Git Work Flow Lab

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## Learning Objectives:

* Review GIT, familiarize with common ways to use GIT in collaborative way

<https://www.atlassian.com/git/tutorials/comparing-workflows#gitflow-workflow>

* Learn the "GitFlow" work flow:

<http://nvie.com/posts/a-successful-git-branching-model/>

## Steps

1. Rename this file, and fill in boxes below.
2. Review git, and discuss pros and cons of the various workflows with your team.
3. Agree on workflow (we suggest "GitFlow"). Write it out in your own words. State the steps clearly. Make sure all team members have same understanding.

Our Team's Workflow:

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| Gitflow Work Flow- In this workflow, our repo will be divided into 2 main branches- master and develop.  In order to maintain this workflow, each group member will create a separate branch off of develop called “*member\_names*-feature”. This personal branch is where changes and files will be committed and merged to the develop branch.  After testing and evaluation, the develop branch code will then be merged with the master branch on production release, upon approval by all group members. This workflow will minimize the number of merge conflicts and bugs on product updates and on release. |

1. As a team, go through the motions of creating, and developing, a new project, using your agreed workflow. Every team member, in a local directory, must create some file (like "bob.txt"), and contribute it to the repository.

If you are using Gitflow, it might look like this:

* Each contributor clone from GitHub
* Each contributor should branch from "develop"
* Do some work (commit)
* Each contributor's feature branch should merge (or pull-request) into "develop"
* Repeat last 2 steps a few times (optional)
* Finally, the "develop" branch should merge (or pull-request) into "master"

1. From GitHub, look at the develop branch.

Our Team's Develop Branch

Patrick’s files/commit

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| Paste screen capture image of "Code" tab from on GitHub showing your develop branch files.  Each contributor's file should be visible. |

1. From GitHub, look at the Network Graph, which demonstrates your workflow.

If you followed Gitflow, it should look something like the diagrams in the websites above. Each contributor's name (ie, GitHub ID) should be visible.

Our Network Graph

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| Paste image of graph here: |

## Submission

Submit this document to D2L.

For the remainder of this lab period, work on your Agile spread-sheet product backlog.