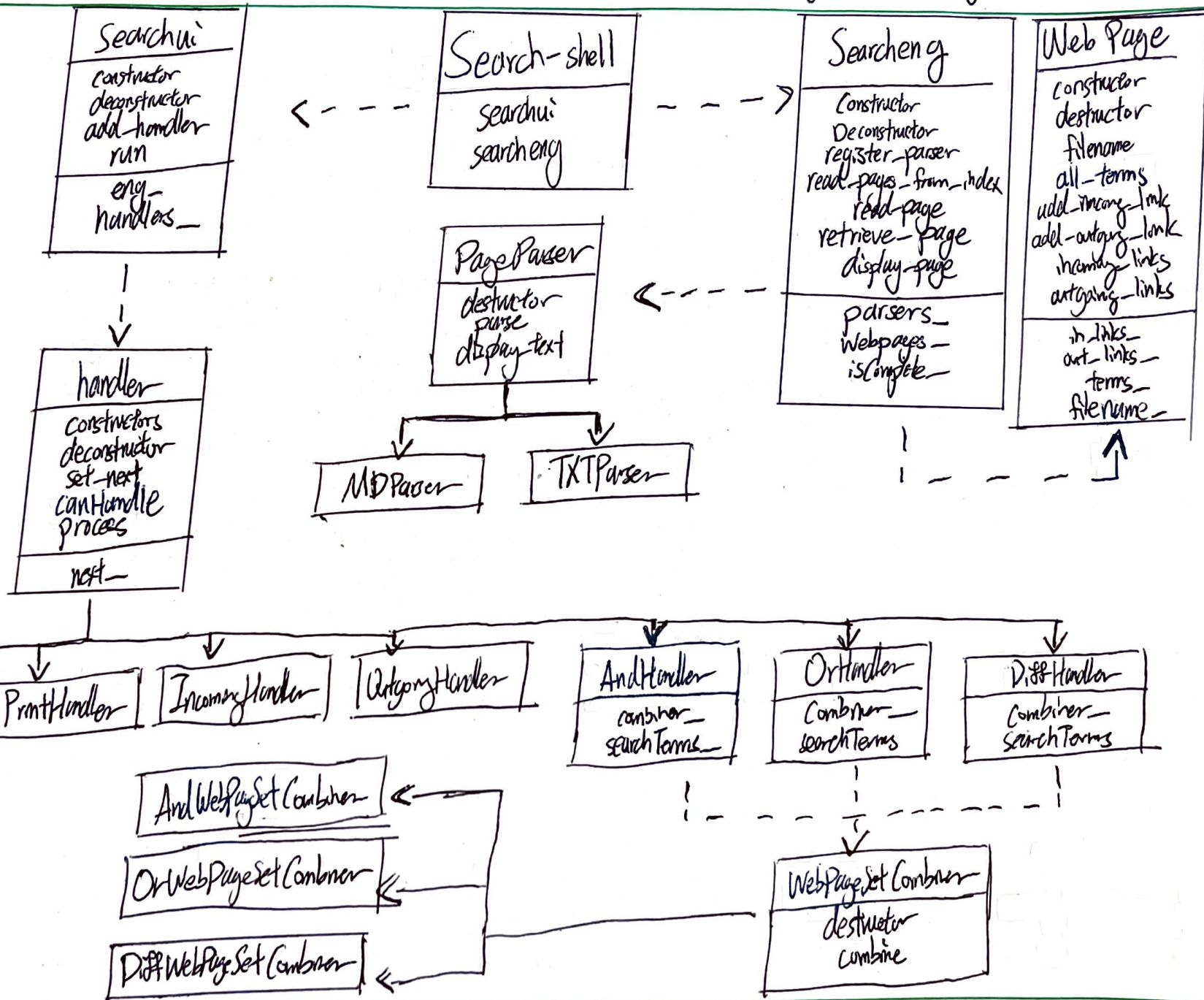


"has-a"  
--->  
composition

"is-a"  
-->  
inheritance



1. We have an abstract `PageParser` class because `PageParser` itself cannot parse a page unless it is inherited by a specific parser class. Hence the `PageParser` class is just a base point for specific parser classes, thus should be abstract so we can't declare a `PageParser`.

The virtual `parse` function acts to allow different file parsers to implement their own way of parsing, and when called upon a `PageParser` pointer the compiler should create the correct parse version for the specific parser.

2. The virtual `process` function acts to allow different handlers/cmd to implement their own way of processing. For instance process for `QuitHandler` and `PrintHandler` should be different because the handlers have different usages. When called upon a handler pointer, the compiler will create the correct process under the pointed handler class.

3.

`SearchUI::run()` calls `AndHandler::process()`

`AndHandler::process()` calls `SearchEng::search()`

`SearchEng::search()` calls `AndWebPageSetCombiner::combine()`

Note: the output of `combine()` gets display through `display.html()` in `process()`