Questions:

Resolve the following questions and submit them:

1. Git Practice
2. Install GitHub Desktop in your local device and connect it to your Github account.
3. Create a Git repository on the GitLab server. Name your repository CS290-W23-HW7-<YourFirstName><YourLastName>. Be sure to choose add your group members to this repository. Add a README file to the remote repository. In the README file, add your first and last name.
4. Include a link that we can use to clone this repository in the PDF file that you submit it in your Assignment solution.
5. Now clone your remote Git repository. In your local repository create the branches and commits shown in the graph and table below. This simulates a team working on a project. When you are finish push your local repository to your remote repository.

Diagram

Description automatically generated

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **commit** | **type** | **fileA.txt content** | **create on branch** | **commit message** | **parents** | **notes** |
| A |  | N/A |  |  |  | README.md  file from clone |
| B |  | Create fileA.txt (empty file) | master | add fileA.txt | A |  |
| C |  | feature 1 | feature1 | add feature 1 | B |  |
| D |  | feature 1 with 1 bug | feature1 | feature 1 enhancement | C |  |
| E | merge commit (not a fast- forward  merge) \* | feature 1 with 1 bug | master | Merge branch ‘feature 1’ | B, D | Tag as **v1.0** and delete feature1 label. |
| F |  | feature 1 with 1 bug  feature 2 | feature2 (remember to create branch off tip of  master) | add feature 2 | E |  |
| G |  | feature 1 with bug fix | Bugfix (remember to create branch off tip of  master) | fix feature 1 bug | E |  |
| H | merge commit (not a fast- forward  merge) \* | feature 1 with bug fix | master | Merge branch ‘bugfix’ | E, G | Tag as **v1.01** and delete bugfix label. |
| I | merge commit | feature 1 with bug fix feature 2 | master | Merge branch ‘feature2’ | F, H | You will need to resolve the merge conflict.  Delete feature2 label. |

\* In the merge dialog box, remember to check the box “Create a commit even if merge resolved via fast-forward.”

Reference for Github: <https://www.youtube.com/watch?time_continue=1176&v=8Dd7KRpKeaE&embeds_euri=https%3A%2F%2Flms.imamu.edu.sa%2F&feature=emb_logo>