Submission Worksheet

CLICK TO GRADE

https://learn.ethereallab.app/assignment/IT202-452-M2024/it202-module-2-php-problems/grade/mrs43

IT202-452-M2024 - [IT202] Module 2 PHP Problems

Submissions:

Submission Selection

1 Submission [active] 6/2/2024 9:04:33 PM

Instructions

COLLAPSE

Overview video: https://youtu.be/Vvx_cfdLqqM

Guide:

1. Make sure you're in the dev branch locally and `git pull origin dev` any pending changes.
2. Make a new branch per the recommended branch name below (`git checkout -b ...`).
3. Grab the template code from https://gist.github.com/MattToegel/48b48377eaa1937c886b7840c449750a.
4. Create individual PHP files for each problem and save the files inside your `public_html` folder in a subfolder of your choice.
    1. If you don't have this folder yet, refer to the setup lessons (you'll need a few files for the deployment to work).
5. Move the unedited template files to GitHub.
    1. `git add .`
    2. `git commit -m "adding template files"`
    3. `git push origin branch_name` (see below)
    4. Create and open a pull request from the homework branch to main (leave it open until later steps).
6. Note: As you work, it's recommended to add/commit at least after each solution is done (i.e., 3+ times in this case).
    1. Make sure the files are saved before doing this.
7. Fill in the items in the worksheet below (save as often as necessary).
8. Once finished, export the worksheet.
9. Add the output file to any location of your choice in your repository folder (i.e., a `Module2` folder).
10. Check that git sees it via `git status`.

11. If everything is good, continue to submit.
    1. Track the file(s) via `git add`.
    2. Commit the changes via `git commit` (don't forget the commit message).
    3. Push the changes to GitHub via `git push` (don't forget to refer to the proper branch).
    4. Create a pull request from the homework related branch to main (i.e., main <- "homework branch").
    5. Open and complete the merge of the pull request (it should turn purple).
    6. Locally checkout dev and pull the latest changes (to prepare for future work).
12. Take the same output file and upload it to Canvas.

Branch name: M2-PHP-Problems

Tasks: 6 Points: 10.00

● Problem 1 (3 pts.)

^COLLAPSE ^

● ^COLLAPSE ^

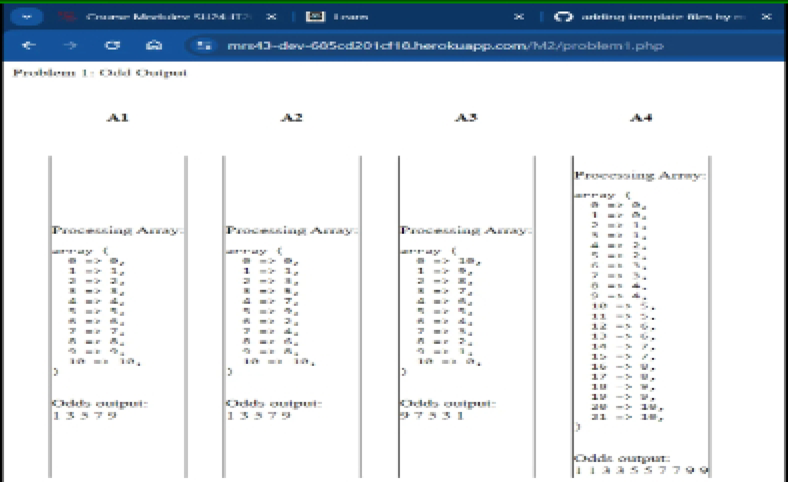
Task #1 - Points: 1

Text: Problem 1 Evidence

Details:
Only make edits where the template code mentions.

