

Digital BlackSmiths: Thutong LMS

Coding Standards Documentation

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Coding Conventions

The following are coding conventions for non-Moodle files (JavaScript, Java, C, PHP) made by us as a group

Naming Conventions

- Classes, functions and variables are to be named to descriptive as to what their purpose is.

Layout:

- Each File or Class has a header in which there is a description of the files' purpose and the person who created it and last edited.
- One class per file; each class may contain multiple functions
- No more than one blank line is prohibited between lines of code, but with that said functions must be separated with a blank line for clarity and readability
- Every class definition, function and loop must be indented. The beginning brace must be placed in the same line as the definition of the loop or function but the ending brace must be in it's own line followed an empty line.

Commenting practices:

- Each file header has a comment describing the files' purpose and the person who created it and last edited. This is done using multiline comments

```
/*
 * Comment
 */
```
- Multiline comments are also placed above a function to describe its purpose
- Single line comments are to be used to give an explanation of what a specific line does; these should be only used when necessary.
Code must be neat and self-explanatory, comments should be used when an action is fairly complex or needs additional instruction to another programmer.

Moodle files use a standard coding standard, described at:

https://docs.moodle.org/dev/Coding_style

File Structure

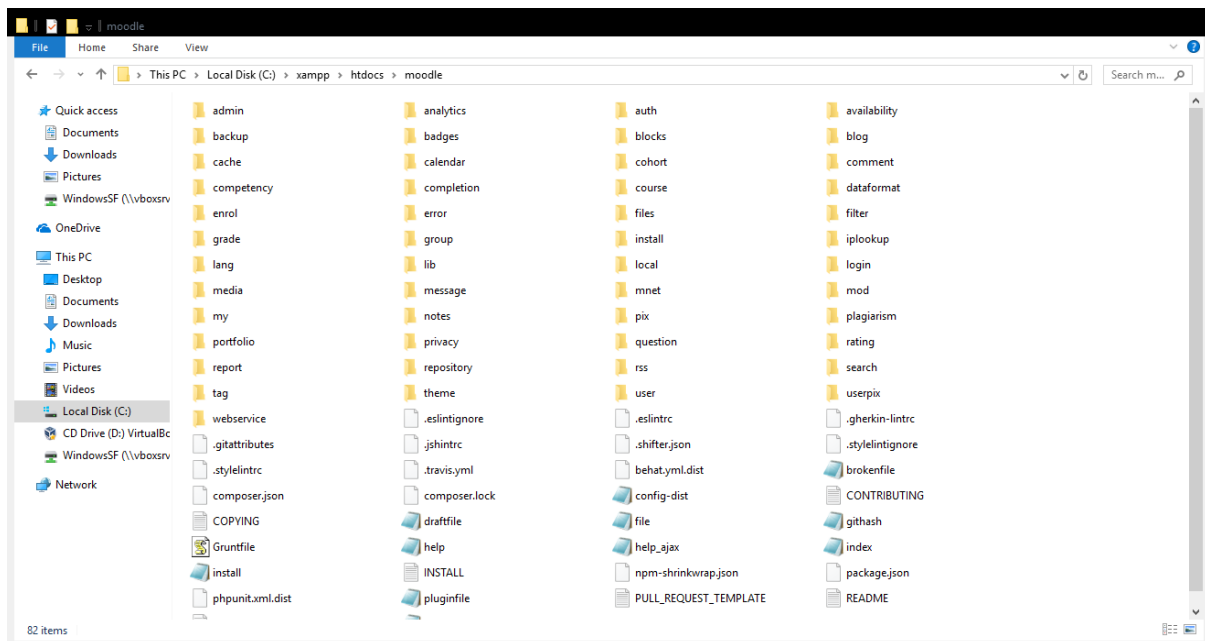


Figure 1

As se from Figure 1, Moodle has fixed file structure, with all needed elements.

All aspects or concepts are grouped accordingly.

Plugins are also placed in the appropriate location if downloaded as a zip file:

https://docs.moodle.org/31/en/Installing_plugins

Code Review

Group reviews code after it has been uploaded onto GIT; not a frequent process as most components are read made by Moodle