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LEEDS
BECKETT
UNIVERSITY

United Kingdom



ADVANCED WEB ENGINEERING

COMPONENT 1 DOCUMENTATION

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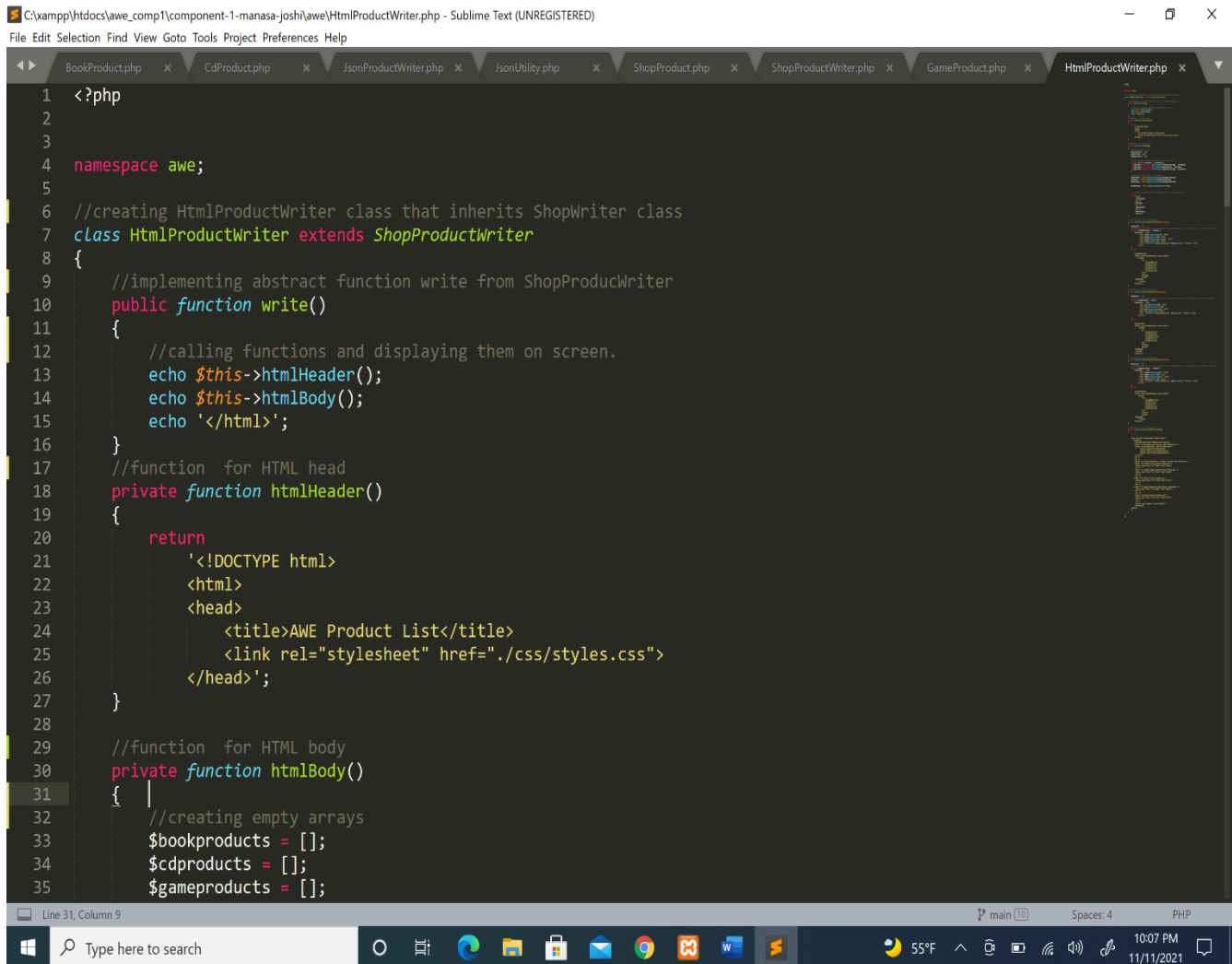
The British College

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1. DEVELOPMENT CHOICE: SUBLIME TEXT