Solution should ensure that any passed in array will have only the odd values output.
Requires at least 2 screenshots (code + output from heroku dev)
Live URL must be Herokue Prod

#1) Show the output from heroku dev (url must be visible)



mrs43-dev-605cd201cf10.herokuapp.com/M2/problem1.php

Problem 1: Odd Output

```
        A1                     A2                     A3                     A4

                                                                      Processing Array:
                                                                      array (
                                                                        0 => 0,
                                                                        1 => 0,
                                                                        2 => 1,
                                                                        3 => 1,
                                                                        4 => 2,
Processing Array:      Processing Array:      Processing Array:         5 => 2,
array (                array (                array (                   6 => 3,
  0 => 0,                0 => 0,                0 => 10,                7 => 3,
  1 => 1,                1 => 1,                1 => 9,                 8 => 4,
  2 => 2,                2 => 3,                2 => 8,                 9 => 4,
  3 => 3,                3 => 5,                3 => 7,                 10 => 5,
  4 => 4,                4 => 7,                4 => 6,                 11 => 5,
  5 => 5,                5 => 9,                5 => 5,                 12 => 6,
  6 => 6,                6 => 2,                6 => 4,                 13 => 6,
  7 => 7,                7 => 4,                7 => 3,                 14 => 7,
  8 => 8,                8 => 6,                8 => 2,                 15 => 7,
  9 => 9,                9 => 8,                9 => 1,                 16 => 8,
  10 => 10,              10 => 10,              10 => 0,                17 => 8,
)                      )                      )                         18 => 9,
                                                                        19 => 9,
Odds output:           Odds output:           Odds output:              20 => 10,
1 3 5 7 9              1 3 5 7 9              9 7 5 3 1                 21 => 10,
                                                                      )

                                                                      Odds output:
                                                                      1 1 3 3 5 5 7 7 9 9
```

Caption (required) ✓

Describe/highlight what's being shown

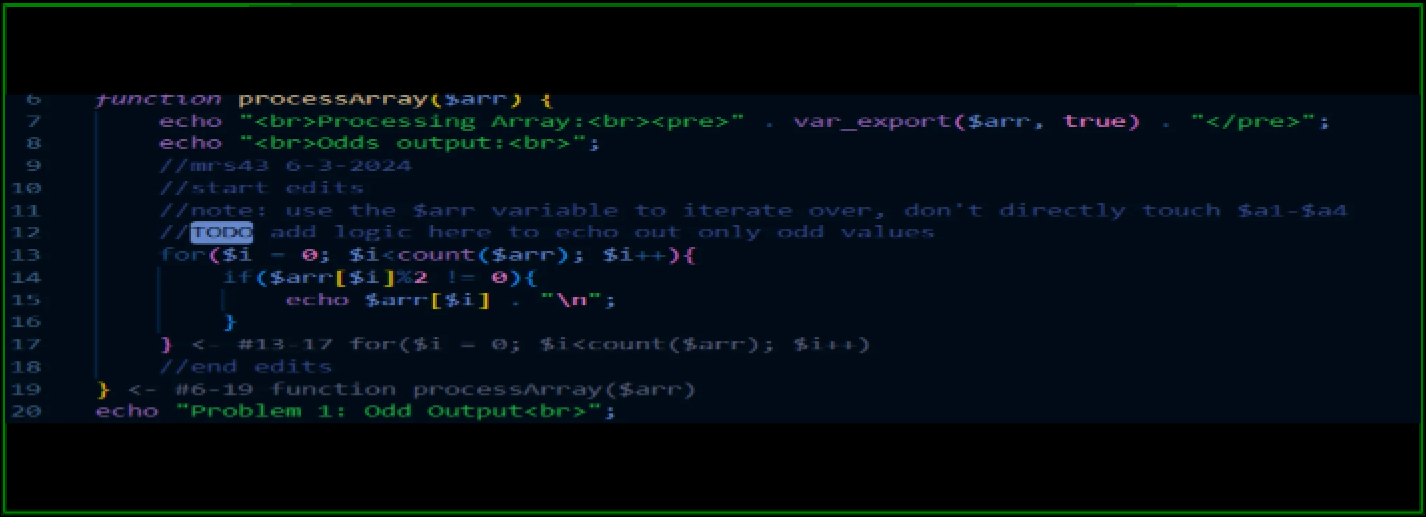
Showing output for Problem 1 in Heroku dev

