

Figure 26: Bug Fix Workflow

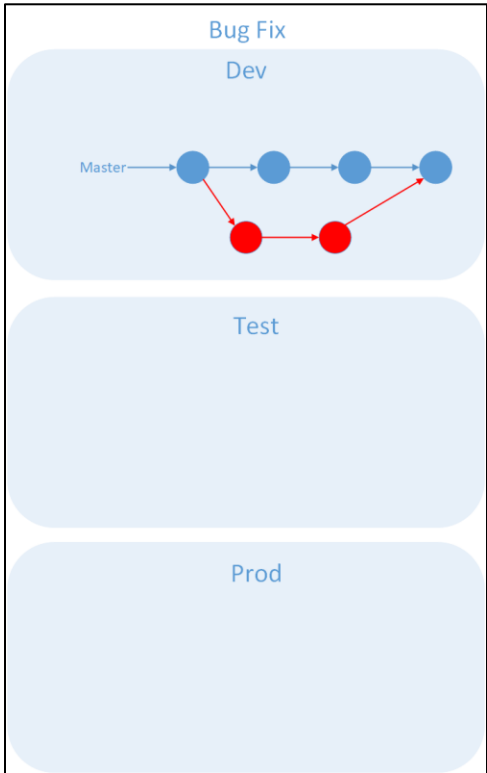
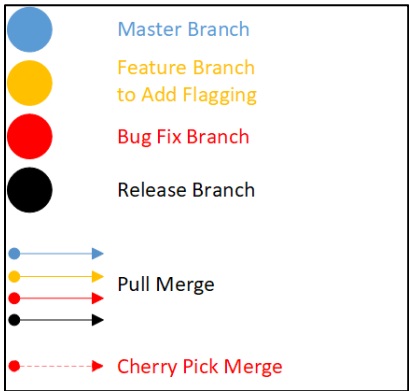


Figure 27: Quick Reference Legend



5.3 Promote to Dev Run User

After a minimal viable product is ready to be promoted to the run user playpen on the development server, create a branch off the master and name the branch using a release version for easy reference ([Figure 28](#)). This branch is then checked out to the runuser directory on the development server. The following workflow is completed off the master remote repository for the project.

Example Workflow

```
git pull
```

Create branch

```
git checkout -b <Release Name>
```

Push new branch to the remote repository

```
git push -u origin <branch name>
```

If this is the first promotion to test navigate to the run user directory on the Test server:

```
git checkout <remote repo location>
```

Otherwise pull the most recent code:

```
git pull
```

Switch to the appropriate branch:

```
git checkout <Release Name>
```

Figure 28: Dev Promotion Workflow

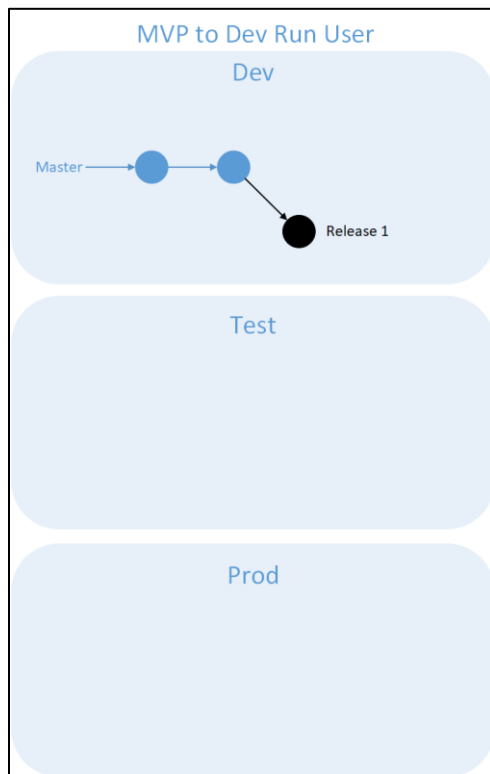
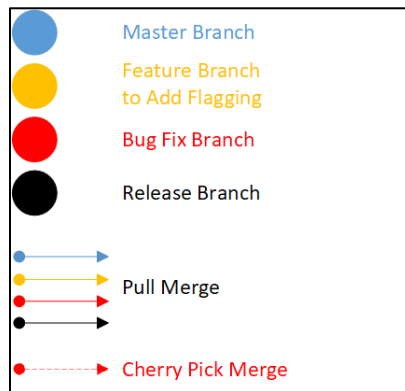


Figure 29: Quick Reference Legend

5.4 New Feature Post-MVP

To add a new feature to the application, first create a feature branch off of the master ([Figure 30](#)). From there, add feature flagging logic (see [Section 4.4](#) for more information) to toggle the new feature on and off. After the conditional logic is in place, merge the feature branch back into master. From this point, new feature code is developed in the master branch.

