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# SERVER-SIDE WEB DEVELOPMENT

## Lecture 3

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# TODAY'S TOPICS



- Predefined Variables
- Includes
- **Participation:** aMazing Adventure
- **Exercise:** Functional Fishing

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# ANNOUNCEMENTS



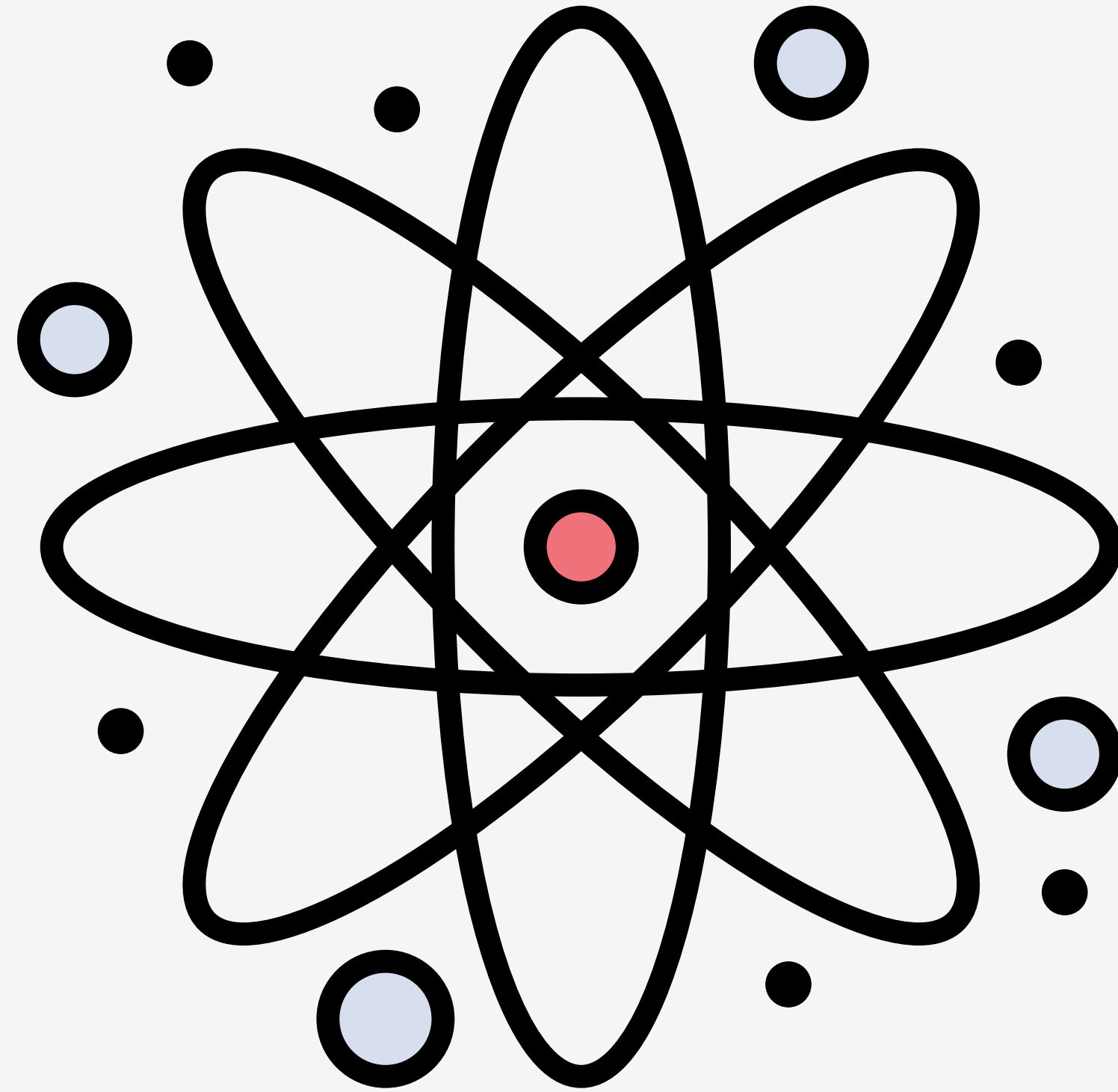
- Sign-in Sheet
- Recording

**QUESTIONS**

# DYNAMIC PAGES

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# MULTIDIMENSIONAL ARRAYS

