**Group-8**

**Data Integration from different static-analysis tools**

**Project Members**: Mahender, Jitendra, Pravin

**Milestone-1**

Research (19 - 22 July)

Meeting the Mentor (22 July)

**Milestone-2**

Learning Concepts (22-23 July)

Designing (23-26 July)

Start Implementation (26-28 July)

**Milestone-3**

Verification and Review (28 July - 2 Aug)

## Expected outcome

1. A public GitHub repository
2. In the root directory of the repo:
   1. README.md describing the ‘release note’ with implemented features.
   2. A batch file called AutoBuildTest.bat that builds, runs and reports a pass-fail-status. It gives an exit-code of 0 for success and non-zero for failure. This exit-code needs to be a summary of all tests performed.
   3. And of course, directories with your source code ☺
3. The check to announce pass-fail needs to be automatic – do not rely on manual checks of console-output to verify correctness.

Results should be identical on all laptops in the team. Code must be synchronized between them via GitHub. The output of the binary needs to run on any Windows 10 PC.

Milestones:

* Milestone1: Contact mentor and introduce yourself. Commit a date for Milestone2 & 3
* Milestone2: Setup repo in GitHub with a ‘hello world’ console-application, README.md and working AutoBuildTest.bat. This will be your basis for development.

Send the URL of this repo to the following people:

* + Your mentor
  + sudeep.prasad@philips.com
  + sunil.jacob@philips.com
* Milestone3: Commit the features you will implement during the case-study. A ‘feature’ includes the following:
  + Feature statement: How would it be useful to a user?
  + Acceptance criteria: When would you say the code is proven?
  + Passing test cases that prove the above criteria (run through the above batch file)
  + Code reviewed by mentor, reworked and committed to the master in your GitHub repo
* Further milestones depend on the features you commit. Please agree them with your mentor.

Your problem statement is described below.

## Integrate data from different static-analysis tooling

The user of this application is a developer, looking to improve or fix areas in the code using static analysis. You can target either a C# developer or a Java developer

There are many static-analysis checkers in C#

<https://stackoverflow.com/questions/38635/what-static-analysis-tools-are-available-for-c>

Java also has many:

<https://stackoverflow.com/questions/97599/static-analysis-tool-recommendation-for-java>

Your console application will need to run at least two checkers on some sample-code in either C# or Java – this sample-code represents the code written by your user.

Your application must combine data from two or more checkers and make a report. Your application needs to be written in the language mentioned in the e-mail.

New checkers can keep coming, so your application needs to integrate them as they come. It should be easy for a user to get the report for his code.

At minimum, the report must contain: Different measures and their origin.

Static-analysis expert: Vellal, Dattatreya <dsvellal@philips.com>