CGT 356 Project 2

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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

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

JavaScript Example

```javascript
$.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** **passwordHash**	POST	Curator
	user_logout		GET	Curator
	user_create	**username** **passwordHash** **firstName** **lastName** **categoryId**	POST	Admin
	user_update	**userId** **updateId** *username* *passwordHash* *firstName* *lastName*	POST	Curator
	user_delete	**userId** **deleteId**	POST	Admin
	Name (.php)	**Parameters**	**Method**	**Permissions**
Image	image_create	**userId** **file** **categoryId** *description*	GET	Curator
	image_update	**userId** **imageId** *file* *description*	GET	Curator
	image_delete	**userId** **imageId**	GET	Curator

	Name (.php)	Parameters	Method	Permissions
Category	category_create	**userId** **name** **description**	GET	Admin
	category_update	**userId** **categoryId** *name* *description*	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

```php
$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
$db	Database link	$db = mysqli_connect(…);
$stmt	Prepared statement	$stmt = mysqli_prepare(…);
$result	Query result	$result = $stmt->get_result();
$userId	Session user's ID	$userId = $_GET['userId'];
$imageId	Image ID	$imageId = $_GET['imageId'];
$categoryId	Category ID	$categoryId = $_GET['categoryId'];
$success	API success result	$success = true;
$error	API error result	$error = 'Username already taken';

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
<?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)