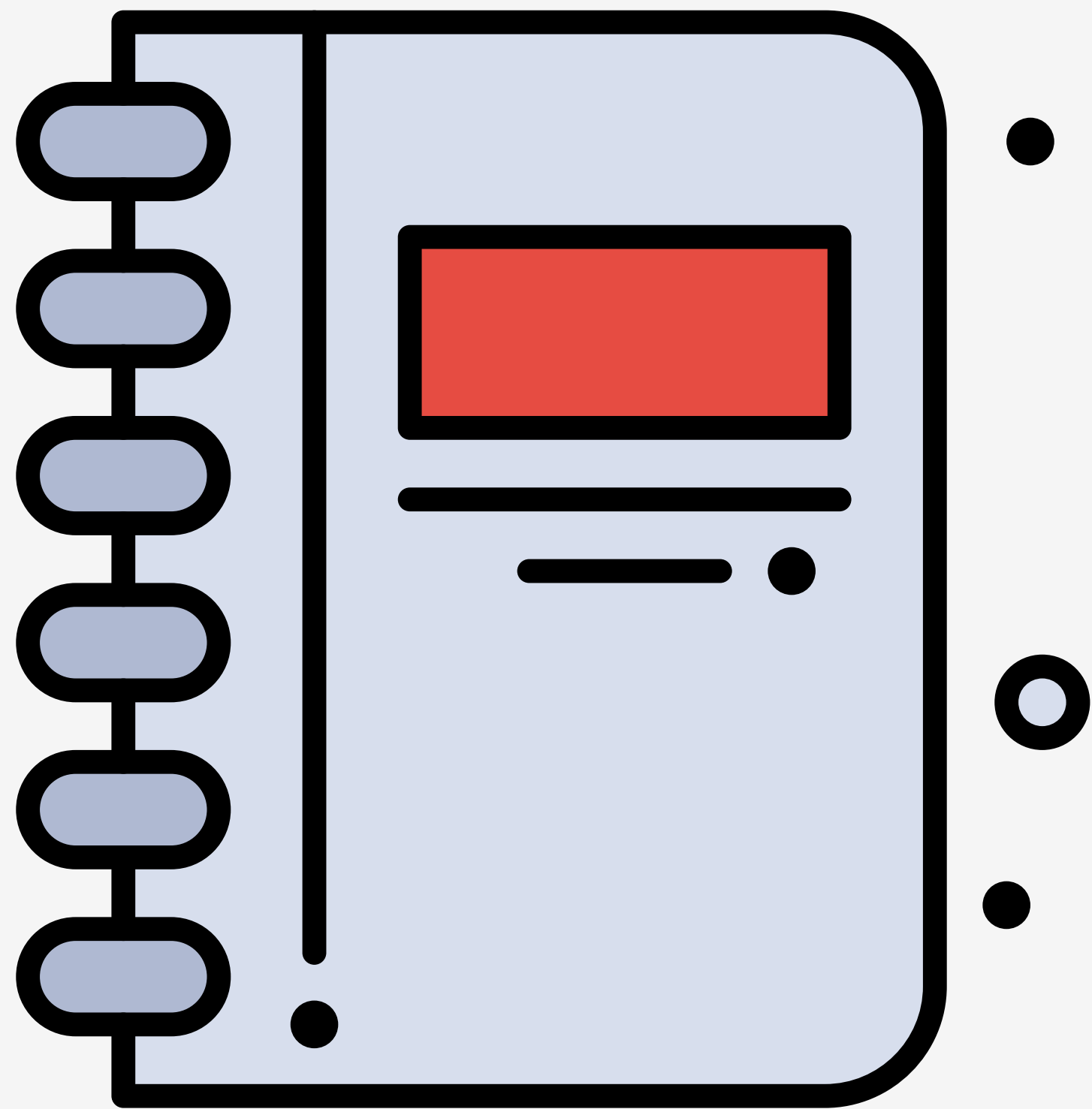


- Arrays can contain other arrays
- With each nested array, another level of notation is required
- Multidimensional arrays are very common in PHP

# ARRAYS

```
<?php
$contacts = [
    [
        "name" => "Corine Sweet",
        "email" => "corine.sweet@buzzness.info"
    ],
    [
        "name" => "Gillespie Santiago",
        "email" => "gillespie.santiago@goko.com"
    ]
]
```

