

Design of Dynamic Web Systems - Group DROP TABLES

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Github for project - <https://github.com/Gustav-Rixon/M7011E>

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1 Note

There are two types of API endpoints and in one of them the parameters have to come in the given order or the API won't give the expected response. These endpoints will be marked with * in their title.

2 API documentation

2.1 change_power

Description: Changes a power plant's power output

- method : POST
- endpoint : /admin/tools/change_power
- parameters : token, id, target
- response : on success - Changing power, Unauthorised, Wrong request method; if not method is POST, if power change is 0 - Changing to nothing.

Example: HOST:5000/admin/tools/change_power?target=1&id=adminid&token=validJWT&power=10000

2.2 buy*

Description: User buy from market

- method : POST
- endpoint : /sell/house_hold/prosumer/house_hold_id=<int:id>&amount=<int:amount>&token=<string:token>
- parameters : token, id, amount
- response : if request is successful - SUCC [INFO] else - FAIL [INFO], Unauthorised, Wrong request method

Example: HOST:5000/sell/house_hold/prosumer/house_hold_id=1&amount=100&token=validJWT

2.3 sell*

Description: User sell to market

- method : POST
- endpoint : /sell/house_hold/prosumer/house_hold=<int:id>&amount=<int:amount>&token=<string:token>
- parameters : token, id, amount
- response : if request is successful - You have now sold [INFO] else - Failed not enough minerals!, Unauthorised, Wrong request method, if user is blocked - Failed you are blocked from selling. Blocked for [INFO]

Example: HOST:5000/sell/house_hold/prosumer/house_hold_id=1&amount=100&token=validJWT

2.4 change_market_size

Description: Change the size of the market

- method : POST
- endpoint : /admin/tools/change_market_size
- parameters : token, id, size
- response : if request is successful - Changing market size to [INFO], Unauthorised, Wrong request method

Example: HOST:5000/admin/tools/change_market_size?token=validJWT&id=adminid&size=1000

2.5 get_house_hold_data*

Description: Get a house holds data

- method : GET
- endpoint : /data/house_hold=<int:id>token=<string:token>
- parameters : token, id
- response : json containing [INFO] , Unauthorised, Wrong request method

Example: HOST:5000/data/house_hold=1&token=validJWT

2.6 register*

Description: Registers a user

- method : POST
- endpoint : /register/username=<string:username>&password=<string:password>&email=<string:email>&address=<string:address>&zipcode=<string:zipcode>&prosumer=<int:prosumer>
- parameters : username, password, email, address, zipcode, prosumer
- response : -1 if failed, 1 if success

Example: HOST:5000/register/username=ben&password=%242b%2410%243ha4%2FaS83a7Mhc5XRkSqyOwzo0rV%2Fx8KNZeekiWOlz%2FoHLu1pnQee&email=bob@hotmail.comaddress=grondalsvagen+110zipcode=117+69prosumer=1

This will create a user bob with password 123qwe who is a prosomer living on grondalsvägen 110 zipcode 117 69.

2.7 login*

Description: Login a user

- method : POST
- endpoint : /login/username=<string:username>
- parameters : username
- response : -1 if failed, 1 if success

Example: HOST:5000/login/username=name

2.8 admin_login*

Description: Login admin

- method : POST
- endpoint : /admin/login/username=<string:username>
- parameters : username
- response : -1 if failed, 1 if success

Example: HOST:5000/admin/login/username=name

2.9 remove_user

Description: Remove a user

- method : POST
- endpoint : /admin/tools/remove_user
- parameters : token, id, target
- response : 0 if no change was made. Returns 1 if change was made, Unauthorised or bad request, Wrong request method

Example: HOST:5000/admin/tools/remove_user?target=userid&id=adminid&token=validJWT