For my code development, I have chosen Sublime text due to its feature of being smooth, fast, has an easy user interface, and has numerous plugins



```
1 <?php
2
3
4 namespace awe;
5
6 //creating HtmlProductWriter class that inherits ShopWriter class
7 class HtmlProductWriter extends ShopProductWriter
8 {
9     //implementing abstract function write from ShopProductWriter
10    public function write()
11    {
12        //calling functions and displaying them on screen.
13        echo $this->htmlHeader();
14        echo $this->htmlBody();
15        echo '</html>';
16    }
17    //function for HTML head
18    private function htmlHeader()
19    {
20        return
21            '<!DOCTYPE html>'
22            '<html>'
23            '<head>'
24                '<title>AWE Product List</title>'
25                '<link rel="stylesheet" href="./css/styles.css">'
26            '</head>';
27    }
28
29    //function for HTML body
30    private function htmlBody()
31    {
32        //creating empty arrays
33        $bookproducts = [];
34        $cdproducts = [];
35        $gameproducts = [];
```

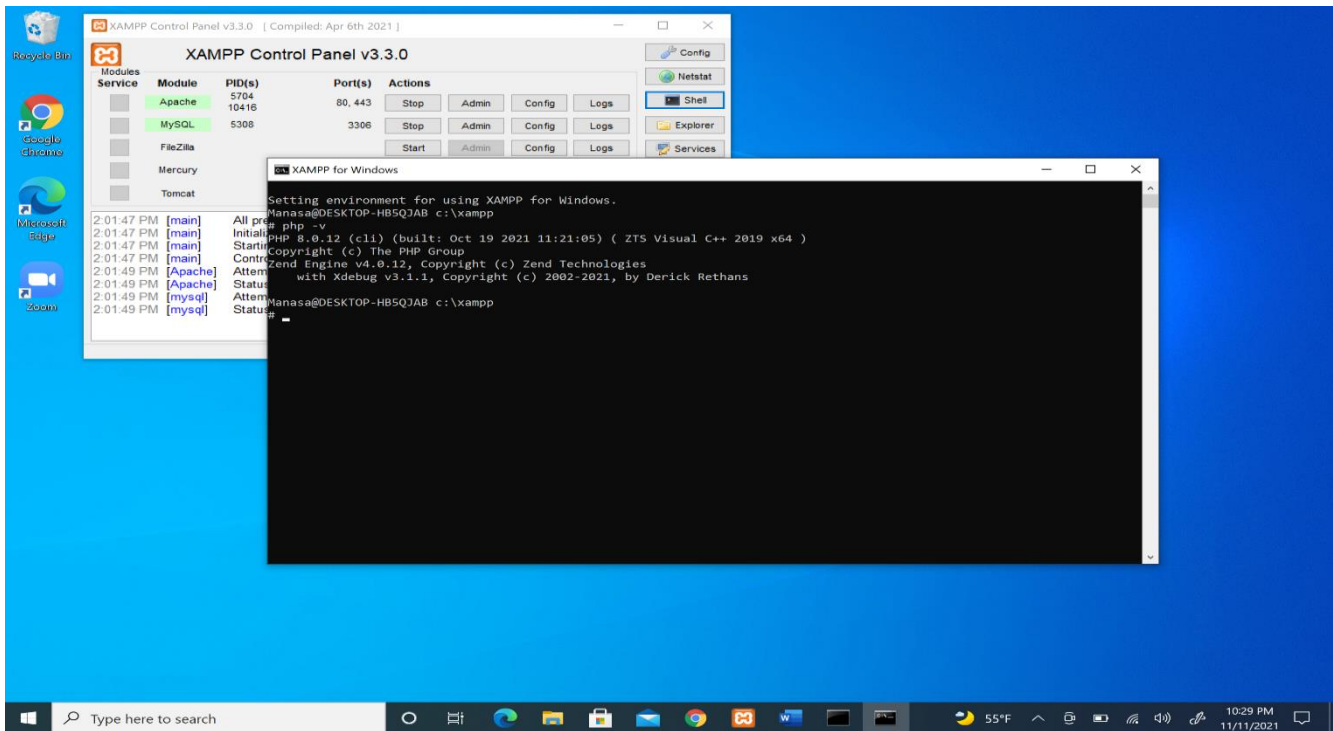
2. PHP VERSION being used: 8.0.12 (in both)

PHP(Hypertext Preprocessor) is an HTML-enabled server-side programming language. It's used to manage dynamic content, databases, and session monitoring, as well as to create full e-commerce websites. MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server are just a few of the databases it supports. I have installed PHP version 8.0.12 in both systemwide and xampp.