# \$\_GET



- An associative array of variables passed in the query string
- These variables can be from an form using the **GET** method or directly entered in the browser
- The **\$\_GET** array is often used to load different data to the same template



**\$\_GET**

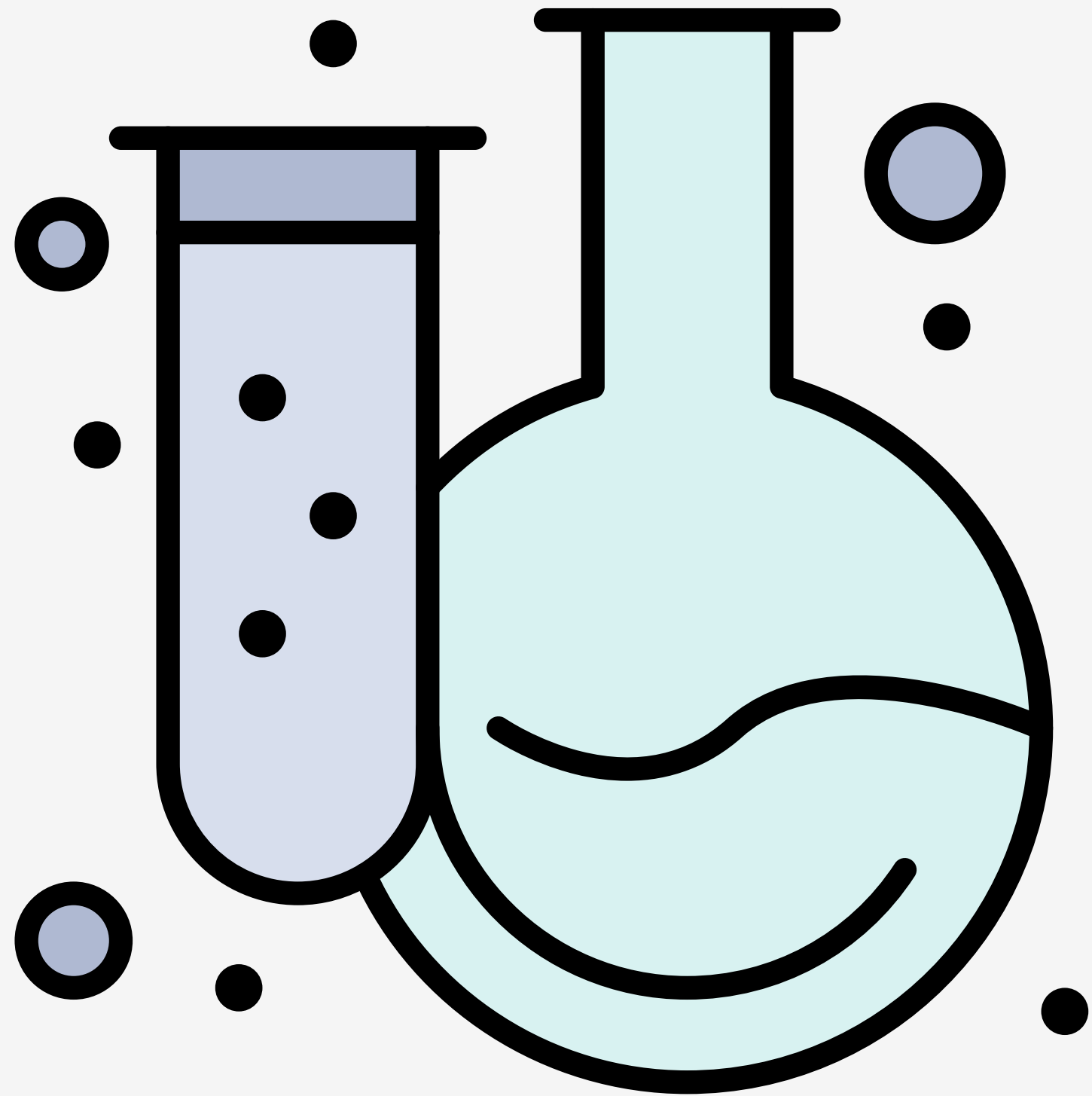
```
<?php
// index.php?name=Michael

echo $_GET['name']; // Michael
```