2.10 block_user

Description: Block a user from trade

- method : POST
- endpoint : /admin/tools/block_user_from_trade
- parameters : token, id, cycle, target
- response : if cycle < 0 - You need a pos int!, On succ - id blocked for cycle cycles, Unauthorised, Wrong request method

Example: HOST:5000/admin/tools/block_user_from_trade?target=1&cycle=10&id=adminid&token=validJWT

2.11 get_market_data

Description: Get market data

- method : GET
- endpoint : /data/get_market_data
- parameters : None
- response : json containing [INFO]

Example: HOST:5000/data/get_market_data

2.12 change_buffert_to_market*

Description: Change ratio of produced output to market

- method : POST
- endpoint : /change_buffert/house_hold=<int:id>&amount=<int:amount>&token=<string:token>
- parameters : token, id, amount
- response : if request isnot legit - You cant do that, on succ - Sending amount to market, if not alode - User not found or not alode to change buffert, Unauthorised, Wrong request method

Example: HOST:5000/change_buffert/house_hold=1&amount=100&token=validJWT

2.13 uploader

Description: Upload a picture to a user or admin

- method : POST
- endpoint : /uploader
- parameters : type, token, id, file
- response : Picture successfully uploaded, No file part, No selected file, Unauthorised, Wrong method

Example: HOST:5000/uploader?type=admin&id=adminid&token=validJWT&data=data (Data is a FormData containing the userid and the picture file.)

2.14 admin_view

Description: Get all user data if admin

- method : GET
- endpoint : /admin/tools/view
- parameters : token, id
- response : json containing all user data, Unauthorised, Wrong request method

Example: HOST:5000/admin/tools/view?token=validJWT&id=adminid

2.15 get_user_pic

Description: Retrieves the file name of the users picture

- method : GET
- endpoint : /get_user_pic
- parameters : token, id
- response : Picture stored in database as base 64, Unauthorised, Wrong request method

Example: HOST:5000/get_user_pic?id=adminid&token=validJWT&type=admin

2.16 change_user_info

Description: Admin can change a users cred

- method : POST
- endpoint : /admin/tools/change_user_info
- parameters : token, id, target_id, user_name, password, email, address, zipcode, prosumer, user_pic, target_row
- response : 1 if success, 0 if no change, Unauthorised or bad request, Wrong request method

Example: HOST:5000/admin/tools/change_user_info?token=validJWT
&id=adminid&target_id=1&target_row=email&email=ihavemail@gmail.com

2.17 change_market_price

Description: Admin can change what the market price is.

- method : POST
- endpoint : /admin/tools/change_market_price
- parameters : token, amount, id
- response : Market price changed, Unauthorised, Wrong request method

Example: HOST:5000/admin/tools/change_market_price?market_price=100&id=adminidtoken=validJWT

2.18 admin_change_power_ratio

Description: Changes how much of the power plants power should be sent to its buffer or the market.

- method : POST
- endpoint : /admin/tools/change_power_ratio
- parameters : token, target, id
- response : if < 0 - Must be positive, if plant not found - Powerplant not found, Unauthorised, Wrong request method

Example: HOST:5000/admin/tools/change_power_ratio?ratio=0.5&id=adminid&token=validJWT&target=1

2.19 admin_view_power_plants

Description: Show information on power plants in the simulation.

- method : GET
- endpoint : /admin/tools/view_power_plants
- parameters : token, id
- response : if success return json, Unauthorised, Wrong request method

Example: HOST:5000/admin/tools/view_power_plants?id=adminid&token=validJWT

2.20 admin_send_to_market

Description: Sends a amount of the power plants buffer to the market.

- method : POST
- endpoint : /admin/tools/send_to_market
- parameters : token, id, amount
- response : if < 0 - Must be positive, if selling more then have - Cant sell more then curret content, on success - Sent power to market, if plant not found - Powerplant not found, Unauthorised, Wrong request method

Example: HOST:5000/admin/tools/send_to_market?target=1&id=adminid&token=validJWT&amount=1