Example Workflow

git pull

Create branch

git checkout -b <branch Name>

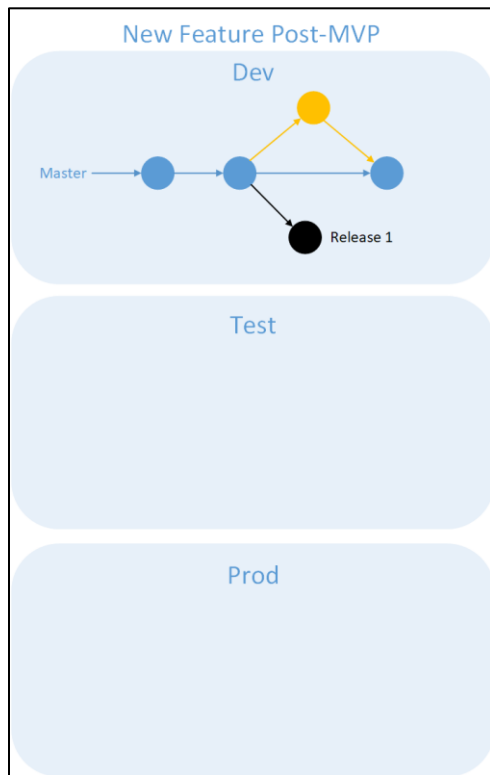
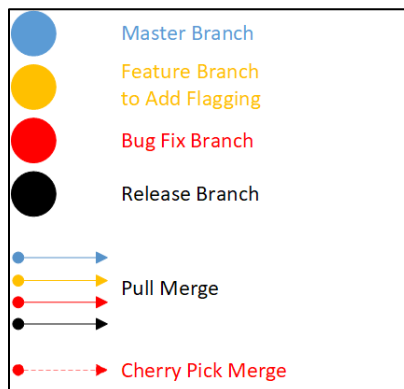
Update code

git commit -m "<description>" <new code>

Push new branch to the remote repository

git push -u origin <branch name>

Merge the changes into the master branch of the Git repository (see [Section 4.6](#)).

Figure 30: New Feature Workflow**Figure 31: Quick Reference Legend**

5.5 Bug Fix in Dev

Follow the *Bug Fix* steps outlined previously in Section 5.2. After the update has been merged into the main master repository (Figure 32), the owner or maintainer of the main repository needs to complete the following steps.

Retrieve the sha key for the update to the master branch:

```
git log
```

(Copy the long string of alpha numeric characters following the appropriate commit in the log. Type 'q' to escape the log.)

Switch back to the release branch

```
git checkout <release branch>
```

Cherry-pick the changes into the release branch using the copied sha key

```
git cherry-pick -x <sha key>
```

Push the change to the remote repository:

```
git push
```

Navigate to the runuser directory on the development server and pull down the changes:

```
git pull
```

Figure 32: Bug Fix Post-Dev Deployment Workflow

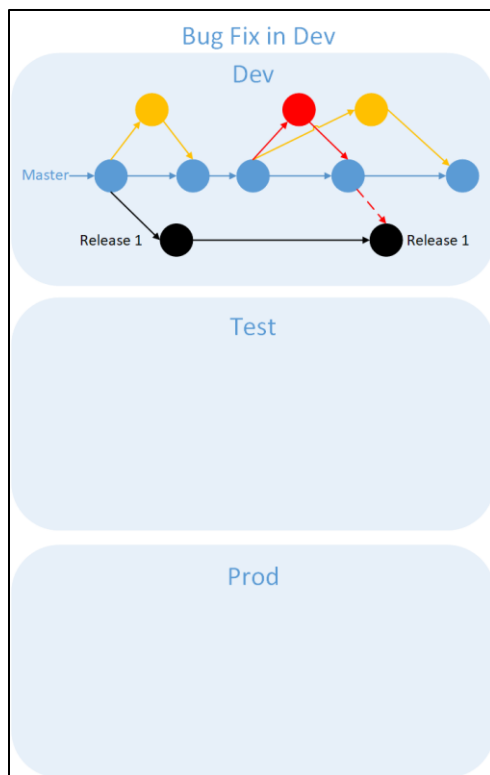
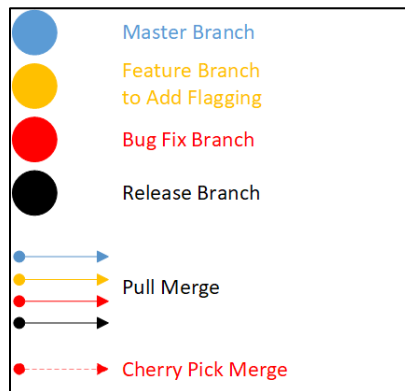


Figure 33: Quick Reference Legend

5.6 Promotion to Test

When code is ready to be promoted to the testing environment, check out the appropriate release branch to the run user directory on the Test server ([Figure 34](#)). The following workflow is completed off the main remote repository for the project.

Example Workflow

If this is the first promotion to test navigate to the run user directory on the Test server:

```
git checkout <remote repo location>
```

Otherwise, pull the most recent code:

```
git pull
```

Switch to the appropriate branch:

```
git checkout <Release Name>
```