Component 1:

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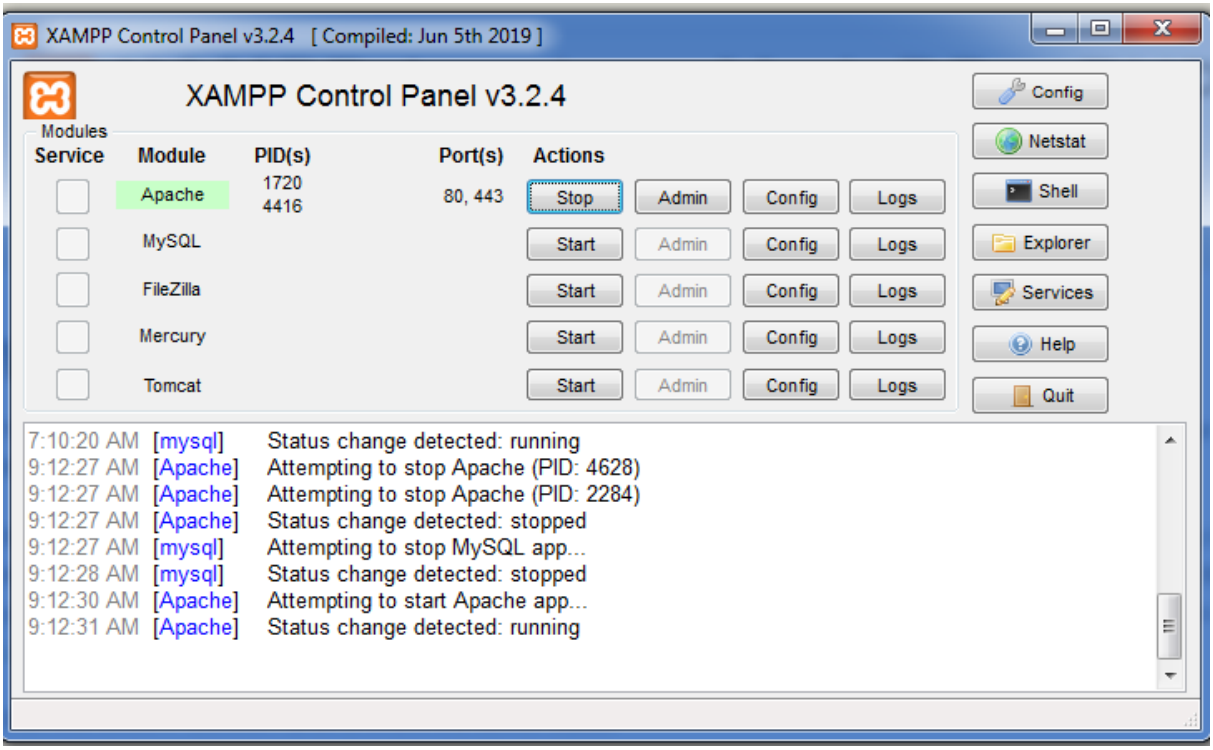
Development Choice: **XAMPP**
VSCode

XAMPP:

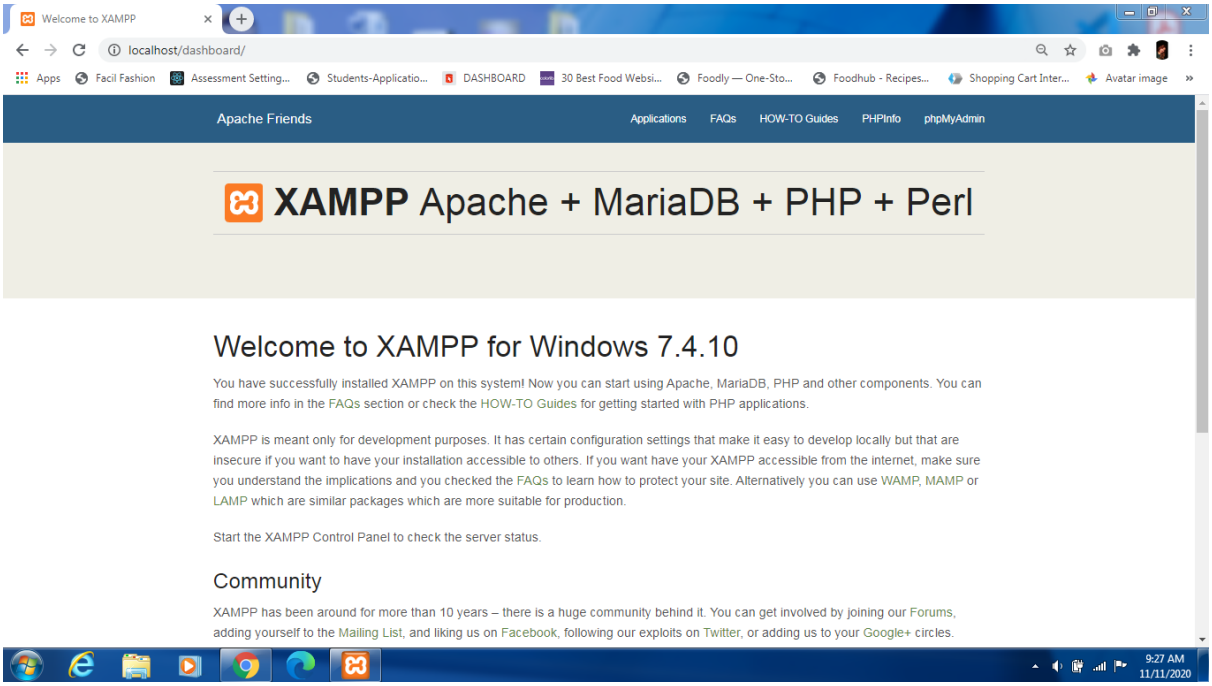
We will need a web-server which here would be XAMPP for us. To install XAMPP in our system firstly we will need to download the latest version for XAMPP through this website:

