Comments Code

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| Original code | Description of Problem |
| class DittoClass | Does not describe what the class is doing, not a major issue but could be changed to something more descriptive like ‘GenerateMonthlyWages’ |
|  | Attempting to create empty strings/arrays incorrectly, also lack of camelCase! Also by making the variables protected, it allows child classes to use the variables and causes less issues than private variables. |
| Missing php close tag | Doesn’t cause errors but is typically good practice! |
| $day = new DateTime($this->\_year . '-' . $i + 1 . '-1'); | In order to concatenate $i+1 correctly, it requires brackets to be completed as a separate function the append. |
| die('Error opening the file ' . $this->\_fileName); | The die function is very dangerous in large scale systems! Alternative methods should be applied. A For loop could be used or try catch for this instance. In the original code I have added throw new exception. |
| //Comments | Assuming multiple developers will collaborate on this project, the developer should consider more commenting, they have opted to comment the code for opening and closing files but neglect the other lines (I understand this is a test so I acknowledge that would be why they are missing in this instance) |
| Public function findBonusDate() | Although the original code is good, it can be rewritten using less lines of code. The original method used += operator which would append values onto the array, this would cause problems with subsequent versions of the array. I have adapted the original code. |
| Index.php | The original code did not provide a very good cml, it was missing usage information and user-friendly tools to use the system. I have adapted the cml interface to allow users to view the options of how to use the system by pressing -h, the information displayed to the user will show them that they are able to create a default file (Defined in DittoClass), Name the file themselves, and/or name the year they wish to calculate the dates for. |

As stated in my last comment, I have adapted the cml, below are the commands you are able to test out on the system.

PHP index.php (FOR DEFAULT)

PHP index.php -f ExampleFileName.csv

PHP index.php -f ExampleFileName.csv -y 2023 (OR ANY YEAR YOU DESIRE)

PHP index.php -h (GETS HELP)