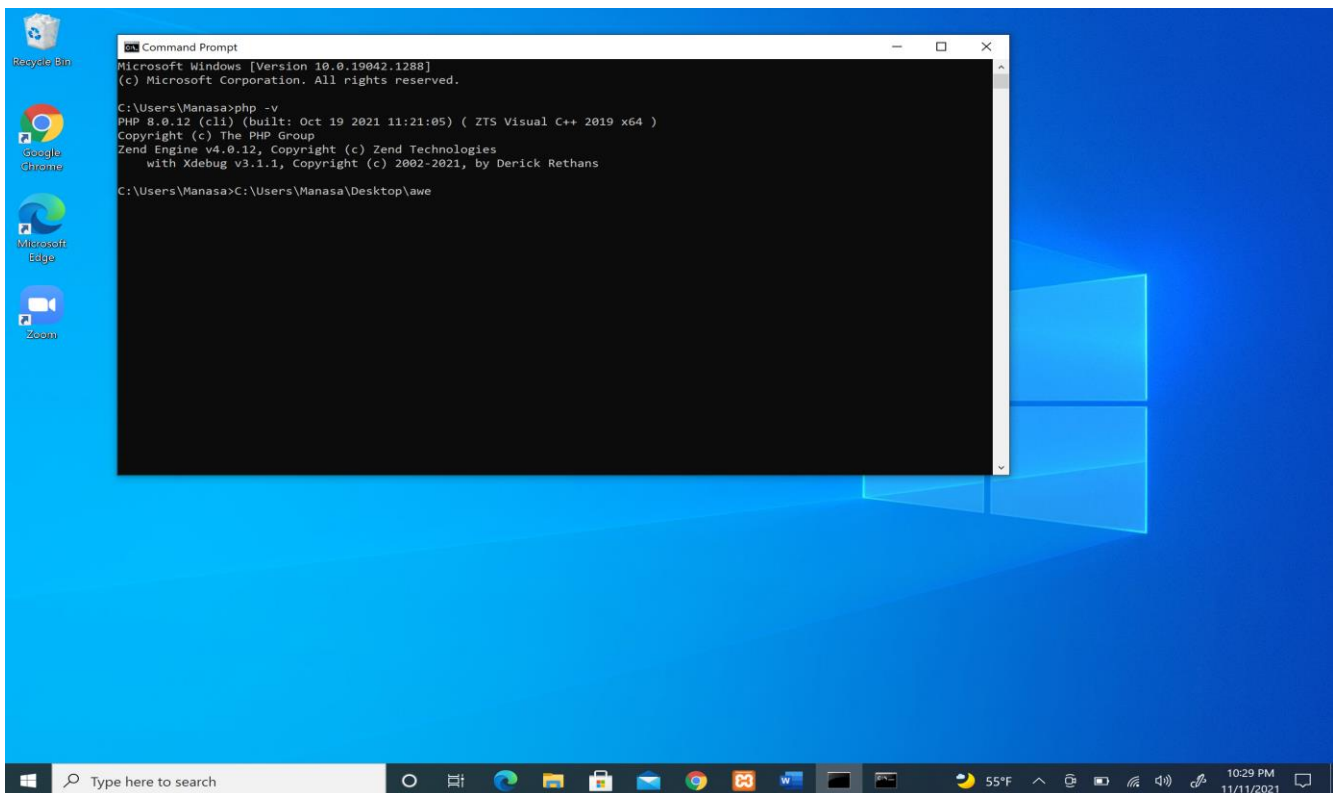
Xdebug:

Xdebug is a debugging and profiling tool on development servers. Xdebug allows fatal errors to be debugged with the same clarity as regular program execution without the restrictions of shutdown processes by providing stack and function execution traces and error messages.

