**Static analysis platform requirements**

**Must have**

* The platform must have an API for other developers to interact and add to it.
* The platform must have at least one form of static analysis tool.
* The platform must represent standard code patterns in files (and extensions).
* The platform must give meta-data about functions (called from file, used by functions, its pattern, exit points, memory handles).
* The platform must consider compile type and compile flags.
* The platform must be symmetric in its analysis.
* The platform must support edit of the original code.
* The platform must support extension to patterns and meta-data.
* The platform must support extension of define/free/malloc/basic states.
* The platform must support saving documentation of the tool actions.
* The platform must support configuration of extensions and tools at any time.
* The platform must have the ability to get result of other tools and feed it to a tool that requests them.
* The platform must have REST API server to support different programming languages for the tools.

**Should have**

* The platform should support GUI.
* The platform should represent function meta-data in GUI in a way that a developer can understand.
* The platform should have a second static analysis tool.
* The platform should be configurable to which files the tool will use.

**May have**

* The platform may have a specific third static analysis tool we will explain it if all other requirements have been completed.