**HANDS-ON**

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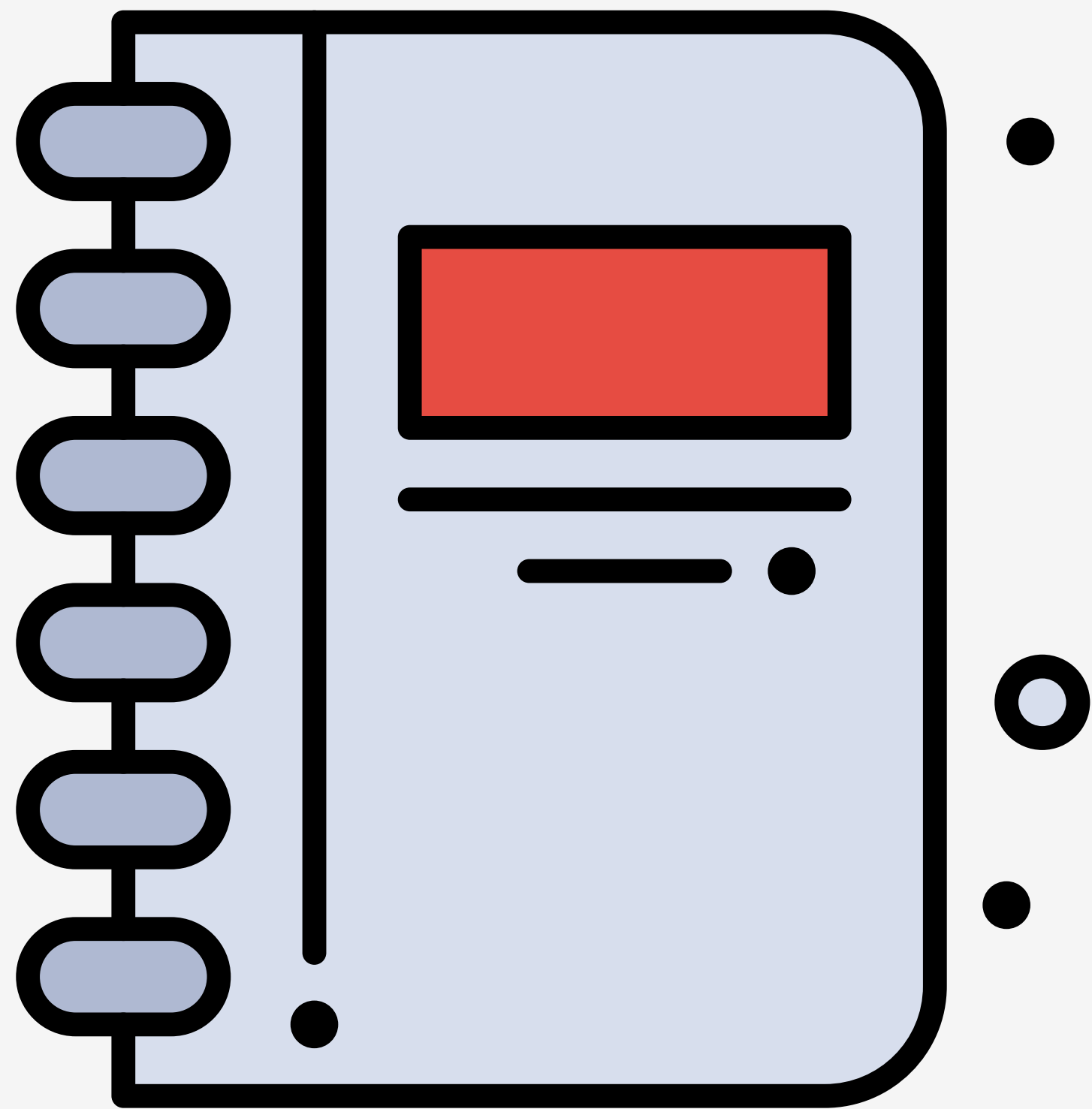
# AMAZING ADVENTURE



- *GITHUB CLASSROOM ASSIGNMENT*
- Create an associative array will represent each room
- On the `index.php` page, display the current room's description and actions
- Use a URL variable to create the actions links
- Use `$_GET` to retrieve the current room's information
- Submit your repository URL
- *DUE:* Mon. Jan. 20 @ 11:59 PM

# FORM HANDLING

# \$\_POST



- An associative array of variables passed via the **POST** method
- These variables typically come from a form or an Ajax call using the **POST** method
- The **\$\_POST** array is often used to retrieve secure information from the user

