

# Assignment 4

As a part of this assignment, you have to review the [ims](#) code base. Code base is written in PHP with parts of JS and HTML. Students are divided in teams of 5. The teams are required to do a code review of the allocated files. You can find the sheet at <https://goo.gl/a6nTPs> and code base on moodle.

Code review consists of

- Find and report Bugs in the code.
- Find and report the code smells within the code.
- Find and report whether the code written satisfies the coding standards. Refer to the [PSR-2](#) for PHP, [javascript coding guide](#) for JavaScript and [codeguide](#) for HTML.
  - For more details about PSR-2, [refer http://www.php-fig.org/psr/psr-2/](http://www.php-fig.org/psr/psr-2/)

Format of code review report named “codereview.pdf”

Team Number	<team_number>
Team Members	1. <student_name> (<student_roll_no>) 2. <student_name> (<student_roll_no>) 3. <student_name> (<student_roll_no>) 4. <student_name> (<student_roll_no>) 5. <student_name> (<student_roll_no>)
Code Review of	<numbered_list_of_all_files_assigned_to_your_team>
# lines of code reviewed	<count>
# classes	<count>
# methods	<count>
# bugs identified	<count>
# code smells identified	<count>

Bug Number	#1
File	<file_name>
Class	<class_name>
Method	<method_name>
Short Description	<example_description>
Suggestions to fix the bug	<example_description>

Code Smell	#category
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<b>File</b>	<file_name>
<b>Class</b>	<class_name>
<b>Method</b>	<method_name>
<b>Short Description</b>	<example_description>
<b>Suggestions to remove codesmell</b>	<example_description>

Based on your first code review make suitable improvements (refactor and adherence to the standards) and do a code review again of the new code. Both the old and the new code should be uploaded on moodle in the exact same format as shown.

```
Team_<team_number>
| --old
|   |--all_php_files_allocated
|   |--code_review.pdf
|
| --new
|   |--all_modified_php_files
|   |--code_review.pdf
|
|--README.md
```

Strictly follow this directory structure while uploading on moodle. Name of the file should be your Team\_<number> and child directories are old and new. README.md should contain list of all the changes you made while improving your code.

Upload format: Team\_<team\_number>.zip