

# CGI POC

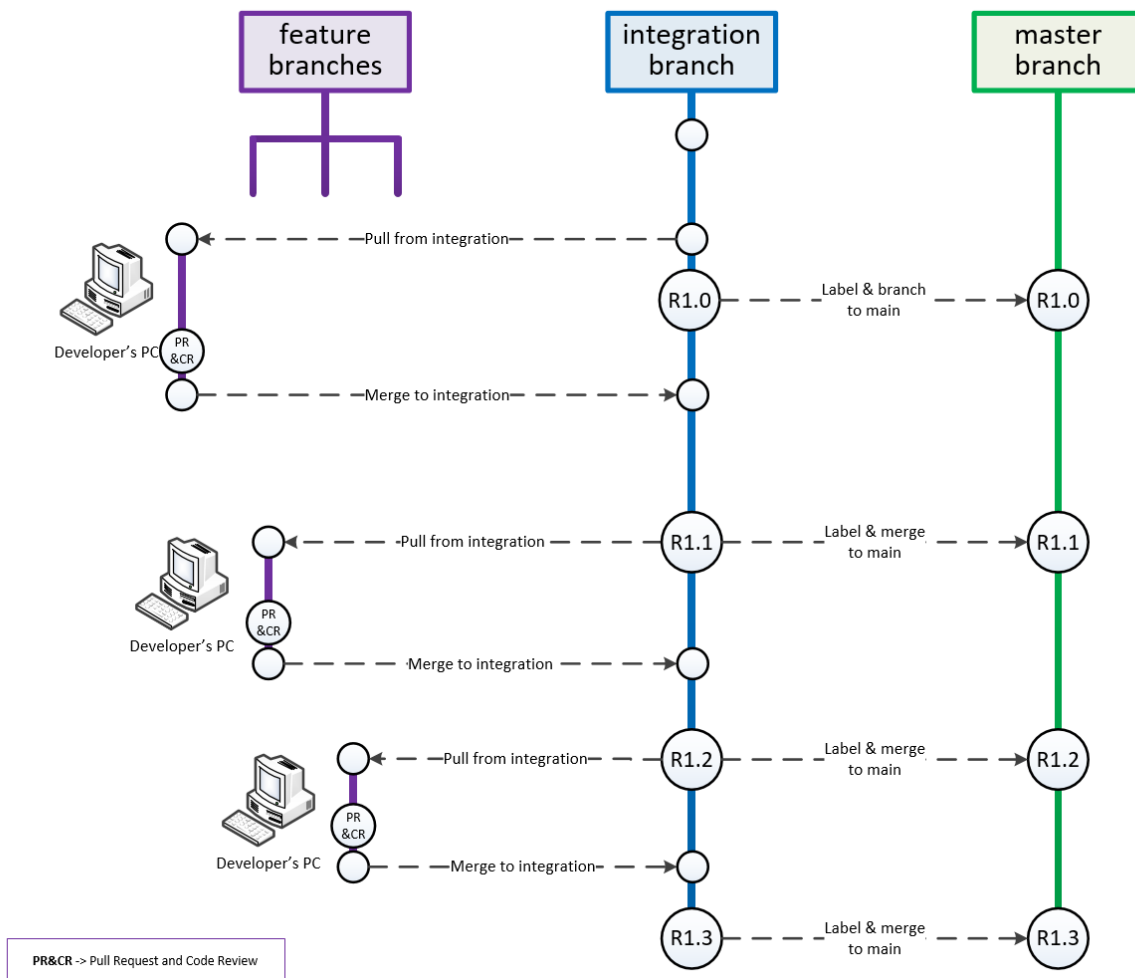
## Code Management

### Introduction

This document explains the CGI approach to source code management during the ADPQ POC: feature branch, write code, code review, and merge feature branch to integration branch. Developer collaboration and peer review roles are also outlined.

### Process

The following picture depicts the source code management:



Steps:

- 1) The developer creates a Feature branch from the Integration branch in their local environment
- 2) The developer writes Unit Tests and Source Code for the feature.
- 3) The developer makes sure the unit tests run successfully using the latest version of the integration branch.
- 4) The developer initiates a "Pull Request" when he/she is ready to merge the feature branch into the integration branch.
- 5) The "Pull Request" triggers a Code Review.
- 6) A pre-assigned developer or technical architect starts the code peer review of the feature. The code peer review includes the following check list:
  - a. The branch is a feature branch
  - b. Compliance with the project code standards.
    - i. Unit tests
    - ii. Source code management
    - iii. Naming conventions
    - iv. Reuse conventions
    - v. Error handling
  - c. Execute unit tests to make sure the new code does not break other components' source code.
- 7) Peer Code review result is PASS/FAIL. If PASS the feature branch is merged in the Integration branch. If FAIL, the developer is notified of the issues to fix.
- 8) If the code review Failed, and the developer fixes the issues, start this process at step 2)