https://xampp-windows.en.softonic.com/download

We should select the suitable OS and proceed for the downloading process. After downloading the exe file, running the exe file will start the setup. Then click on 'Next' to configure the installation. After clicking on the 'Next', there is selection of the components available and it is recommended to install the available component for the full services. During installation you must choose directory where you want your XAMPP to be installed. Finally, the installation process begins which might take a few minutes. After this, click on the 'Finish' button and XAMPP is good to go.



This small window appears on your screen. Now, press start of the Apache server in order to start XAMPP. After Apache Server begins you can go to the browser on your computer and type ‘localhost’ which gives you the screen output shown below:



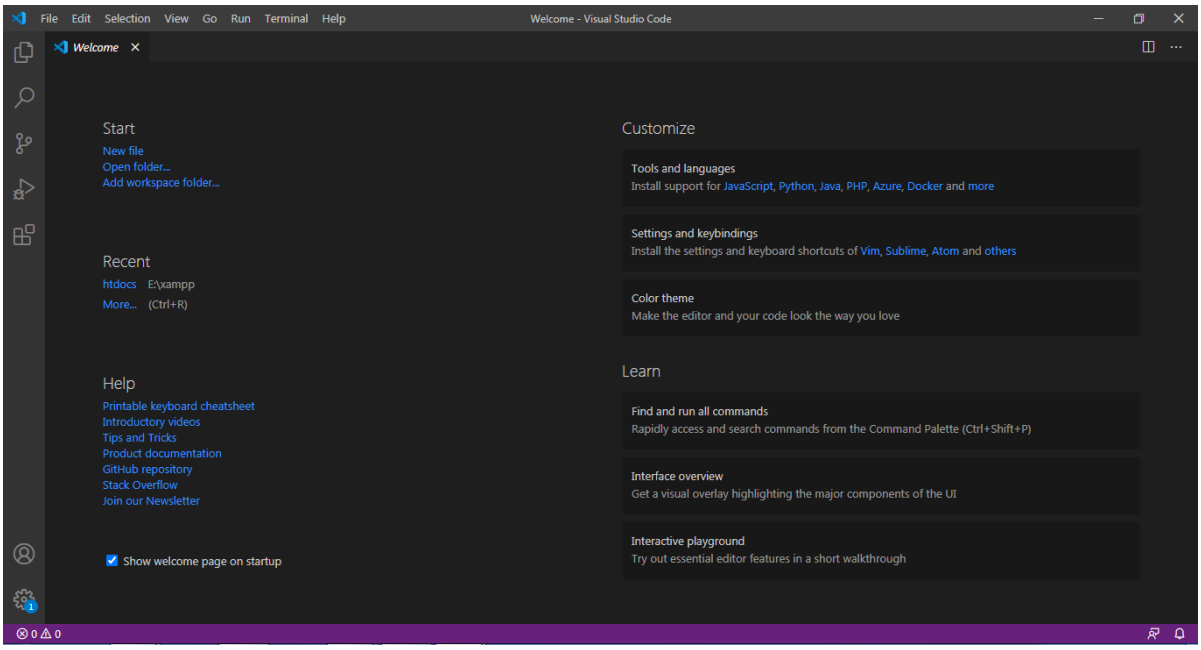
Visual Studio Code:

An Integrated Development Environment that will be used in the upcoming Project will be VSCode . VSCode is easily available for any OS type, is light-weighted and has robust architecture. It is freely available which turns out be best advantage for beginners in this field. It also provides supportive tools like HTML, CSS, JSON.

