end condition.

Variables

dict openapi_server.controllers.default_controller.DB_CONFIG		
!		
dict openapi_server.controllers.default_controller.GAME_STATE		
!		
dict openapi_server.controllers.default_controller.HIDER_INFO		
!		

dict openapi_server.controllers.default_controller.SEEKER_INFO

Detailed Description

Controller module for the Vorarlberg The Game backend server.

This module implements all the controller functions for the game's API endpoints. It handles game state management, player coordinates, questions, cards, and more.

Function Documentation

bus_routes_get()

List[Dict] openapi_server.controllers.default_controller.bus_routes_get ()

Get all available bus routes from the database.

Returns

List of dictionaries containing route information Each dictionary contains:

- routeld: The unique identifier of the route
- routeName: The name of the route

([{}], 500) on database error

bus_stops_get()

List[Dict] openapi_server.controllers.default_controller.bus_stops_get ()

Get all bus stops from the database.

Returns

List of dictionaries containing bus stop information Each dictionary contains:

- busStopId: The unique identifier of the bus stop
- busStopName: The name of the bus stop
- busStopLat: The latitude coordinate of the bus stop
- busStopLon: The longitude coordinate of the bus stop

([{}], 500) on database error

bus_stops_in_range_get()

List[Dict] openapi_server.controllers.default_controller.bus_stops_in_range_get ()

Get all bus stops within 400 meters of the seeker's current position.

Returns

List of dictionaries containing nearby bus stop information Each dictionary contains:

- busStopId: The unique identifier of the bus stop
- busStopName: The name of the bus stop
- busStopLat: The latitude coordinate of the bus stop
- busStopLon: The longitude coordinate of the bus stop

Note

Uses SEEKER_INFO global variable for current seeker position Maximum range is 400 meters

Returns

([{}], 500) on database error

cards_card_id_discard_post()

Tuple[None, int]

openapi_server.controllers.default_controller.cards_card_id_discard_post (in

(int card_id)

Discard a card from the player's hand.

Parameters

card_id The unique identifier of the card to discard

Returns

(None, 200) if successful

(None, 404) if card not found or not in hand

(None, 500) on database error

cards_card_id_use_post()

Use a card from the player's hand.

Parameters

card_id The unique identifier of the card to use

Returns

(None, 200) if successful (None, 404) if card not found or not in hand (None, 500) on database error

Note

For curse cards, they are added to the curses table with current timestamp Other cards are marked as 'In Effect'

cards_get()

List[Dict] openapi_server.controllers.default_controller.cards_get ()

Get all cards currently in the player's hand.

Returns

List of dictionaries containing card information Each dictionary contains:

- cardld: The unique identifier of the card
- name: The name of the card
- description: The description of the card's effect
- type: The type of the card (e.g., 'curse')

([{}], 500) on database error

curses_curse_id_complete_post()

Mark a curse as completed and remove it from active curses.

Parameters

curse_id The unique identifier of the curse to complete

Returns

(None, 200) if successful (None, 404) if curse not found (None, 500) on database error

curses_get()

List[Dict] openapi_server.controllers.default_controller.curses_get ()

Get all currently active curses.

Returns

List of dictionaries containing curse information Each dictionary contains:

- curseld: The unique identifier of the curse
- name: The name of the curse
- description: The description of the curse's effect

([{}], 500) on database error

exists_get()

Tuple[None, int] openapi_server.controllers.default_controller.exists_get ()

Check if the server is running and accessible.

Returns

(None, 200) if server is running

game_end_post()

Tuple[None, int] openapi_server.controllers.default_controller.game_end_post ()

End the current game and reset all game state.

Returns

(None, 200) if successful (None, 500) on database error

Note

Resets all temporary tables (cards, curses, questions) Resets global game state variables

game_info_get()

Dict openapi_server.controllers.default_controller.game_info_get ()

Get current game information.

Returns

Dictionary containing game information:

- currentGameTimer: Time elapsed since game start in seconds
- hiderName: Name of the hider player
- seekerName: Name of the seeker player

◆ game_start_post()

Tuple[None, int] openapi_server.controllers.default_controller.game_start_post()

Start a new game.

Returns

(None, 200) if successful (None, 500) on database error

Note

Initializes card deck with all cards set to 'In Deck'

Deals initial hand of 3 cards

Initializes questions table with all questions set to 'Not Asked'

Clears any existing curses

game_swap_roles_post()

Tuple[None, int] openapi_server.controllers.default_controller.game_swap_roles_post ()

Swap the roles of hider and seeker players.

Returns

(None, 200) if successful

Note

Swaps player names in GAME_STATE

Swaps player coordinates between HIDER_INFO and SEEKER_INFO

Resets hider's bus_stop_id to None

get_db_connection()

openapi_server.controllers.default_controller.get_db_connection ()

Establish a connection to the MySQL database.

Returns

mysql.connector.connection.MySQLConnection object if successful, None if failed

◆ haversine_distance()

Calculate the great circle distance between two points on the earth.

Parameters

lat1 Latitude of the first point in decimal degrees

lon1 Longitude of the first point in decimal degrees

lat2 Latitude of the second point in decimal degrees

lon2 Longitude of the second point in decimal degrees

Returns

Distance in meters between the two points

hider_bus_stop_bus_stop_id_post()

Tuple[None, int]
openapi_server.controllers.default_controller.hider_bus_stop_bus_stop_id_post (int bus_stop_id)

Set the bus stop where the hider is hiding.