# \$\_POST

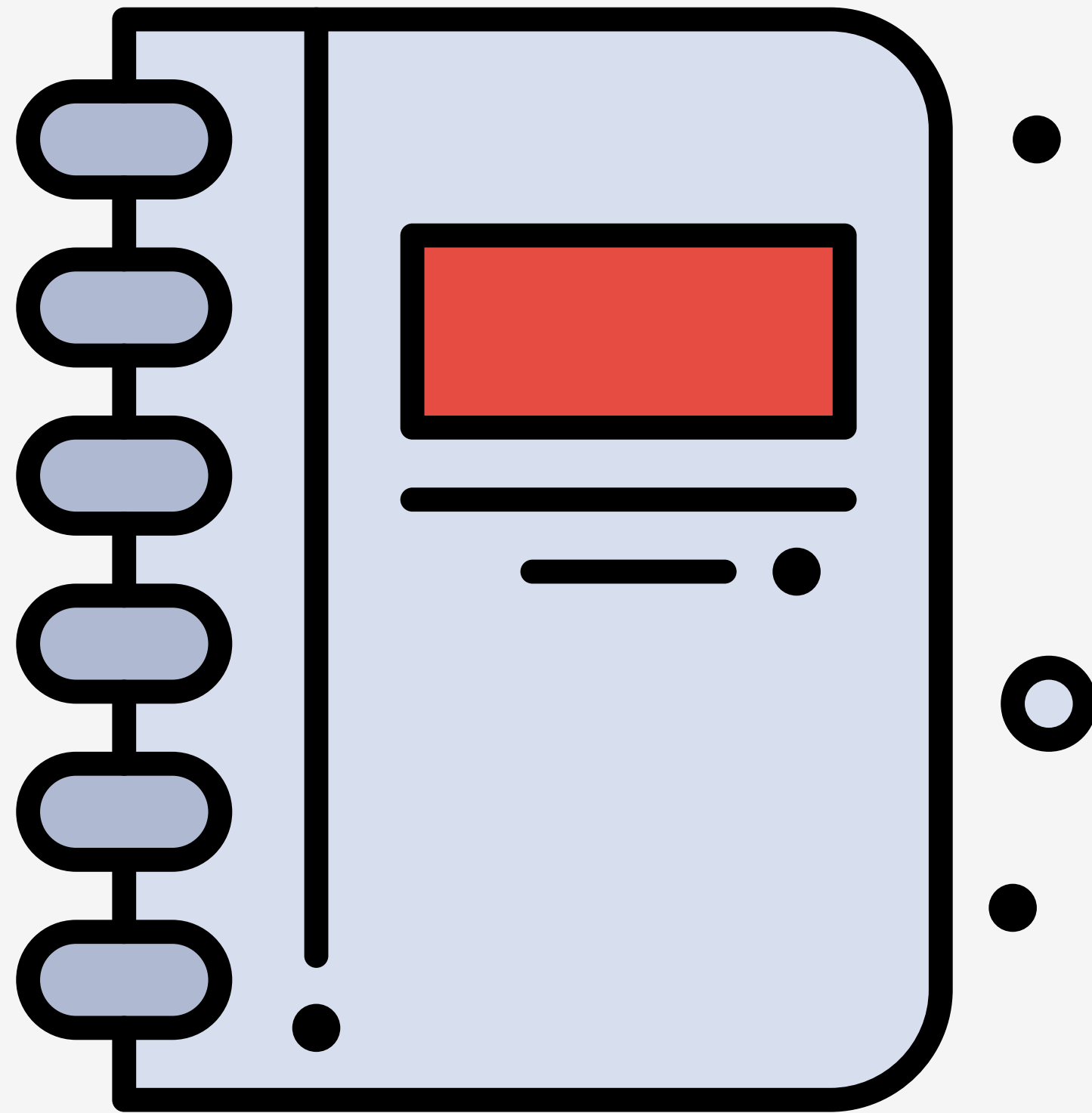
```
<form method="post">  
  <input type="text" name="username"  
    value="eisenbm">  
</form>
```

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```
<?php  
echo $_POST['username']; // eisenbm
```

# SESSIONS

# --- \$\_SESSION



- A **session** is a way to store information across multiple page.
- The session data is store on the web server, not the user's computer
- The **session\_start()** function must be called to use sessions in PHP
- **\$\_SERVER** is associative array containing the session variables available to the current script
- **\$\_SERVER** is also used to store new session variables or update existing one



# \$\_SESSION

