## Filtering RESTful APIs

This is document is still a work in progress and is subject to change．
All filters will be available via the url querystring．This will allow users to be able use a standard web browser to make a request．

## Filter format

A filter contains 3 parts separated by pipes（＂｜＂）：
1．Field Name
2．Operator
3．Value
https：／／＜base api url＞／＜api method＞？apikey＝＜apikey＞\＆filter＝＜field1＞｜＜operator＞｜＜value1＞； ＜field2＞｜＜operator＞｜＜value2＞；＜field3＞｜＜operator＞｜＜value3＞

## Example

https：／／ehsapi．fldata．com／api／v1／users？apikey＝12345\＆filter＝lastname｜eq｜Smith
The above request would return all users in the database that have a last name of Smith．

## Multiple Filters

Multiple filters are separated by semi－colons．When multiple fields are used in a filter they will always be AND＇d together．

## Example

https：／／ehsapi．fldata．com／api／v1／users？apikey＝12345\＆filter＝lastname｜eq｜Smith；birthday｜lt｜ 2001－01－01

Assuming today＇s date is 2022－01－01．The above request would return any users with the last name of Smith and are 21 or older．

## Operators／Equality Functions

To allow for more than simple equality filtering we will implement the following operators．
－eq－equal
－ne－not equal

## FRONTLINE <br> DATA SロLUTIロNS

- gt - greater than
- gte - greater than or equal to
- It - less than
- Ite - less than or equal to
- in -compares a field value to an array of values.
- notin -compares a field value to an array of values.
- contains - searches for text within a field
- startswith - compares the starting characters of a text field with the supplied value
- endswith - compares the ending characters of a text field with the supplied value


## Examples

- Find all users with a first name of John or Jane
- filter=firstname|in|John,Jane
- Find all users that do not have a John or Jane as their first name
- filter=firstname|notin|John,Jane
- Find all MOCs that were completed in Q1 of 2022
- filter=compeltedOn|gte|2022-01-01;completedOn|Ite|2022-0331;status|eq|closed

