SWDV-691: Software Development Capstone

PoolPal Design: Service Layer(s)

User: all of the user-specific information

Verb	Route	Description
GET	/api/users	Returns a list of all users, their chemicals, and readings history

Example successful response:

```
" id": "5f9593a81acbe43fdbe6e4e9",
"user name": "kylekanderson",
"email": "kanderson8@live.maryville.edu",
"password": "q;ciermnwp$SJ3J2&#MI",
"name": "Kyle Anderson",
"pool type": "Fiberglass",
"chemicals": [
        " id": "5f9593a81acbe43fdbe6e4ea",
        "ph up": "Soda Ash",
        "ph down": "Dry Acid",
        "alkalinity up": "Sodium Bicarbonate",
        "alkalinity down": "Muriatic Acid",
        "calcium up": "Calcium Chloride",
        "calcium down": "Dry Acid"
```

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Example error response: Could not GET /users

POST /api/users Creates a new user object

Example request body:

```
"user_name": "kylekanderson",
   "email": "kanderson8@live.maryville.edu",
   "password": "q;ciermnwp$SJ3J2&#MI",
   "name": "Kyle Anderson",
   "pool_gallons": 10000,
```

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```
"pool type": "Fiberglass"
Example successful response:
   " id": "5f9593a81acbe43fdbe6e4e9"
Example error response:
Could not POST /users
                                    /api/users
PUT
                                                                         Updates a user object
Example request body:
  " id": "5f9593a81acbe43fdbe6e4e9",
  "user name": "kylekanderson",
  "email": "kanderson8@live.maryville.edu"
Example successful response:
" id": "5f9593a81acbe43fdbe6e4e9" updated successfully
Example error response:
Could not update " id": "5f9593a81acbe43fdbe6e4e9"
```

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DELETE	/api/users	Deletes a user object		
Example request body:				
<pre>{ "_id": "5f9593a81acbe43fdbe6e4e9" }</pre>				
Example successful response:				
"_id": "5f9593a81acbe43fdbe6e4e9" deleted successfully				
Example error response:				
Could not delete "_id"	: "5f9593a81acbe43fdbe6e4e9"			

Chemicals: chemical-specific information

Verb	Route	Description	
GET	/api/chemicals	Returns a list of all chemicals and their effect on water chemistry	
Example successful response:			

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```
" id": "5f9593a81acbe43fdbe6e4e9",
  "name": "Tri-Chlor",
  "quantities": [
       "chemical": [
           "amount": 3.4,
           "units": oz
       ],
       "adjustment": [
           "amount": 1,
           "units": ppm
       ],
       "water volume": 1000
Example error response:
Could not GET /chemicals
POST
                                    /api/chemicals
                                                                        Adds a chemical object
Example request body:
  "name": "Tri-Chlor",
  "quantities": [
       "chemical": [
           "amount": 3.4,
```

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```
"units": oz
        "adjustment": [
             "amount": 1,
Example successful response:
   " id": "5f9593a81acbe43fdbe6e4e9"
Example error response:
Could not POST /chemicals
PUT
                                         /api/chemicals
                                                                                 Updates a chemical object
Example request body:
   " id": "5f9593a81acbe43fdbe6e4e9",
  "name": "Di-Chlor"
Example successful response:
```

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```
id": "5f9593a81acbe43fdbe6e4e9" updated successfully
Example error response:
Could not update "_id": "5f9593a81acbe43fdbe6e4e9"
                                                                        Deletes a chemical object
DELETE
                                    /api/chemicals
Example request body:
  " id": "5f9593a81acbe43fdbe6e4e9"
Example successful response:
" id": "5f9593a81acbe43fdbe6e4e9" deleted successfully
Example error response:
Could not delete " id": "5f9593a81acbe43fdbe6e4e9"
```