- XAMPP's PHP with version 8.0.12 and Xdebug with v3.1.1

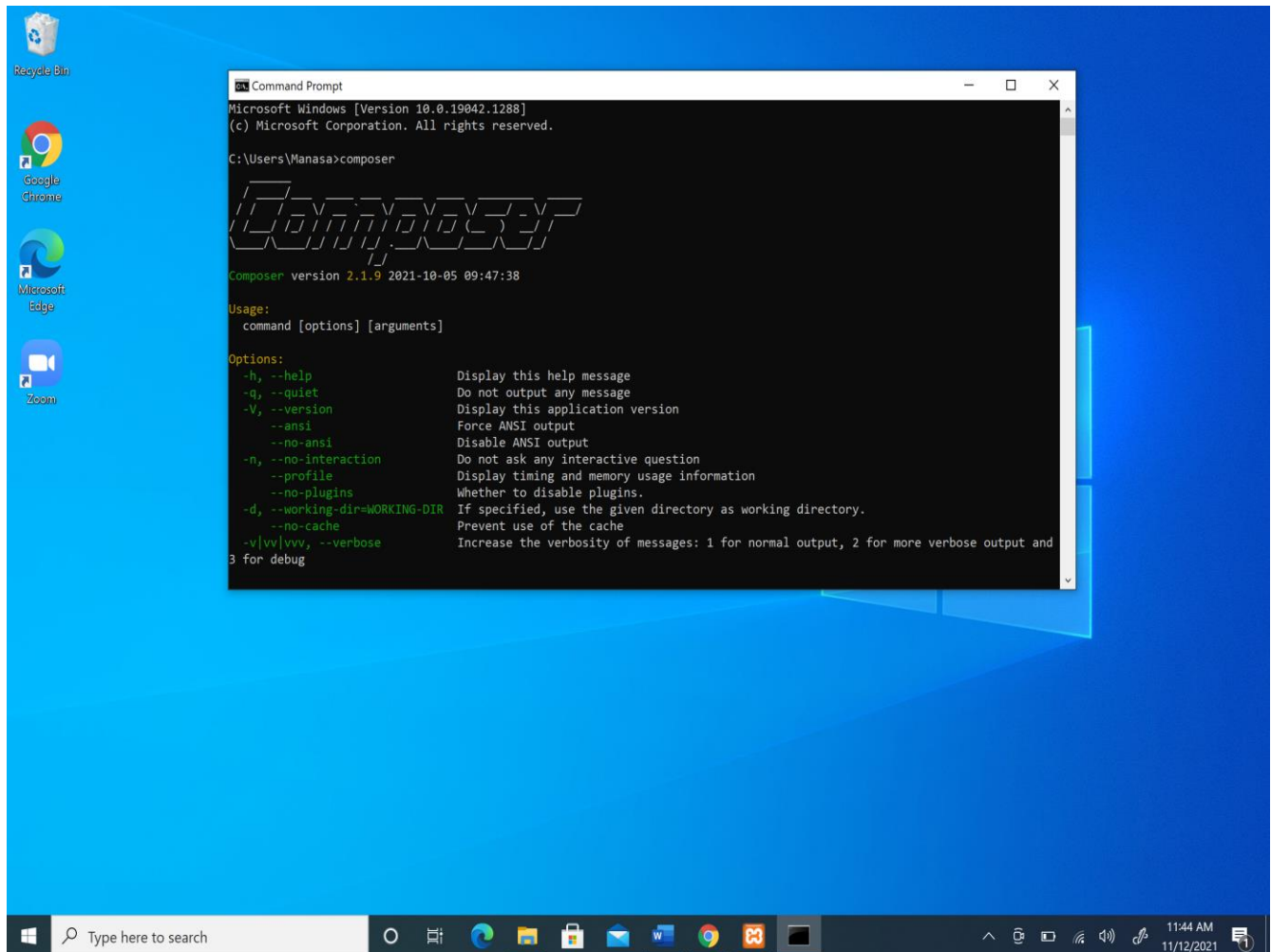


- System's PHP with version 8.0.12 and Xdebug with v3.1.1



3. Composer:

Composer is a PHP programming language application-level package manager that offers a standard framework for managing PHP applications and needed libraries.



4. GitHub account component 1 repository link: <https://github.com/tbc-bsc-16/component-1-manasa-joshi>

5. PHP Exercise in component 1 completed? Yes

tbcs-bc-l6/component-1-manasa-joshi | ORBUND - Einstein | AWE Product List | +

localhost/awe_comp1/component-1-manasa-joshi/index.php

BOOKS

AUTHOR	TITLE	PAGES	PRICE	DELETE
Matt Zandstra	PHP Objects, Patterns and Practice	608	44.99	X

CDs

ARTIST	TITLE	DURATION	PRICE	DELETE
Georgia	Seeking Thrills	45	8.5	X

GAMES

CONSOLE	TITLE	PEGI	PRICE	DELETE
Nintendo Switch	Animal Crossing: New Horizons	3	44.99	X

