Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git init

Reinitialized existing Git repository in C:/Users/Full Stack/OneDrive/Desktop/Venus/Venus/.git/

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git status

On branch master

nothing to commit, working tree clean

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch

bugfix/change-password

feature/send-email

feature/shopping-cart

\* master

1. **Create a new branch called feature/login. Switch to the new branch.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch -C feature/login

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch

bugfix/change-password

feature/login

feature/send-email

feature/shopping-cart

\* master

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch feature/login

fatal: a branch named 'feature/login' already exists

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git switch feature/login

Switched to branch 'feature/login'

1. **Show all the branches.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/login)

$ git branch

bugfix/change-password

\* feature/login

feature/send-email

feature/shopping-cart

master

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/login)

$

1. **Update file1.txt in the current branch (feature/login) and make a new commit.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/login)

$ echo "Change text within file1.txt" > file1.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/login)

$ git status -s

?? file1.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/login)

$ git commit -am "file1.txt added to branch (feature/login) and committed."

On branch feature/login

Untracked files:

(use "git add <file>..." to include in what will be committed)

file1.txt

nothing added to commit but untracked files present (use "git add" to track)

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/login)

$ git add .

warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/login)

$ git commit -m "file1.txt added to branch (feature/login) and committed"

[feature/login 844187f] file1.txt added to branch (feature/login) and committed

1 file changed, 1 insertion(+)

create mode 100644 file1.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/login)

$ git status

On branch feature/login

nothing to commit, working tree clean

1. **Show commits across all branches.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/login)

$ git log --oneline --all

844187f (HEAD -> feature/login) file1.txt added to branch (feature/login) and committed

dc77a4d (master) file toc.txt removed

9a993c2 (feature/send-email) Update toc.txt

d0da027 (feature/shopping-cart) Update toc.txt

bdd03b0 File cart.txt added to working area

6567bd7 Update toc.txt

c5b0522 Update toc.txt

b27d149 Fix the bug on the photo upload page.

34f52d3 Revert "Merge branch 'bugfix/change-password'"

792f14b Merge branch 'bugfix/change-password'

b136de5 Update change-password.txt

3744fb4 (bugfix/change-password) Update change-password.txt

282e70f Merge branch 'feature/change-password'

b8661ab Update objectives.txt

975358b new file added to 'change-password.txt'

d3c6065 Merge branch 'bugfix/login-form'

f660dee File toc.txt added for commit

22a75fd Fixed merge conflicts using VSCode. Issue now resolved. Will commence committing file first, then merging again.

b2d9c9d File in Master branch now committed.

35d7d0d fix the bug that prevented the users from signing up.

2bfe7ea (tag: v1.0) Remove toc.txt

a642e12 Add header to all pages.

50db987 Include the first section in TOC.

555b62e Include the note about committing after staging the changes.

91f7d40 Explain various ways to stage changes.

edb3594 First draft of staging changes.

24e86ee Add command line and GUI tools to the objectives.

36cd6db Include the command prompt in code sample.

9b6ebfd Add a header to the page about initializing a repo.

fa1b75e Include the warning about removing .git directory.

dad47ed Write the first draft of initializing a repo.

fb0d184 Define the audience.

1ebb7a7 Define the objectives.

ca49180 Initial commit.

1. **Switch back to the master branch. Show the commits in the feature branch that don’t exist on the master.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/login)

$ git checkout master

Switched to branch 'master'

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git log master..feature/login

commit 844187f2b4990e9d776a43dbf1c8014347be6017 (feature/login)

Author: Michael V Proctor <V18041965@hotmail.com>

Date: Wed Feb 7 16:54:53 2024 -0500

file1.txt added to branch (feature/login) and committed

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch -d feature/login

Deleted branch feature/login (was 844187f).

1. **View the difference between master and feature/login.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git diff master..feature/login

**diff --git a/file1.txt b/file1.txt**

**new file mode 100644**

**index 0000000..a3c237f**

**--- /dev/null**

**+++ b/file1.txt**

@@ -0,0 +1 @@

+Change text within file1.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$

1. **Merge feature/login into master.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git merge feature/login

Updating dc77a4d..844187f

Fast-forward

file1.txt | 1 +

1 file changed, 1 insertion(+)

create mode 100644 file1.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$

1. **View the merged and unmerged branches.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch --merged

bugfix/change-password

feature/login

feature/shopping-cart

\* master

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch --no-merged

feature/send-email

1. **Delete the feature branch.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch -d feature/login

Deleted branch feature/login (was 844187f).