To download Visual Studio Code (VSCode) firstly we will need to visit this link:

https://code.visualstudio.com/download

After downloading run the exe file and the VSCode will be ready to use.



Here is the screenshot of VSCode after being successfully downloaded.

PHP Version being used: 7.4.10

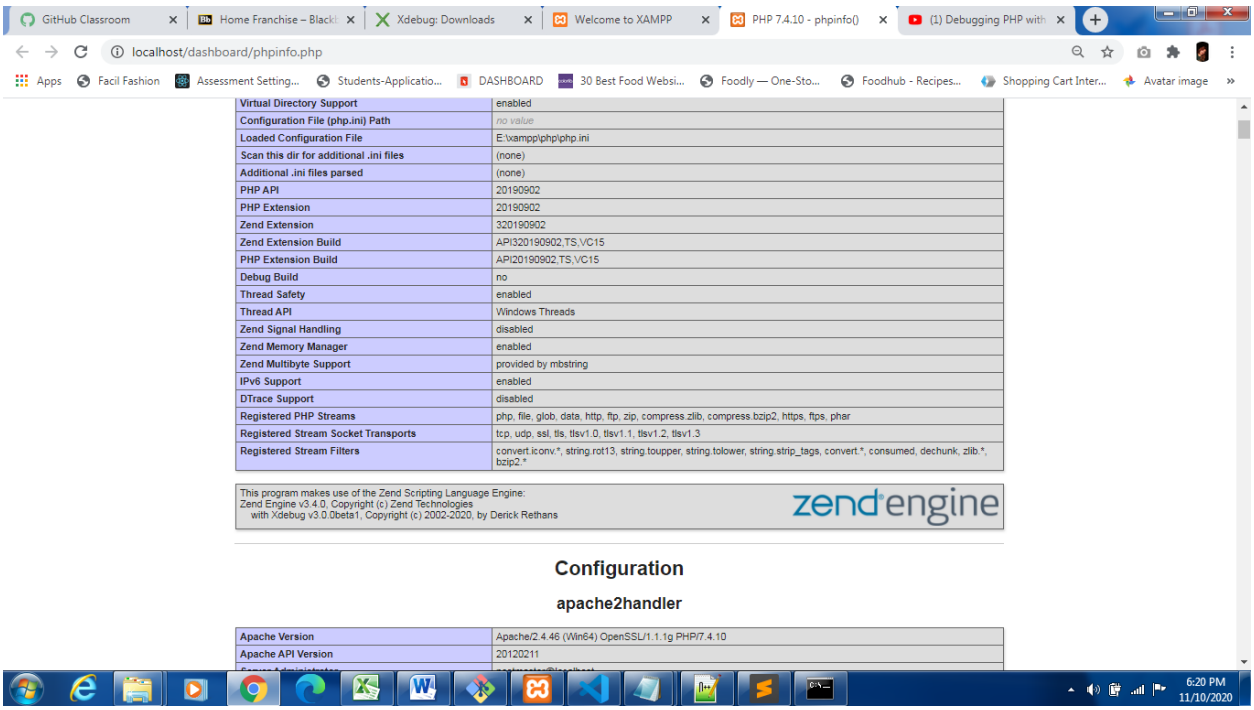
XDebug installed: Yes

For debugging process XDebug will be used this time. XDebug of a suitable version for the PHP can be downloaded from this site: https://xdebug.org/download