URL (required) ✓

URL must be Heroku prod

https://mrs43-prod-5f0e0e79560e.herokuapp.com/M2/problem1.php

#2) Show the code solution (ucid/date as comment must be present)



```
 6    function processArray($arr) {
 7        echo "<br>Processing Array:<br><pre>" . var_export($arr, true) . "</pre>";
 8        echo "<br>Odds output:<br>";
 9        //mrs43 6-3-2024
10        //start edits
11        //note: use the $arr variable to iterate over, don't directly touch $a1-$a4
12        //TODO add logic here to echo out only odd values
13        for($i = 0; $i<count($arr); $i++){
14            if($arr[$i]%2 != 0){
15                echo $arr[$i] . "\n";
16            }
17        } <- #13-17 for($i = 0; $i<count($arr); $i++)
18        //end edits
19    } <- #6-19 function processArray($arr)
20    echo "Problem 1: Odd Output<br>";
```

Caption (required) ✓

Describe/highlight what's being shown

Showing code solved around line 13

Explanation (required) ✓

Explain in concise steps how this logically works

EDIT RESPONSE

I found the odd values by iterating through the arrays using a for loop. If a value in the array divided by two has a value other than one, that means it is odd. These values are then printed using the "echo" command.

● Problem 2 (3 pts.)

^COLLAPSE ^

● ^COLLAPSE ^

Task #1 - Points: 1

Text: Problem 2 Evidence

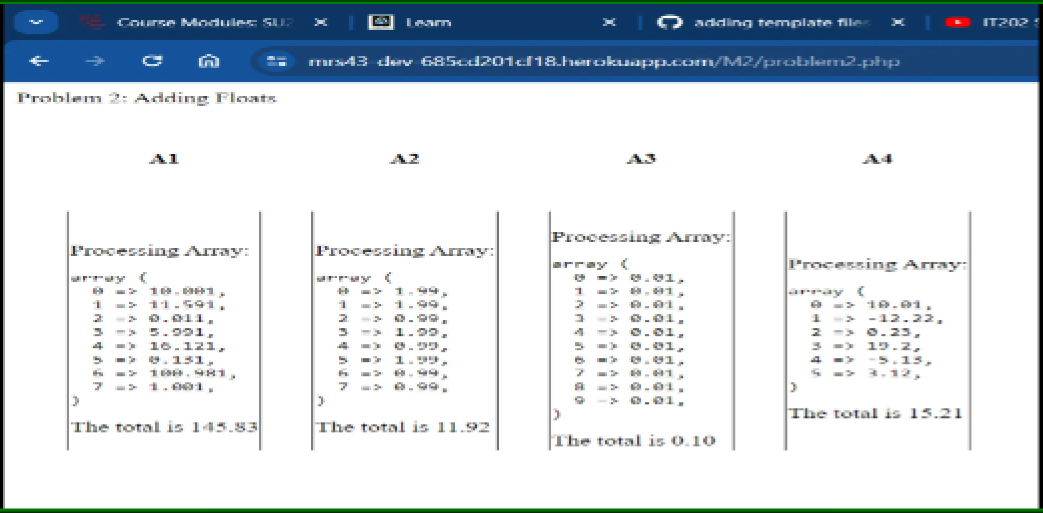
Details:

Details:

Only make edits where the template code mentions.