ADD NEW PRODUCT

Product Type:
CD

Author / Artist/ Console:
First Name:
Main Name/Surname:
Title:
Pages/Duration Pegi:
Price:
Submit

```
16 }
17 $json_str = rtrim($json_str, ","); //remove final ',' from outputted json string
18
19 $json_str .= "];";
20
21 //displaying array.
22 echo $json_str;
23 }
24
25 //function to add product to json file
26 private function addEachProductAsJSON($product){
27     $json_product = [];
28     $json_product['id'] = $product->getId();
29     $json_product['title'] = $product->getTitle();
30     $json_product['firstname'] = $product->getFirstName();
31     $json_product['mainname'] = $product->getMainName();
32     $json_product['price'] = $product->getPrice();
33
34     if($product instanceof BookProduct) {
35         $json_product['numpages'] = $product->getNumberOfPages();
36         $json_product['type'] = "book";
37     }
38     if($product instanceof CDProduct) {
39         $json_product['playlength'] = $product->getPlayLength();
40         $json_product['type'] = "cd";
41     }
42     if($product instanceof GameProduct) {
43         $json_product['totalPegi'] = $product->getTotalPegi();
44         $json_product['type'] = "game";
45     }
46
47     //returning JASON representation of value
48     return json_encode($json_product);
49 }
50 }
```

```
C:\xampp\htdocs\awe_comp1\component-1-manasa-joshi\awe\JsonUtility.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

BookProduct.php x CdProduct.php x JsonProductWriter.php x JsonUtility.php x ShopProduct.php x ShopProductWriter.php x GameProduct.php x HtmlProductWriter.php x

19 foreach ($productsJson as $product) {
20
21     //using switch case to add product to specific variable
22     switch($product['type']) {
23         case "cd":
24             //creating new object of CdProduct class
25             $cdproduct = new \awe\CdProduct($product['id'],$product['title'], $product['firstname'],
26                 $product['mainname'],$product['price'], $product['playlength']);
27             //adding new product to array
28             $products[] = $cdproduct;
29             break;
30
31         case "book":
32             //creating new object of BookProduct class
33             $bookproduct = new \awe\BookProduct($product['id'],$product['title'], $product['firstname'],
34                 $product['mainname'],$product['price'], $product['numpages']);
35
36             //adding new product to array
37             $products[]=$bookproduct;
38             break;
39
40         case "game":
41             //creating new object of GameProduct class
42             $gameproduct = new \awe\GameProduct($product['id'],$product['title'], $product['firstname'],
43                 $product['mainname'],$product['price'], $product['totalPegi']);
44             //adding new product to array
45             $products[] = $gameproduct;
46             break;
47     }
48 }
49 return $products;
50 }
51
52 //function to delete product from JASON file
53 public static function deleteProductWithId(string $file, int $id) {
```

```
C:\xampp\htdocs\awe_comp1\component-1-manasa-joshi\awe\HtmlProductWriter.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

BookProduct.php x CdProduct.php x JsonProductWriter.php x JsonUtility.php x ShopProduct.php x ShopProductWriter.php x GameProduct.php x HtmlProductWriter.php x

127 </tbody>
128 </table>';
129 }
130 //function that returns games table
131 private function generateGameTable($gameproducts)
132 {
133     $contents = '';
134     //using foreach loop to access products from gameproducts array and setting it to contents variable
135     foreach ($gameproducts as $game) {
136         $contents .= '<tr>
137             <td>'.$game->getFullName().</td>'
138             .<td>'.$game->getTitle().</td>'
139             .<td>'.$game->getTotalPegi().</td>'
140             .<td>'.$game->getPrice().</td>'
141             .<td>'.<a href="/index.php?delete='.$game->getId().'">X</a>'.</td>
142             </tr>';
143     }
144     return
145     '
146     <h3>GAMES</h3>
147     <table class="paleBlueRows equal-width">
148         <thead>
149             <tr>
150                 <th>CONSOLE</th>
151                 <th>TITLE</th>
152                 <th>PEGI</th>
153                 <th>PRICE</th>
154                 <th>DELETE</th>
155             </tr>
156         </thead>
157         <tbody>'
158     . $contents
159     . '</tbody>'
160     . '</table>';
161 }
```

```
C:\xampp\htdocs\awe_comp1\component-1-manasa-joshi\awe\GameProduct.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

1 <?php
2
3
4 namespace awe;
5
6 //creating GameProduct class that inherits ShopProduct class
7 class GameProduct extends ShopProduct
8 {
9     // declaring variable
10    private $totalPegi;
11
12    //constructor function
13    public function __construct(
14        string $id,
15        string $title,
16        string $firstName,
17        string $mainName,
18        float $price,
19        int $totalPegi
20    )
21    {
22
23        //calling parent constructor
24        parent::__construct(
25            $id,
26            $title,
27            $firstName,
28            $mainName,
29            $price
30        );
31        $this->totalPegi = $totalPegi;
32    }
33
34    //function to return Pegi
35    public function getTotalPegi()
```