WebPageSetCombiner
+ combine()

And
OR
DIFF

AndHandler
OrHandler
DiffHandler

SearchEng
+register_parser()
+ read_pages_from_index()
+ read_page()
+ retrieve_page()
+ display_page()
+ search()

- parsers_
- allOutgoinglinks
- all SearchableTerms
- pages_

PageParser
+ parse()
+ display_text()

TXTParser
+ parse()
+ display_text()

MDParser
+ parse()
+ display_text()

Handler
+handle()
+ set_next()
+ canHandle()
+ process
- next_

Search UI
+add_handler()
+ run()
- eng_
- handlers_

WebPage
+ filename()
+ all_terms()
+ all_terms()
+ add_incoming_link()
+ incoming_links()
+ add_outgoing_link()
+ outgoing_links()

- in_links
- out_links
- terms_
- filename_

PrintHandler
+canHandle()
+process()

IncomingHandler
+canHandle()
+process()

QuitHandler
+canHandle()
+process()

OutgoingHandler
+canHandle()
+process()

1. We have an abstract PageParser class so that we can use inheritance with the parsers which is where the pure virtual function comes into play because now when we call a parse it will go to the right kind of parse with whatever extension is given.

2. This process function is virtual because it processes the different comands and executes the right one based on the input

3. SearchUI::run, handler::handle, handler::process, SearchEng::search, WebPageSetCombiner::Combine

Polymorphism
So base class doesn't need to define the function