Solution should ensure that any passed in array will have the numerical values summed and rounded to two decimals (similar to currency)
Requires at least 2 screenshots (code + output from heroku dev)
Live URL must be Herokue Prod

#1) Show the output from heroku dev (url must be visible)



Problem 2: Adding Floats

A1

```
Processing Array:
array (
  0 => 10.001,
  1 => 11.591,
  2 => 0.011,
  3 => 5.991,
  4 => 16.121,
  5 => 0.131,
  6 => 100.981,
  7 => 1.001,
)
The total is 145.83
```

A2

```
Processing Array:
array (
  0 => 1.99,
  1 => 1.99,
  2 => 0.99,
  3 => 1.99,
  4 => 0.99,
  5 => 1.99,
  6 => 0.99,
  7 => 0.99,
)
The total is 11.92
```

A3

```
Processing Array:
array (
  0 => 0.01,
  1 => 0.01,
  2 => 0.01,
  3 => 0.01,
  4 => 0.01,
  5 => 0.01,
  6 => 0.01,
  7 => 0.01,
  8 => 0.01,
  9 => 0.01,
)
The total is 0.10
```

A4

```
Processing Array:
array (
  0 => 10.01,
  1 => -12.22,
  2 => 0.23,
  3 => 19.2,
  4 => -5.13,
  5 => 3.12,
)
The total is 15.21
```

Caption (required) ✓

Describe/highlight what's being shown

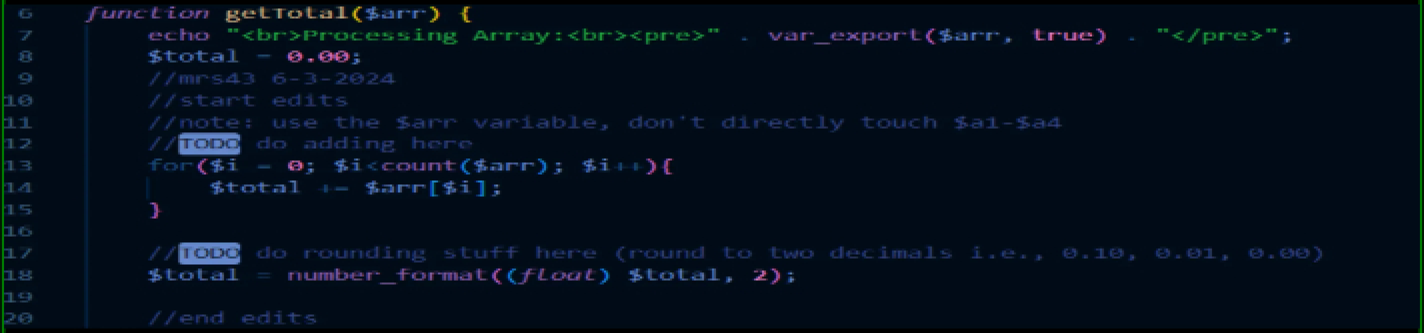
Showing output for Problem 2 in Heroku dev

URL (required) ✓

URL must be Heroku prod

https://mrs43-prod-5f0e0e79560e.herokuapp.com/M2/problem2.php

#2) Show the code solution (ucid/date as comment must be present)



```php
function getTotal($arr) {
    echo "<br>Processing Array:<br><pre>" . var_export($arr, true) . "</pre>";
    $total = 0.00;
    //mrs43 6-3-2024
    //start edits
    //note: use the $arr variable, don't directly touch $a1-$a4
    //TODO do adding here
    for($i = 0; $i<count($arr); $i++){
        $total += $arr[$i];
    }

    //TODO do rounding stuff here (round to two decimals i.e., 0.10, 0.01, 0.00)
    $total = number_format((float) $total, 2);

    //end edits
```

Caption (required) ✓

Describe/highlight what's being shown

Showing code solved around line 13

Explanation (required) ✓

Explain in concise steps how this logically works

EDIT RESPONSE

Summed the values by iterating through the arrays using a for loop. For each value in the array, the total was increased by that value. The total was then rounded to two decimal places by using the "number_format" command.

● Problem 3 (3 pts.)

