





1. We have an abstract PageParser class because if we wanted to have another parser for HTML or some other format, it would be easier to create with a base class to inherit from where we can override certain functions for our specific parser needs. We have a virtual parser function because each parser has different methods for parsing and it is easier to override the pure virtual function than create one class that can do all types of parsing.

2. The Handler class has a pure virtual function because it is a base class of many different handlers which all have different ways to process. If we wanted to have many new different handlers, we could inherit from Handler and override the process function to suit our new needs.

3. SearchUI::run() → Handler::handle() → ANDHandler::handle() → ANDHandler::canHandle() → ANDHandler::process() → ANDCombiner::combine() → SearchEng::search() → SearchEng::display - parse