MASTER

HOT_FIX

PRODUCTION

UAT / RELEASE

DEVELOP

Feature Branch 1 **Feature Branch 2** **Feature Branch 2** • • • **Feature Branch N**

The master branch will act the backup and code source branch for all developers to pull latest code from.
This branch will be synced after each deployment cycle after it has been determined that the latest code is stable and working.

All developers will clone this branch into their own feature branch during each new development cycle.

There are two scenarios here:
1, Happy
This is where there are no post-production issues reported and the deployment has been deemed to be stable.
When post-prod testing completes, the code in the production branch will be push into master, replacing the older version.
2, Hot Fix
This is where post-prod issues are reported. When post-prod issues are reported, the production branch will be cloned into a hot fix branch where all reported issues will be fixed.
In the meanwhile, the particular affected features will be pulled from the master branch (which has older stable version of that feature), cloned into deployment and that code will be deployed as a contingency (while hot fix issues are being managed).
Once all post-prod issues have been addressed, the hot fix branch will be merged with the deployment branch. The deployment branch should now have stable latest code that is deployed on the production server. This code will then be pushed into master, syncing the master branch with the latest code.

This branch is to be used only to address post-production issues.
Whenever a post-prod issue list is reported, the deployment branch with the latest code will be immediately cloned into this branch, the developers working on the hot fix will make their changes are push to this branch for testing and confirmation of code stability.

When all issues have been fixed, this branch will be merged back with the deployment branch with the latest, stable code for all affected features.

The production branch is the one from which the latest code to be deployed in the current cycle will be pulled. This branch shall remain one version ahead of master until the current deployment is stable and has no issues.

The release branch will be pulled from the develop branch and the code there will be deployed on the UAT environment for the QA team to perform pre-production testing.

The develop branch will be used to collect all the implemented features and will act as the source branch for latest code to be pushed into the release branch. Each implemented feature will be merged with this branch individually.

All Feature branches will be created by cloning from the master branch.

Before cloning from master, please ensure master branch has been synced up with the production branch's latest deployment.

DEVELOPER NOTE: When your feature has been implemented and is ready for testing, please submit a merge request and let the maintainer of the repository know.