^COLLAPSE ^

● ^COLLAPSE ^

Task #1 - Points: 1

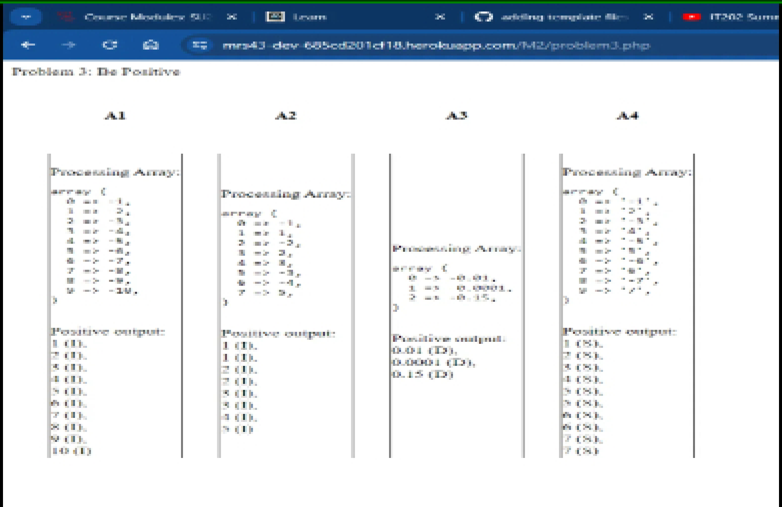
Text: Problem 3 Evidence

ⓘDetails:

Only make edits where the template code mentions.

Solution should ensure that any passed in array will have its values converted to a positive version of the value AND converted back to the original data type.
Requires at least 2 screenshots (code + output from heroku dev)
Live URL must be Herokue Prod

#1) Show the output from heroku dev (url must be visible)



mrs43-dev-685cd201cf18.herokuapp.com/M2/problem3.php

Problem 3: Be Positive

A1

```
Processing Array:
array (
  0 => -1,
  1 => -2,
  2 => -3,
  3 => -4,
  4 => -5,
  5 => -6,
  6 => -7,
  7 => -8,
  8 => -9,
  9 => -10,
)

Positive output:
1 (I),
2 (I),
3 (I),
4 (I),
5 (I),
6 (I),
7 (I),
8 (I),
9 (I),
10 (I)
```

A2

```
Processing Array:
array (
  0 => -1,
  1 => 1,
  2 => -2,
  3 => 2,
  4 => 5,
  5 => -3,
  6 => -4,
  7 => 5,
)

Positive output:
1 (I),
1 (I),
2 (I),
2 (I),
5 (I),
3 (I),
4 (I),
5 (I)
```

A3

```
Processing Array:
array (
  0 => -0.01,
  1 => 0.0001,
  2 => -0.15,
)

Positive output:
0.01 (D),
0.0001 (D),
0.15 (D)
```

A4

```
Processing Array:
array (
  0 => '-1',
  1 => '2',
  2 => '-3',
  3 => '4',
  4 => '-5',
  5 => '5',
  6 => '-6',
  7 => '6',
  8 => '-7',
  9 => '7',
)

Positive output:
1 (S),
2 (S),
3 (S),
4 (S),
5 (S),
5 (S),
6 (S),
6 (S),
7 (S),
7 (S)
```