```
<?php
// page1.php
session_start( );
$_SESSION['name'] = 'Michael';
header( 'Location: page2.php' );
```

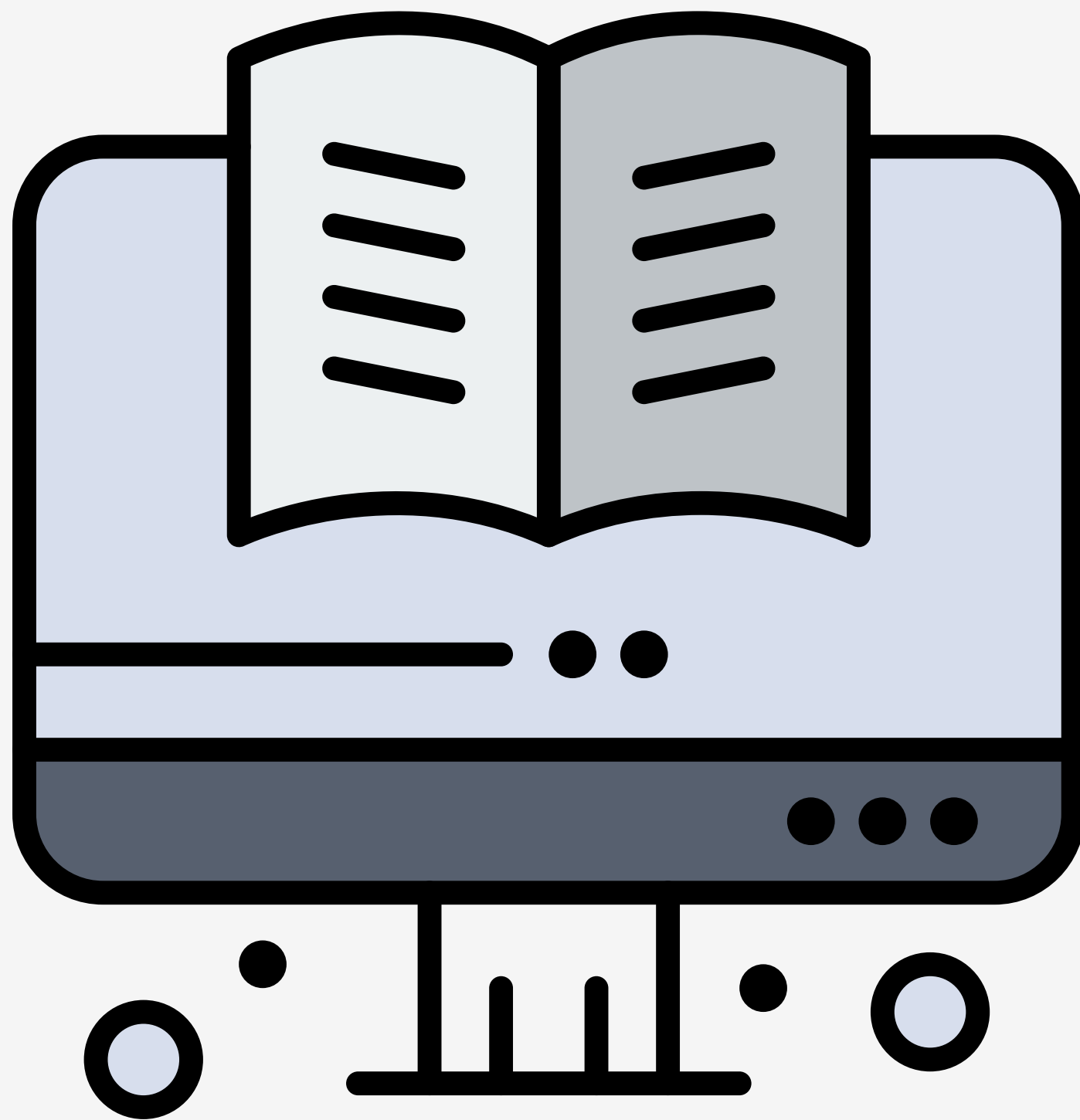
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```
<?php
// page2.php
session_start( );
echo $_SESSION['name']; // Michael
```

