

CGT 356 Project 2

Aaron Eads – Arielle Ramjattan – Epifanio Sadural – Tyler Simon

Application Programming Interface (API)

The API is accessed through JavaScript using AJAX requests. The server returns a JSON object with two fields, **success** and **error**.

PHP Example

```
header('Content-Type: application/html');
json_encode(array('success' => $success, 'error' => $error));
exit;
```

JavaScript Example

```
$.get('api/user_login.php', params, function (result) {
    if (result.success) {
        // API request was successful
    }
    else {
        // API request was unsuccessful
        $('#error-msg').text(result.error);
    }
});
```

API Functions

	Name (.php)	Parameters	Method	Permissions
User	user_login	userId password	POST	Curator
	user_logout		GET	Curator
	user_create	username password firstName lastName categoryId	POST	Admin
	user_update	userId updateId <i>username</i> <i>password</i> <i>firstName</i> <i>lastName</i>	POST	Curator
	user_delete	userId deleteId	POST	Admin
	Name (.php)	Parameters	Method	Permissions
Image	image_create	userId file categoryId <i>description</i>	GET	Curator
	image_update	userId imageId <i>file</i> <i>description</i>	GET	Curator
	image_delete	userId imageId	GET	Curator

API Functions (cont'd)

	Name (.php)	Parameters	Method	Permissions
Category	category_create	userId name description	GET	Admin
	category_update	userId categoryId <i>name</i> <i>description</i>	GET	Curator
	category_delete	userId categoryId	GET	Admin

PHP Conventions

Queries

All MySQL queries are conducted using prepared statements to prevent SQL injections.

Prepared Statement Example

```
$db = db_connect(); // Create link to database

$stmt = $db->prepare('SELECT * FROM images WHERE ImageId=?');
$stmt->bind_param('i', $imageId);
$stmt->execute();

$result = $stmt->get_result();

while ($row = $result->fetch_assoc()) {
    // Do something for each row
}

$stmt->close();
$db->close();
```

Naming

Naming of common variables are consistent between all .php files.

Variable name	Description	Example
<code>\$db</code>	Database link	<code>\$db = mysqli_connect(...);</code>
<code>\$stmt</code>	Prepared statement	<code>\$stmt = mysqli_prepare(...);</code>
<code>\$result</code>	Query result	<code>\$result = \$stmt->get_result();</code>
<code>\$userId</code>	Session user's ID	<code>\$userId = \$_GET['userId'];</code>
<code>\$imageId</code>	Image ID	<code>\$imageId = \$_GET['imageId'];</code>
<code>\$categoryId</code>	Category ID	<code>\$categoryId = \$_GET['categoryId'];</code>
<code>\$success</code>	API success result	<code>\$success = true;</code>
<code>\$error</code>	API error result	<code>\$error = 'Username already taken';</code>

Includes

Each page includes a **header** (header.php) and **footer** (footer.php). Additionally, each page includes **scripts** (scripts.php) which includes jQuery and other scripts needed on every page.

Example

```
<?php include 'header.php' ?>

<div id="page-content">
    <!-- Page content... -->
</div>

<?php include 'scripts.php' ?>

<script>
    // Custom page script...
</script>

<?php include 'footer.php' ?>
```

Pages

All Users

- Index
- View Gallery (all)
- View Gallery (single)
- View Image (all)
- View Image (single)
- Login

Curator

- Curator Dashboard
- Edit gallery (single)
- Edit image

Admin

- Admin Dashboard
- Edit curator (all)
- Edit gallery (all)