Caption (required) ✓

Describe/highlight what's being shown

Showing output for Problem 3 in Heroku dev

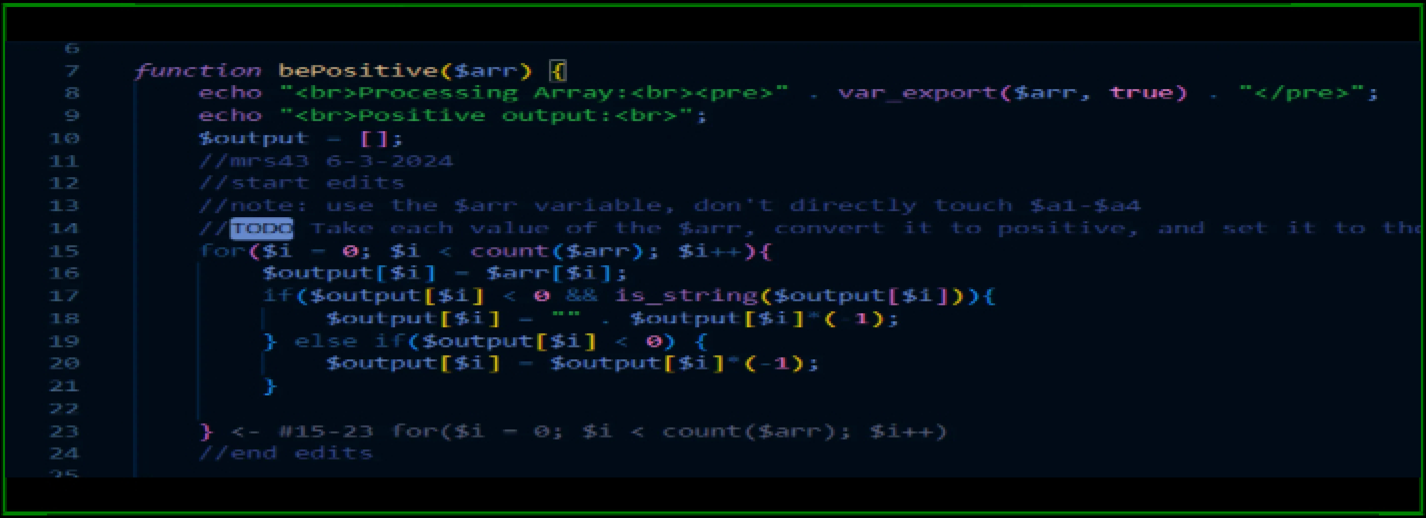
Showing output for Problem 3 in Heroku dev

URL (required) ✓

URL must be Heroku prod

https://mrs43-prod-5f0e0e79560e.herokuapp.com/M2/problem3.php

#2) Show the code solution (ucid/date as comment must be present)



```
 7  function bePositive($arr) {
 8      echo "<br>Processing Array:<br><pre>" . var_export($arr, true) . "</pre>";
 9      echo "<br>Positive output:<br>";
10      $output = [];
11      //mrs43 6-3-2024
12      //start edits
13      //note: use the $arr variable, don't directly touch $a1-$a4
14      //TODO Take each value of the $arr, convert it to positive, and set it to the
15      for($i = 0; $i < count($arr); $i++){
16          $output[$i] = $arr[$i];
17          if($output[$i] < 0 && is_string($output[$i])){
18              $output[$i] = "" . $output[$i]*(-1);
19          } else if($output[$i] < 0) {
20              $output[$i] = $output[$i]*(-1);
21          }
22
23      } <- #15-23 for($i = 0; $i < count($arr); $i++)
24      //end edits
```

Caption (required) ✓

Describe/highlight what's being shown

Showing code solved around line 15

Explanation (required) ✓

Explain in concise steps how this logically works

EDIT RESPONSE

Converted the values to positive by iterating through each array with a for loop. If a value is less than zero, which means it is negative, and a string, the value is multiplied by negative one then converted back to a string. If a value is negative but not a string, it is multipled by negative one.

● Reflection (1 pt.)

^COLLAPSE^

● ^COLLAPSE^

Task #1 - Points: 1

Text: Reflect on your experience

ⓘDetails:

Talk about any issues you had, how you resolved them, and anything you learned during this process.

Provide concrete details/examples. At least a few sentences.

Response:

For this assignment, the only issues I ran into were figuring out how to include trailing zeroes for Problem 2 and converting back to the original data type for Problem 3. I was able to find the "number_format" among PHP commands which solved my issue with Problem 2. For Problem 3, I found that I only had an issue with the string variables. I separated them during the if statement to convert them back to strings as they became positive. I did this by using the PHP append function "." and an empty string. I assigned the final value to be the positive number appended to an empty string, which makes the positve number a string.