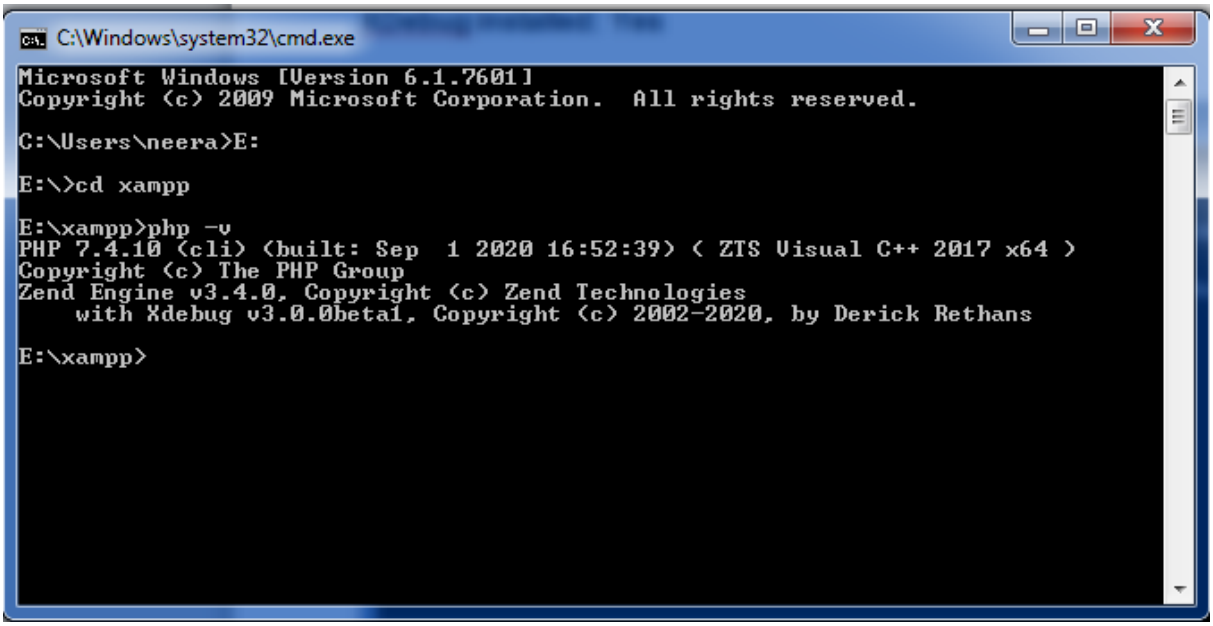
After downloading the suitable 'dll' file from this site, place this 'dll' file into the 'ext' folder inside of your PHP folder. Then, we need to make some changes in our 'php.ini' file by including the following lines at the very end of the file:

```
[XDebug]
zend_extension= "E:\xampp\php\ext\php_xdebug-3.0.0beta1-7.4-vc15-x86_64.dll"
xdebug.remote_enable =1
xdebug.remote_autostart =1
```

Then restart your webserver and open browser with 'localhost'. The information of XDebug present in the PHP will be shown like below:



Output of php –v:

