1) What is the purpose of the code at lines 26->29.

* Line 26 allows any client to access the rest api
* Line 27 allows the specified methods to call the rest api (GET,POST,PUSH,OPTIONS)
* Line 28 tells that the rest api can accept json
* Line 29 allows the content-type header to be present on the request to the rest api

2) Is it an issue that these headers are always sent instead of just for an OPTIONs request?

* These are necessary to prevent CORS issues from the client’s request, enabling all the desired request methods and the correct request types.

3) Why is line 57 there -> and don't just copy the comment, give a longer description

* There is a leading “/” to the path that is turned into a “” in the explode method call, rendering the first index as useless. This line gets rid of the index we have no need for

4) What is the purpose of the code at linkes 62->64. Why does it NOT output any JSON data?

* This is done so clients are able to ask the rest api for its headers

5) What is the purpose of the code at lines 66->70

* This code will provide the client with an invalid request 20% of the time (20/100)

6) When sending back an error at line 99, should there be an exit immediately after line 99?

* There should be an exit after line 99 because if we get an error decoding the json then we can’t make use of what was given and call any of the methods present below this point.

7) Lines 134 and 135 poorly implement error handling. Discuss why and propose better code.

* The client will receive absolutely no information in the for if something goes wrong in the add to the SQL database, the json will return as if everything is okay.

8) the use of a series of separate if's (if, if, if) is generally poor practice when compared to if,elseif,elseif,elseif,else. Why is it acceptable in this case?

* There is no danger of doing chained ifs in this case, as there is only one method applicable for any given if statement. We have no danger of executing multiple calls. For the sake of speed, this is still much worse than not doing it, but it is not going to result in problematic behavior.

9) Assume I want to require an API key to this code. Assume that the file API\_KEYS.php exists and contains the line:

$api\_keys=array("key1","key2","key3");

provide code that I could add to this php program that would require the client to provide the key. Tell me where to place the code and then provide the code to be added to this program.

include “API\_KEYS.php”;

Should go at the top, right under “include ‘info.php’”

Prior to line 62, we could write a line that goes something like this

$valid = false;

if(!isset($\_REQUEST[‘api-key’])) {

sendJson("FAIL","No API key provided");

exit;

}

$user\_api\_key = $\_REQUEST[‘api-key’];

foreach($api\_keys as $var){

if($user\_api\_key == $var){

$valid = true;

break;

}

}

if(!$valid){

sendJson("FAIL","API key not valid");

exit;

}