● COLLAPSE

Task #2 - Points: 1

Text: Include the pull request link for this branch

Details:
The correct link will end with /pull/ and a number.

URL #1
https://github.com/m-sansone/mrs43-IT202-452/pull/7

● COLLAPSE

Task #3 - Points: 1

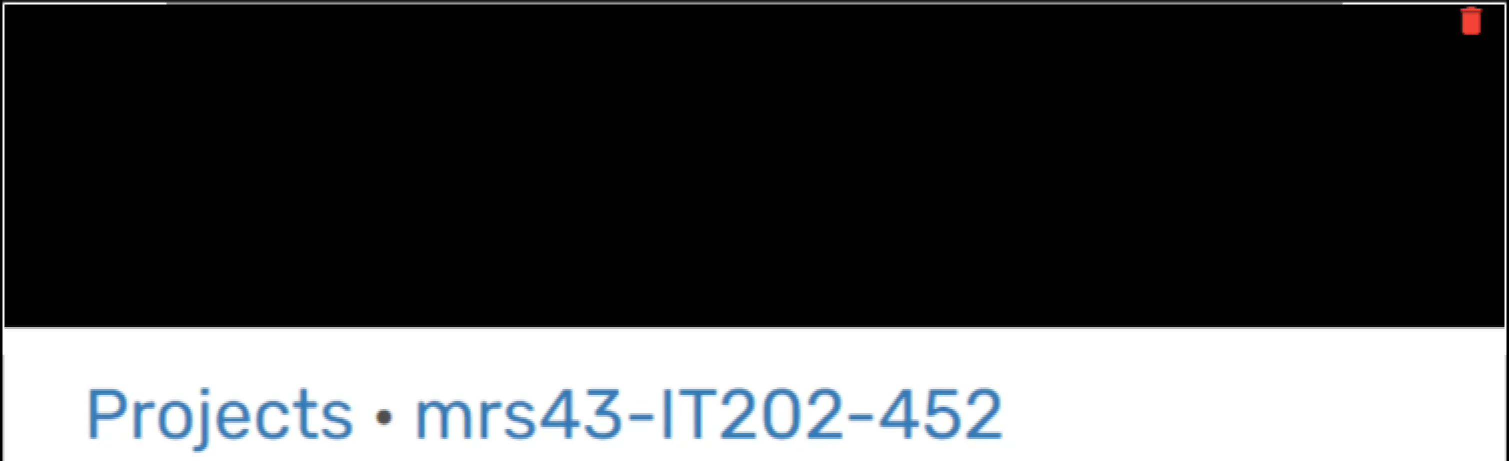
Text: Add Screenshot of Wakatime

Details:
Note: The duration of time isn't directly related to the grade, the goal is to just make sure time is being tracked

Task Screenshots:

