Assignment 2 (Git/Github)

1. Give 3 reasons this team will benefit from using Git instead of Google Drive for managing the Codebase.

→ The 3 reasons that will benefit the team by using Git are:

- Branching Capabilities:

  Git branches are cheap and easy to merge.

  This provides the feature branch workflow popular with Git users.

- Distributed Development:

  In Git each developer gets their own local repository with full history.

  Having full local history makes Git fast.

  It also makes easier to scale your team.

- Pull Requests:

  Pull requests is a way to ask another developer to merge one of your branches into their repository.

  This help team leads to keep track of changes and also let developers initiate discussions around their work before integrating with rest of the codebase

2. Which 3 features of Git should this team learn to be successful?

→ The 3 features that the team should learn are:

- Branching:

  Branches are the perfect tool to avoid mixing different line of development.

  Branching also decreases conflicts when merging workflows.

  It is used for new features ,bug fixes,experiments or ideas.

- Stashing the work:

  "git stash" is the command that let us save our unfinished changes in a stack where we can retrieve it anytime.

  Stash also allows us to save ideas for that one feature that popped in our mind late last night.

- Squash and Merge:

  To create a cleaner commit history we can squash and merge commits into a single one when pull requests are finally merged.

  As each pull request can have multiple commits, Having fewer commits in history makes it easier to track down issues.

3. What are 3 common mistakes people make when using Git in a team ?

→ The 3 common mistakes people make when using Git in a team are:

- Not using Branching properly:

  If branching is not used properly confusion occurs due to Mixing of different line of development.

- Not giving proper commit messages:

  Commit messages should be proper to avoid confusion in future.

  Proper commit messages also help others to help understand your development.

- Committing changes to (local)Master:

  This mistake happens when the user forgets to create own branch or forgot to checkout to own branch and types “git commit”.