1. **Create a new branch called feature/logout. On this branch, write blue to file1.txt and make a commit.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git checkout -b feature/logout

Switched to a new branch 'feature/logout'

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ echo blue >> file1.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ git commit -m "Commit added to file1.txt on new branch (feature/logut)"

On branch feature/logout

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: file1.txt

no changes added to commit (use "git add" and/or "git commit -a")

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ git add .

warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ git commit -m "Commit added to file1.txt on new branch (feature/logut)"

[feature/logout b2ef534] Commit added to file1.txt on new branch (feature/logut)

1 file changed, 1 insertion(+)

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ git status -s

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ git status

On branch feature/logout

nothing to commit, working tree clean

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$

**Try to merge your feature branch into master. You will see a conflict . Resolve the conflict by accepting both changes. When your are done merging, delete the new branch.**

**\*\*\* Unable to artificially create a Merge-Conflict \*\*\*\***

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ git switch master

Switched to branch 'master'

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git ls-files

audience.txt

cart.txt

change-password.txt

file1.txt

objectives.txt

sales-page.txt

sections/creating-snapshots/init.txt

sections/creating-snapshots/staging-changes.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ cat file1.txt

Change text within file1.txt

blue

Blue is the color of the sky

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git switch feature/logout

Switched to branch 'feature/logout'

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ cat file1.txt

Change text within file1.txt

blue

Blue is the color of the sky

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ vi file1.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ git status -s

M file1.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ git commit -am "file1.txt modified in branch feature/logout"

[feature/logout b63f462] file1.txt modified in branch feature/logout

1 file changed, 1 insertion(+), 1 deletion(-)

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (feature/logout)

$ git switch master

Switched to branch 'master'

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ ^C

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git merge feature/logout

Updating de45729..b63f462

Fast-forward

file1.txt | 2 +-

1 file changed, 1 insertion(+), 1 deletion(-)

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch -d feature/logout

Deleted branch feature/logout (was b63f462).

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$

1. **Create a new branch called bugfix/login. On this branch, write orange to file1.txt and make a commit.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git checkout -b bugfix/login

Switched to a new branch 'bugfix/login'

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (bugfix/login)

$ echo "Orange" >> file1.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (bugfix/login)

$ git commit -am "Commit made to file1.txt; the word Orange inserted into file."

warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it

[bugfix/login 29eb113] Commit made to file1.txt; the word Orange inserted into file.

1 file changed, 1 insertion(+)

**Switch back to master, write green to file2.txt and make another commit.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (bugfix/login)

$ git switch master

Switched to branch 'master'

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ echo "Green" > file2.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git status -s

?? file2.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git add .

warning: in the working copy of 'file2.txt', LF will be replaced by CRLF the next time Git touches it

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git commit -m "New file 'File2.txt' added for commit."

[master f2903c9] New file 'File2.txt' added for commit.

1 file changed, 1 insertion(+)

create mode 100644 file2.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$

**View a graph of your branches. You will see a divergence.**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git commit -m "New file 'File2.txt' added for commit."

[master f2903c9] New file 'File2.txt' added for commit.

1 file changed, 1 insertion(+)

create mode 100644 file2.txt

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git log --oneline --all --graph

\* f2903c9 (HEAD -> master) New file 'File2.txt' added for commit.

| \* 29eb113 (bugfix/login) Commit made to file1.txt; the word Orange inserted into file.

|/

\* b63f462 file1.txt modified in branch feature/logout

\* de45729 second file added to branch (feature/logout) to artifically create merge conflict.

\* b2ef534 Commit added to file1.txt on new branch (feature/logut)

\* 844187f file1.txt added to branch (feature/login) and committed

\* dc77a4d file toc.txt removed

| \* 9a993c2 (feature/send-email) Update toc.txt

|/

\* d0da027 (feature/shopping-cart) Update toc.txt

\* bdd03b0 File cart.txt added to working area

\* 6567bd7 Update toc.txt

\* c5b0522 Update toc.txt

\* b27d149 Fix the bug on the photo upload page.

\* 34f52d3 Revert "Merge branch 'bugfix/change-password'"

\* 792f14b Merge branch 'bugfix/change-password'

|\

| \* 3744fb4 (bugfix/change-password) Update change-password.txt

\* | b136de5 Update change-password.txt

|/

\* 282e70f Merge branch 'feature/change-password'

|\

| \* 975358b new file added to 'change-password.txt'

\* | b8661ab Update objectives.txt

|/

\* d3c6065 Merge branch 'bugfix/login-form'

|\

| \* f660dee File toc.txt added for commit

|/

\* 22a75fd Fixed merge conflicts using VSCode. Issue now resolved. Will commence committing file first, then merging again.

|\

| \* 35d7d0d fix the bug that prevented the users from signing up.

\* | b2d9c9d File in Master branch now committed.

|/

\* 2bfe7ea (tag: v1.0) Remove toc.txt

\* a642e12 Add header to all pages.

\* 50db987 Include the first section in TOC.

\* 555b62e Include the note about committing after staging the changes.

\* 91f7d40 Explain various ways to stage changes.

\* edb3594 First draft of staging changes.

\* 24e86ee Add command line and GUI tools to the objectives.