**INCLUDES**

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# INCLUDES



- PHP has statements which allow for external documents to be included into any PHP document
- These included documents can be `.php`, `.html`, `.css`, or `.js` files
- These statements are:
  - `include`
  - `include_once`
  - `require`
  - `require_once`

# INCLUDES

```
<?php
// includes file
include "settings.php";

// includes file only if not already included
include_once "head.html";

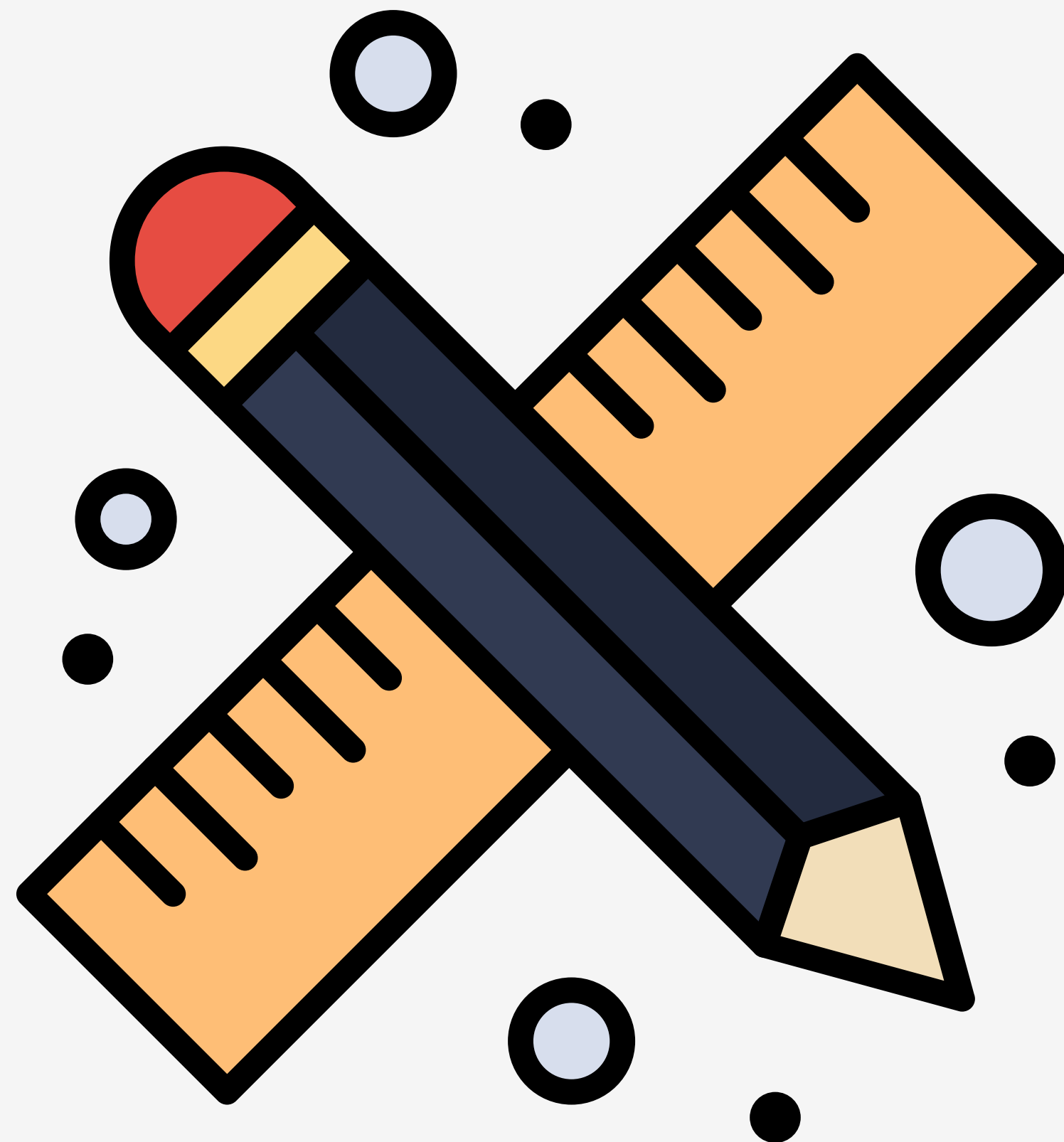
// throws error if not available
require "script.js";

// checks first, throws error
require_once "functions.php";
```