Gallery Style: Large View

Small Medium Large



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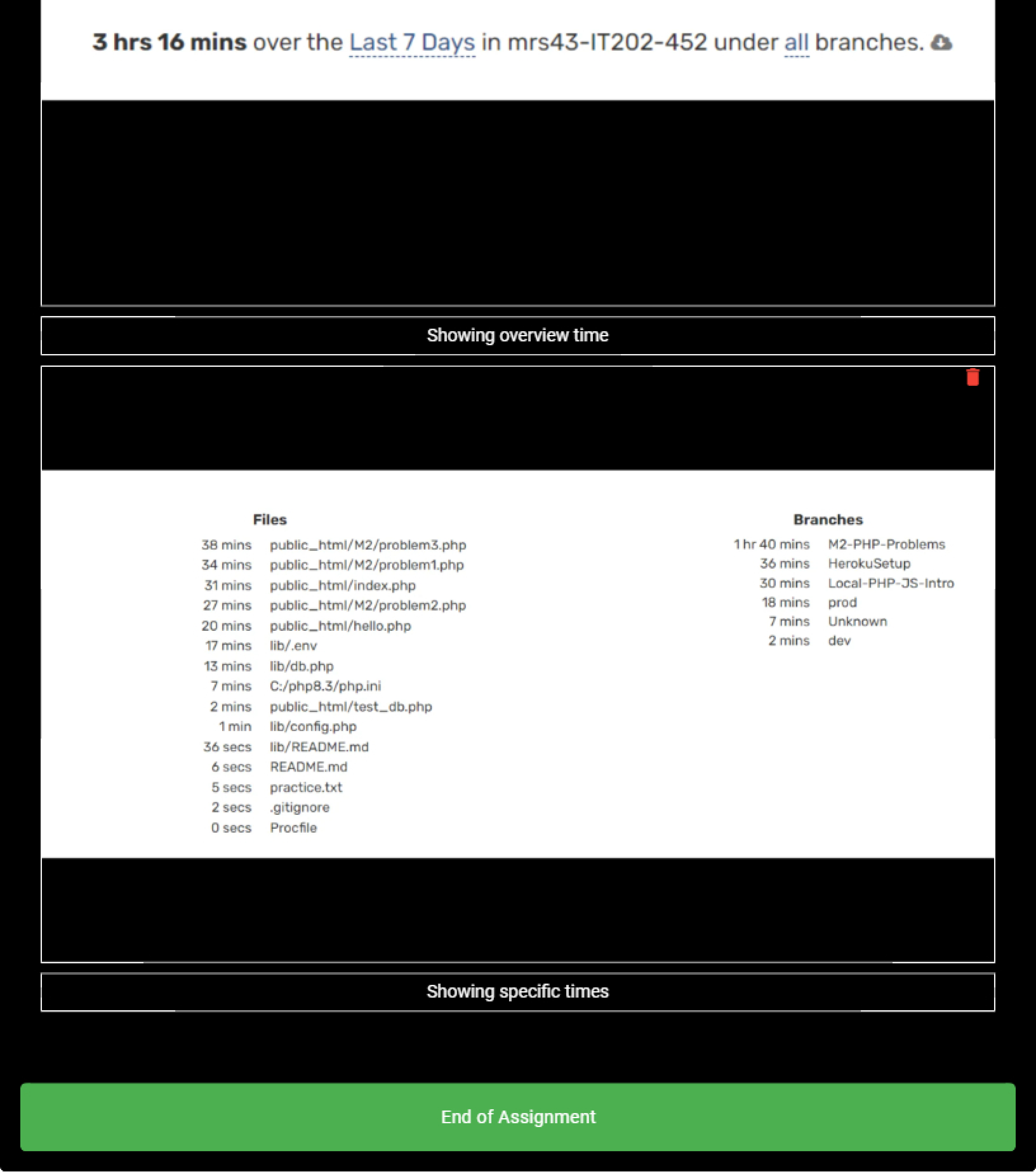

3 hrs 16 mins over the Last 7 Days in mrs43-IT202-452 under all branches.

Showing overview time

Files	
38 mins	public_html/M2/problem3.php
34 mins	public_html/M2/problem1.php
31 mins	public_html/index.php
27 mins	public_html/M2/problem2.php
20 mins	public_html/hello.php
17 mins	lib/.env
13 mins	lib/db.php
7 mins	C:/php8.3/php.ini
2 mins	public_html/test_db.php
1 min	lib/config.php
36 secs	lib/README.md
6 secs	README.md
5 secs	practice.txt
2 secs	.gitignore
0 secs	Procfile

Branches	
1 hr 40 mins	M2-PHP-Problems
36 mins	HerokuSetup
30 mins	Local-PHP-JS-Intro
18 mins	prod
7 mins	Unknown
2 mins	dev

Showing specific times