Parameters

bus_stop_id The unique identifier of the chosen bus stop

Returns

(None, 200) if successful (None, 404) if bus stop not found (None, 500) on database error

Note

Updates hider's coordinates to match the bus stop location

hider_get_coordinates_get()

Dict openapi_server.controllers.default_controller.hider_get_coordinates_get ()

Get the current coordinates of the hider.

Returns

Dictionary containing hider's coordinates:

- lat: Latitude coordinate
- Ion: Longitude coordinate
- hider_info_get()

Dict openapi_server.controllers.default_controller.hider_info_get ()

Get detailed information about the hider's current location.

Returns

Dictionary containing hider information:

- lat: Latitude coordinate
- Ion: Longitude coordinate
- busStationName: Name of the bus station (if at one)
- busStationLat: Bus station latitude
- busStationLon: Bus station longitude
- busStationAltitude: Altitude of the bus station
- busStationBezirk: District where the bus station is located
- busStationGemeinde: Municipality where the bus station is located
- distanceToNearestTrainStation: Distance to nearest train station
- distanceToNearestMountain: Distance to nearest mountain
- distanceToNearestMinigolf: Distance to nearest minigolf
- distanceToNearestMuseum: Distance to nearest museum

(Dict, 500) on database error with basic location info only

♦ hider post coordinates post()

Tuple[None, int]

openapi_server.controllers.default_controller.hider_post_coordinates_post

(Dict body)

Update the hider's coordinates.

Parameters

body Dictionary containing new coordinates:

- lat: New latitude coordinate
- Ion: New longitude coordinate

Returns

(None, 200) if successful

(None, 400) if request body is invalid

questions_answer_post()

Tuple[None, int] openapi_server.controllers.default_controller.questions_answer_post ()

Mark the current question as answered.

Returns

(None, 200) if successful (None, 404) if no current question exists (None, 500) on database error

Note

Updates question status to 'Previously Asked' with answer='Answered'

questions_ask_question_id_post()

Tuple[None, int]
openapi_server.controllers.default_controller.questions_ask_question_id_post (int question_id)

Ask a new question.

Parameters

question_id The unique identifier of the question to ask

Returns

(None, 200) if successful (None, 404) if question not found or already asked (None, 500) on database error

Note

Marks any current question as 'Previously Asked' Sets the new question as 'Currently Asked' with current timestamp

questions_current_get()

Dict openapi_server.controllers.default_controller.questions_current_get ()

Get information about the currently asked question.

Returns

Dictionary containing current question information:

- questionId: Unique identifier of the question
- name: Name of the question
- description: Description or text of the question
- timeLeft: Time remaining to answer in seconds
- ({}, 404) if no current question
- ({}, 500) on database error

questions_get()

List[Dict] openapi_server.controllers.default_controller.questions_get ()

Get all available questions.

Returns

List of dictionaries containing question information:

- id: Unique identifier of the question
- name: Name of the question
- description: Description or text of the question
- alreadyAsked: Boolean indicating if question was already asked

([{}], 500) on database error

questions_previous_get()

List[Dict] openapi_server.controllers.default_controller.questions_previous_get ()

Get all previously asked questions.

Returns

List of dictionaries containing previous question information:

- questionId: Unique identifier of the question
- name: Name of the question
- description: Description or text of the question
- answer: The answer given or "No answer" if unanswered

([{}], 500) on database error

questions_veto_post()

Tuple[None, int] openapi_server.controllers.default_controller.questions_veto_post()

Veto (cancel) the current question.

Returns

(None, 200) if successful (None, 404) if no current question exists (None, 500) on database error

Note

Resets question status to 'Not Asked' and clears timestamp

◆ seeker_get_coordinates_get()

Dict openapi_server.controllers.default_controller.seeker_get_coordinates_get ()

Get the current coordinates of the seeker.

Returns

Dictionary containing seeker's coordinates:

- lat: Latitude coordinate
- Ion: Longitude coordinate
- ◆ seeker_info_get()

Dict openapi_server.controllers.default_controller.seeker_info_get ()

Get detailed information about the seeker's current location.

Returns

Dictionary containing seeker information:

- lat: Latitude coordinate
- Ion: Longitude coordinate
- altitude: Current altitude
- bezirk: Current district
- gemeinde: Current municipality
- distanceToNearestTrainStation: Distance to nearest train station
- distanceToNearestMountain: Distance to nearest mountain
- distanceToNearestMinigolf: Distance to nearest minigolf
- distanceToNearestMuseum: Distance to nearest museum

Basic info dict with default values on database error

seeker_post_coordinates_post()

Tuple[None, int]

openapi_server.controllers.default_controller.seeker_post_coordinates_post

(Dict body)

Update the seeker's coordinates and check for game end condition.

Parameters

body Dictionary containing new coordinates:

- lat: New latitude coordinate
- Ion: New longitude coordinate

Returns

(None, 200) if successful

(None, 400) if request body is invalid

Note

Checks if seeker is within 20 meters of hider for game end condition

Variable Documentation

◆ DB_CONFIG

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dict openapi_server.controllers.default_controller.DB_CONFIG

Initial value:
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Database configuration settings

◆ GAME_STATE

dict openapi_server.controllers.default_controller.GAME_STATE

Initial value:

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Global game state variables

◆ HIDER_INFO

dict openapi_server.controllers.default_controller.HIDER_INFO

Initial value:

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Global hider information

◆ SEEKER_INFO

dict openapi_server.controllers.default_controller.SEEKER_INFO

Initial value:

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Global seeker information