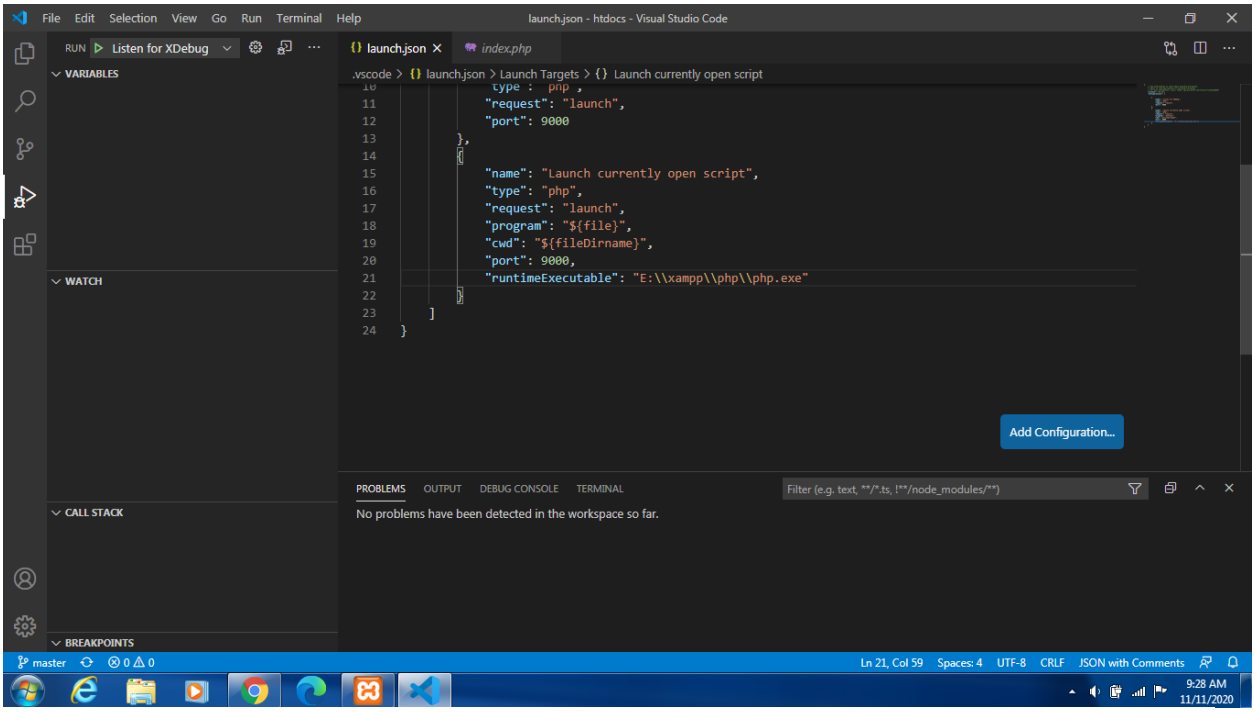


Again, we have to make sure that XDebug also runs in the IDE, for us that would be VSCode. So, we also need to install PHP Debug searching into the VSCode. After this we have to go to ‘Run’ in the menu bar and click ‘Add Configuration’ then, finally type php in the configuration. But before adding configuration, make sure to select a folder of the project to be debugged. ‘launch.json’ appears on the VSCode screen, there add:

```
"runtimeExecutable": "E:\\xampp\\php\\php.exe"
```

In- ‘ “name”: “Launch currently opened scripts” ’ and PHP Debug will run

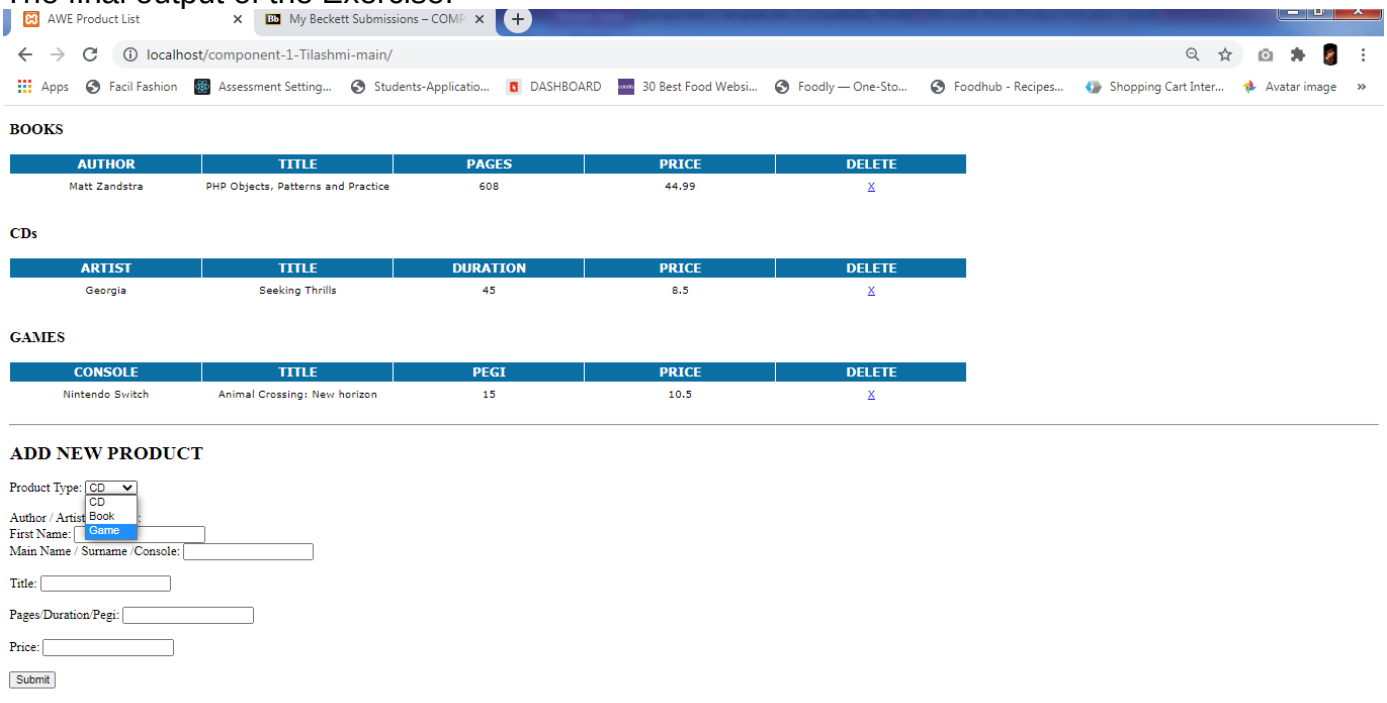
successfully.



Now, our debugging tool is ready.

Git account created and used:

https://github.com/comp-bkt/component-1-Tilashmi

PHP exercise:

The final output of the Exercise: