

**CAK2BAB3 IMPLEMENTASI DAN PENGUJIAN  
PERANGKAT LUNAK**

**Tugas-Week-14**

**Kelompok: C**

**KELAS IF-46-07**

**Dosen: HAU**



**PROGRAM STUDI INFORMATIKA**

**FAKULTAS INFORMATIKA**

**UNIVERSITAS TELKOM**

**BANDUNG**

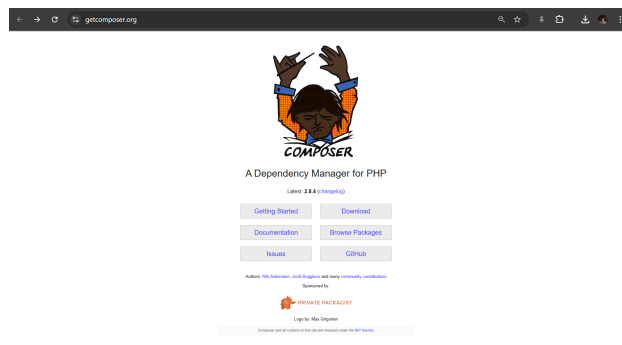
**2024**

## Tabel Aktivitas

Nama	NIM	Kontribusi Tugas
Muhammad Taufi Al Fikri	1301223417	mengerjakan bersama
Shalisyah Amania Fatiha	1301223251	mengerjakan bersama

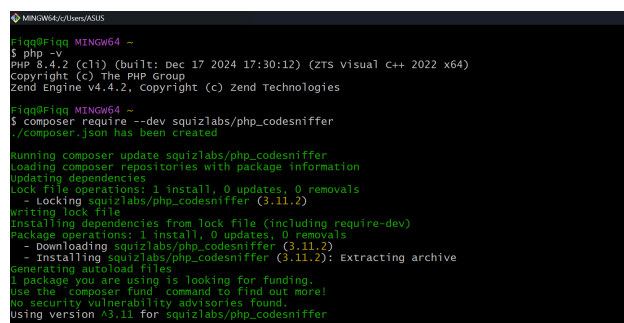
### 1. Aplikasi/tools pengukuran OO Metric

Composer: Alat manajer dependensi untuk PHP yang memudahkan pengelolaan pustaka dan paket dalam proyek. Composer otomatis menginstal dan mengatur versi pustaka yang dibutuhkan oleh proyek PHP.



{ Screenshot tools composer }

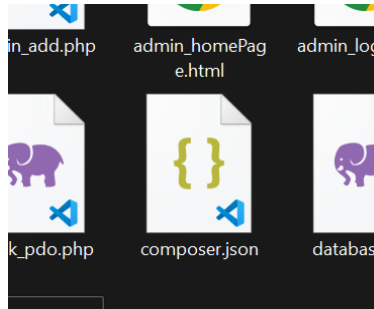
PHP\_CodeSniffer: Alat untuk memeriksa kode PHP agar sesuai dengan standar pengkodean yang ditetapkan (seperti PSR). PHP\_CodeSniffer membantu memastikan konsistensi dan kualitas kode dengan mendeteksi kesalahan gaya penulisan.



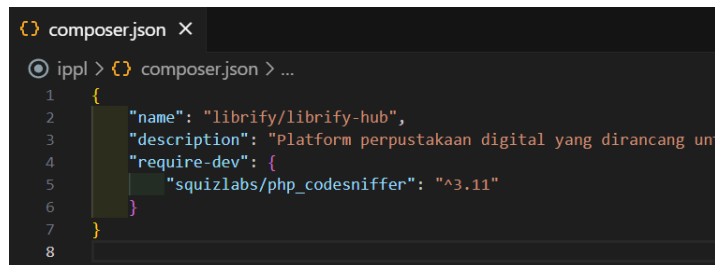
{ Screenshot tools PHP\_CodeSniffer }

## 2. Langkah pengukuran OO metric pada project tugas kelompok

- **Buat file composer.json terlebih dahulu**

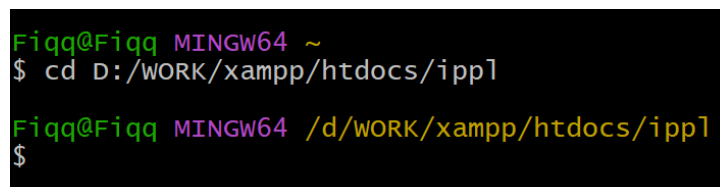


{ Screenshot file composer.json }



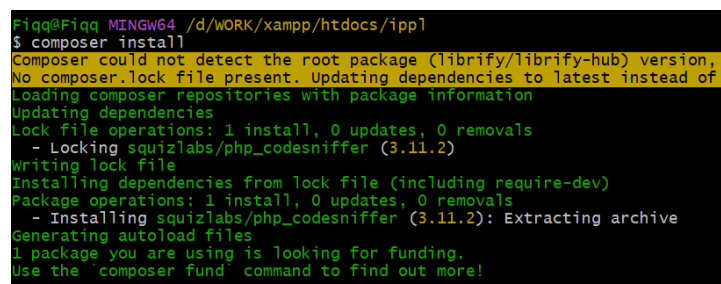
{ Screenshot code composer.json }

- **Buka Git Bash di folder proyek (misalnya D:\WORK\xampp\htdocs\ipp1) atau navigasikan ke direktori proyek menggunakan perintah cd**



{ Screenshot navigasik ke direktori }

- **Pastikan bahwa PHP\_CodeSniffer dan dependensi lain sudah terinstal dengan benar di dalam folder vendor**



{ Screenshot composter install }

- **Jalankan PHP\_CodeSniffer** dengan perintah yang sudah disesuaikan, memilih file untuk dilakukan uji coba pengukur Object Oriented Metric

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --version
PHP_CodeSniffer version 3.11.2 (stable) by Squiz and PHPCSStandards

Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 member_homePage.php

FILE: D:\WORK\xampp\htdocs\ipp1\member_homePage.php
-----
FOUND 4 ERRORS AND 67 WARNINGS AFFECTING 71 LINES
-----
```

{ Screenshot uji coba }

### 3. Hasil pengukuran OO metric pada project tugas kelompok

- file { admin\_add.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 admin_add.php

FILE: D:\WORK\xampp\htdocs\ipp1\admin_add.php
-----
FOUND 3 ERRORS AND 1 WARNING AFFECTING 3 LINES
-----
```

- file { admin\_login.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 admin_login.php

FILE: D:\WORK\xampp\htdocs\ipp1\admin_login.php
-----
FOUND 2 ERRORS AFFECTING 2 LINES
-----
```

- file { books\_borrowing.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 books_borrowing.php

FILE: D:\WORK\xampp\htdocs\ipp1\books_borrowing.php
-----
FOUND 4 ERRORS AND 1 WARNING AFFECTING 3 LINES
-----
```

- file { books\_cart.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 books_cart.php

FILE: D:\WORK\xampp\htdocs\ipp1\books_cart.php
-----
FOUND 3 ERRORS AFFECTING 2 LINES
-----
```

- file { books\_cart\_clear.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 books_cart_clear.php

FILE: D:\WORK\xampp\htdocs\ipp1\books_cart_clear.php
-----
FOUND 5 ERRORS AFFECTING 5 LINES
-----
```

- file { books\_cart\_remove.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 books_cart_remove.php

FILE: D:\WORK\xampp\htdocs\ipp1\books_cart_remove.php
-----
FOUND 4 ERRORS AFFECTING 3 LINES
-----
```

- file { books\_get.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 books_get.php

FILE: D:\WORK\xampp\htdocs\ipp1\books_get.php
-----
FOUND 3 ERRORS AFFECTING 2 LINES
-----
```

- file { books\_return.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 books_return.php

FILE: D:\WORK\xampp\htdocs\ipp1\books_return.php
-----
FOUND 4 ERRORS AFFECTING 3 LINES
-----
```

- file { check\_pdo.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 check_pdo.php

FILE: D:\WORK\xampp\htdocs\ipp1\check_pdo.php
-----
FOUND 2 ERRORS AFFECTING 2 LINES
-----
```

- file { database.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 database.php

FILE: D:\WORK\xampp\htdocs\ipp1\database.php
-----
FOUND 3 ERRORS AFFECTING 3 LINES
-----
```

- file { member\_homePage.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 member_homePage.php

FILE: D:\WORK\xampp\htdocs\ipp1\member_homePage.php
-----
FOUND 4 ERRORS AND 67 WARNINGS AFFECTING 71 LINES
-----
```

- file { member\_login.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 member_login.php

FILE: D:\WORK\xampp\htdocs\ipp1\member_login.php
-----
FOUND 2 ERRORS AFFECTING 2 LINES
-----
```

- file { member\_logout.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 member_logout.php

FILE: D:\WORK\xampp\htdocs\ipp1\member_logout.php
-----
FOUND 7 ERRORS AFFECTING 5 LINES
-----
```

- file { member\_register.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 member_register.php

FILE: D:\WORK\xampp\htdocs\ipp1\member_register.php
-----
FOUND 7 ERRORS AFFECTING 6 LINES
-----
```

- file { member\_search.php }

```
Fiqq@Fiqq MINGW64 /d/WORK/xampp/htdocs/ipp1
$ vendor/bin/phpcs --standard=PSR2 member_search.php

FILE: D:\WORK\xampp\htdocs\ipp1\member_search.php
-----
FOUND 2 ERRORS AND 1 WARNING AFFECTING 3 LINES
-----
```

note:

1. uji coba file menggunakan file terakhir update per tanggal 22/12/2024.
2. uji coba kami untuk pemeriksaan bisa menggunakan:  
vendor/bin/phpcs --standard=PSR2 ...file  
vendor/bin/phpcs --standard=PSR12 ...file
3. uji coba kami untuk auto fix bisa menggunakan:  
vendor/bin/phpcbf --standard=PSR2 ...file
4. kami tidak menggunakan auto fix untuk menghindari hal yang tidak diinginkan.
5. uji coba kami untuk pemeriksaan seluruh file di folder:  
vendor/bin/phpcbf --standard=PSR2 --recursive D:/WORK/xampp/htdocs/ipp1  
vendor/bin/phpcbf --standard=PSR2 --recursive D:/WORK/xampp/htdocs/ipp1
6. kami tidak melakukan Screenshot karena hasil eksekusi yang sangat banyak.