**HANDS-ON**

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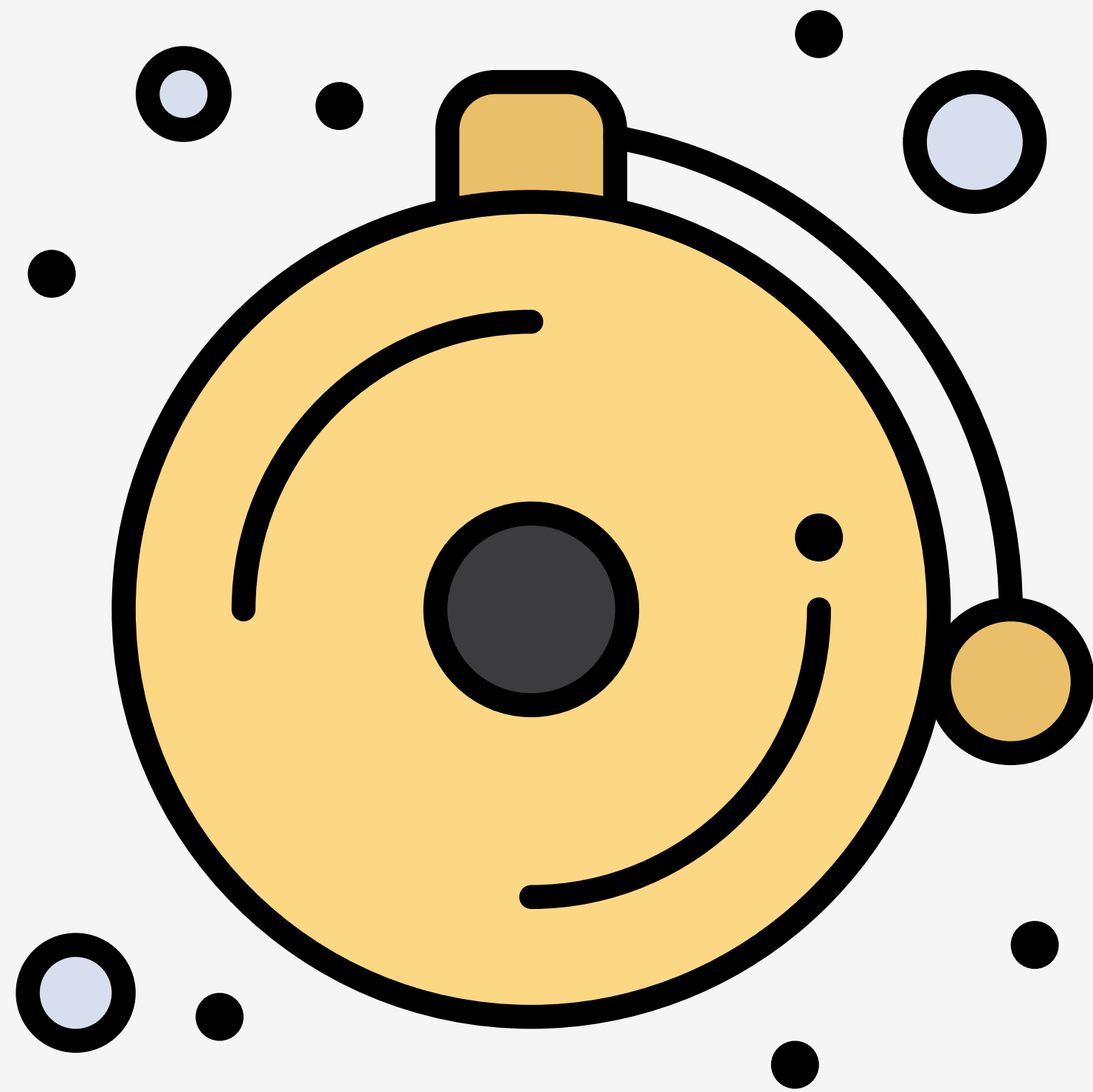
# FUNCTIONAL FISHING



- *GITHUB CLASSROOM ASSIGNMENT*
- Create an interactive game of Functional Fishing
- Use a session to store the game status
- Use a form and `$_POST` to get the player's commands
- Use the provided functions to complete the game
- *DUE:* Mon. Jan. 27 @ 11:59 PM

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# NEXT TIME...



- Databases
- SQL
- **Participation:** Movie Mayhem I
- **Participation:** Hybrid #2
- **Exercise:** Seussology DB I