**NOTE:** We might implement hashing/encryption soon. So, keep that in mind.

**NOTE:** status == 0, means no errors, status > 0, means there was an error

Example: We would hash username, then hash password, then encode them into JSON and send it.

Inputs and Outputs are named exactly as written

Outputs can be null if the input was null (e.g.: User creates contact but only fills in name field. When getting contact, the phone, address, website, and email will return as null)

Let me know if there are any errors and if you think anything with the required input and output needs to be modified (e.g.: X output should include password)

Some API calls output a JSON with an **array inside**. (e.g.: searchContact.php output: user\_id, search, search\_results = {contact\_id, name, phone, address, website, email}, status, and message would mean that there is an array named search\_results, with X amount contact\_id, name, phone, address, website, and email variables inside.)

**dbConnection:**

* purpose: connect to the db
* **Do not call this in the front end**

**functions:**

* purpose: store some functions
* **Do not call this in the front end**
* For those interested:
* **Why salt and hash a password?**
* Protects password if there is a database breach
* Even when two users choose the same password, the salt prevents the hashed passwords from being the same
* **How to salt and hash a password**
* Choose a length for the random salt, which should be long, we use 32
* In getSalt function, we generate a random hexadecimal string
* Concat first half of salt onto front of password, concat second half of salt onto end of password
* Use php’s password\_hash function to generate a hashed password
* store both hashed pass and salt into DB
* We can verify whether password matches with hashed and salted password with php’s password\_verify function

**createUser:**

* **required input:** username, password, and full\_name
* **output:** username, full\_name, status, and message

**loginUser:**

* **required input:** username and password
* **output:** username, user\_id, full\_name, created\_date, status, and message

**editUser:**

* **required input:** user\_id
* **output:** user\_id, full\_name, status, and message

**createContact:**

* **required input:** user\_id and name
* **output:** user\_id, name, phone, address, website, email, status, and message

**editContact:**

* **required input:** contact\_id and name
* **output:** contact\_id, name, phone, address, website, email, status, and message

**deleteContact:**

* **required input:** contact\_id
* **output:** name, status, and message

**searchContact:**

* **required input:** user\_id and search
* **output:** user\_id, search, search\_results = {contact\_id, name, phone, address, website, email}, status, and message

**getAllContact:**

* **required input:** user\_id
* **output:** user\_id, contacts = {contact\_id, name, phone, address, website, email}, status, and message

**getOneContact:**

* **required input:** contact\_id
* **output:** contact\_id, name, phone, address, website, email, status, and message