OPD_Bare Necessities

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1.0/Apr 2008	Shogan	Base Document	Ananth RK	Apr 2008	Apr 2008	Apr 2008
1.1 / Nov 15, 2008	5G PG Team	Adopted new naming conventions, Added sections on engineering documents etc,	Sumitra Seshan	Nov 15, 2008	Jan 15, 2009	Jan 15, 2009
1.2/ Dec 12, 2011	5G PG Team	Added general necessities section				
1.3 / 08 May 2016	Badri	Rephrased the bare necessities section, removed .net specific sections.	Ananth RK			08 May 2016

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1. Introduction

1.1 *Purpose*

This document lists the must-follow engineering processes for every project involving code development.

1.2 *Audience*

All members of 5G engineering group.

2. Bare necessities

All development initiatives in 5G must meet the following bare necessities:

1. Each project must have a standard coding style guideline and must follow it. Projects can also adopt coding style tools like StyleCop/FxCOP, Pep as available for .Net and Python.

2. Have automated test cases. This should at least include functional unit tests and integration tests.

3. The project's code repository must have separate branches for development and shall have only one main branch. The project's leader(s) will be the only person(s) that shall have write access to the main branch.

4. Code review requests to be sent to reviewers against the development branches. Upon closure of the code review issues, the project leader(s) will then merge the changes to the main branch. This ensures the main branch will not have any code without reviews.

5. Have automated script(s) to build and deploy the code from the main branch. During the build, the automated test cases shall be executed and only upon all test cases are passed, the deployment of code shall be started. Build failures during this build is to be considered as critical failure of the project. Team can adopt tools like Jenkins for deploying and scheduling these automated script(s) for continuous integration and deployment.