# CBIIT Scientific Applications Test Automation Code Review Checklist

## *Naming Convention, File Location , and Classes Location:*

* Ensure proper package name is used.
* Feature belongs under either AnalysisTools.ApplicationName.Features or ServiceNow.ApplicationName.Features.
* Pagefactory classes belong under either AnalysisTools.ApplicationName.Pages or ServiceNow.ApplicationName.Pages.
* Steps belong under either AnalysisTools.ApplicationName.Steps or ServiceNow.ApplicationName.Steps.
* Steps Implementation classes belong under either AnalysisTools.ApplicationName.StepsImplementation or ServiceNow.ApplicationName.StepsImplementation.
* Utils belong under either AnalysisTools.ApplicationName.Utils or ServiceNow.ApplicationName.Utils.
* Runners belong under either AnalysisTools.AnalysisToolsRunners or ServiceNow.ServiceNowRunners.
* All instances of pages belong in PageInitializer class which can be found under appsCommon package.

*Feature file Practices:*

* Use Declarative testing scenario.
* Tag scenario with User Story ticket number example @SS-3453.
* Tag scenario with Test Case ticket number.
* Tag Scenario with @Smoke for scenarios that fall under smoke test suite.
* Tag scenario with @Regression for scenarios that fall under regression test suite.
* Tag scenario with @Progression only for scenario being worked on.
* Tag scenario you worked on with your NIH user id, example @uddins2.

*Pagefactory Practices:*

* @FindBy used for Pagefactory.
* Elements in pagefactory have one line block comment above indicating what the element is.
* Every page must have a Non-Parametrized Constructor that initializes the pagefactory.
* Ensure pages class extends CommonUtils.

*Steps and Steps Implementation Practices:*

* Ensure Steps package has hooks class.
* Steps method should be as short as possible. If not use Steps Implementation and call Steps Implementation method in Steps class.
* Ensure both Steps and Steps Implementation class extends PageInitializer.

*Runners Practices:*

* Ensure runners is named RunApplicationNameSmokeTest, RunApplicationNameRegressionTest, and RunApplicationNameProgressionTest.
* Ensure proper tag is used for runners, example tags=@Smoke for RunApplicationNameSmokeTest.
* Use features=”src/test/java/ServiceNow/ApplicationName/Features” or features=”src/test/java/AnalysisTools/ApplicationName/Features”.
* Use glue=”ServiceNow.ApplicationName.Steps” or glue=”AnalysisTools.ApplicationName.Steps”.

*Git and Github Practices*

* Prior to committing all changes make sure Jenkins credentials are enabled in localconf.properties file .
* Ensure all changes are committed.
* When committing use message flag and put a message with application name and the change. Example “CEDCD - Added scenarios to user story 1234”. When making a change that is the similar to the previous change use “..” as commit message. Example first commit is “CEDCD - Add wait to class” and second commit “..” .
* Pull changes from master after commit.
* Fix all conflicts.
* Push changes from local to remote branch.
* Create pull request after pushing changes and ensuring changes are on remote branch.
* Notify team members pull request was created and ask for pull request to be reviewed.
* Once pull request is reviewed and accepted, all team members should pull changes.
* If pull request Is rejected, review comments and make necessary changes then repeat the previous points above.