JWT = JSON Web Token

**NOTE: We must include composer.json, composer.lock, and the vendor folder (and all its contents) in the same folder as all the API calls. All necessary files can be found in “apiWithJWT” folder on temp branch of github.**

Now that JWT has been implemented, we no longer need to keep track of user\_id.

Why? Because user\_id is inside the JWT payload.

JWT acts as a key for the user after they log in. JWT will expire after an hour of idle time, after which the user will need to re-login.

Every time the user uses a protected resource, say, search. After the API verifies the JWT authenticity, it will do the search query, return the search results, and return a **new** JWT with a **new** expiration time.

Every time a JWT is returned, it will come with an expireAt, which is the current time, in seconds, + 3600 seconds. Please return the expireAt with the JWT when the user wants to do something that interacts with the API.

After receiving a new JWT, delete the old one. When the user logs out, simply delete the current JWT from their cookies.

“API with JWT Doc” has all the required inputs and likely outputs for each API call.

If there is an error in “API with JWT Doc”, please let me know.

Trevor pointed out that getOneContact.php was useless, and I agree, so I have not updated it with JWT.

Lastly, with search.php and getAllContact.php, they both return a 2D array inside an array.

Here is one way to access the arrays in PHP, which will likely have a similar method in JavaScript:

$input\_JSON = file\_get\_contents('php://input');

    $input = json\_decode($input\_JSON, TRUE);

    $contacts = $input['contacts'];

    echo $contacts[2]['contact\_id'];

After decoding the json file, extract the contacts array from input. Then you can access the different contact\_id’s with 0, 1, 2, etc.

I think you can also do a foreach loop, if that exists in JS. Foreach probably does exist in JS.

Output would be: 45

For this JSON file:

{

"status": 0,

"message": "Successfully got all contacts.",

"contacts": [

{

"contact\_id": 42,

"user\_id": 35,

"name": "True Bear",

"phone": "222 222 2222",

"address": "123 bear ridge rd",

"website": "www.truebear.com",

"email": "yasbear@gmail.com"

},

{

"contact\_id": 44,

"user\_id": 35,

"name": "Pringles",

"phone": null,

"address": null,

"website": null,

"email": null

},

{

"contact\_id": 45,

"user\_id": 35,

"name": "Bigchew",

"phone": null,

"address": null,

"website": null,

"email": null

}

],

"jwt": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOm51bGwsImlhdCI6MTU2OTE1OTgzNCwibmJmIjoxNTY5MTU5ODM0LCJleHAiOjE1NjkxNjM0MzQsImRhdGEiOnsiZV9pZCI6ImZ1ND0iLCJpdiI6IkZUNmdRVnQrVXJJZVlpa1kiLCJ0YWcxIjoiXC9yNFh3cVpQMHBMWU1SS2lNcll0Qnc9PSJ9fQ.-ylyAYMfzINns603H--5VOxpKhxwZuxIhgXWzqLbtkI",

"expireAt": 1569163434

}