\* 36cd6db Include the command prompt in code sample.

\* 9b6ebfd Add a header to the page about initializing a repo.

\* fa1b75e Include the warning about removing .git directory.

\* dad47ed Write the first draft of initializing a repo.

\* fb0d184 Define the audience.

\* 1ebb7a7 Define the objectives.

\* ca49180 Initial commit.

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

**Divergence is occurring between Sha1 Hashes {** b63f462 and f2903c9 }

**Rebase the new branch on top of master**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git rebase master

Current branch master is up to date.

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git log --oneline --all --graph

\* f2903c9 (HEAD -> master) New file 'File2.txt' added for commit.

| \* 29eb113 (bugfix/login) Commit made to file1.txt; the word Orange inserted into file.

|/

\* b63f462 file1.txt modified in branch feature/logout

\* de45729 second file added to branch (feature/logout) to artifically create merge conflict.

\* b2ef534 Commit added to file1.txt on new branch (feature/logut)

\* 844187f file1.txt added to branch (feature/login) and committed

\* dc77a4d file toc.txt removed

| \* 9a993c2 (feature/send-email) Update toc.txt

|/

\* d0da027 (feature/shopping-cart) Update toc.txt

\* bdd03b0 File cart.txt added to working area

\* 6567bd7 Update toc.txt

\* c5b0522 Update toc.txt

\* b27d149 Fix the bug on the photo upload page.

\* 34f52d3 Revert "Merge branch 'bugfix/change-password'"

\* 792f14b Merge branch 'bugfix/change-password'

|\

| \* 3744fb4 (bugfix/change-password) Update change-password.txt

\* | b136de5 Update change-password.txt

|/

\* 282e70f Merge branch 'feature/change-password'

|\

| \* 975358b new file added to 'change-password.txt'

\* | b8661ab Update objectives.txt

|/

\* d3c6065 Merge branch 'bugfix/login-form'

|\

| \* f660dee File toc.txt added for commit

|/

\* 22a75fd Fixed merge conflicts using VSCode. Issue now resolved. Will commence committing file first, then merging again.

|\

| \* 35d7d0d fix the bug that prevented the users from signing up.

\* | b2d9c9d File in Master branch now committed.

|/

\* 2bfe7ea (tag: v1.0) Remove toc.txt

\* a642e12 Add header to all pages.

\* 50db987 Include the first section in TOC.

\* 555b62e Include the note about committing after staging the changes.

\* 91f7d40 Explain various ways to stage changes.

\* edb3594 First draft of staging changes.

\* 24e86ee Add command line and GUI tools to the objectives.

\* 36cd6db Include the command prompt in code sample.

\* 9b6ebfd Add a header to the page about initializing a repo.

\* fa1b75e Include the warning about removing .git directory.

\* dad47ed Write the first draft of initializing a repo.

\* fb0d184 Define the audience.

\* 1ebb7a7 Define the objectives.

\* ca49180 Initial commit.

**View the graph of branches again. Note that the divergence is gone.**

**Do a fast-forward merge to bring the changes in the bugfix branch into the master.**

A screen shot of a computer

Description automatically generated

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git merge bugfix/login

Merge made by the 'ort' strategy.

file1.txt | 1 +

1 file changed, 1 insertion(+)

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$

**Graph has now changed from SHA1 [b63f462] TO [59b6670]**

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git log --oneline --all --graph

\* 59b6670 (HEAD -> master) Merge branch 'bugfix/login'

|\

| \* 29eb113 (bugfix/login) Commit made to file1.txt; the word Orange inserted into file.

\* | f2903c9 New file 'File2.txt' added for commit.

|/

\* b63f462 file1.txt modified in branch feature/logout

\* de45729 second file added to branch (feature/logout) to artifically create merge conflict.

\* b2ef534 Commit added to file1.txt on new branch (feature/logut)

\* 844187f file1.txt added to branch (feature/login) and committed

\* dc77a4d file toc.txt removed

| \* 9a993c2 (feature/send-email) Update toc.txt

|/

\* d0da027 (feature/shopping-cart) Update toc.txt

\* bdd03b0 File cart.txt added to working area

\* 6567bd7 Update toc.txt

\* c5b0522 Update toc.txt

\* b27d149 Fix the bug on the photo upload page.

\* 34f52d3 Revert "Merge branch 'bugfix/change-password'"

\* 792f14b Merge branch 'bugfix/change-password'

|\

| \* 3744fb4 (bugfix/change-password) Update change-password.txt

\* | b136de5 Update change-password.txt

|/

\* 282e70f Merge branch 'feature/change-password'

|\

| \* 975358b new file added to 'change-password.txt'

\* | b8661ab Update objectives.txt

|/

\* d3c6065 Merge branch 'bugfix/login-form'

|\

| \* f660dee File toc.txt added for commit

|/

\* 22a75fd Fixed merge conflicts using VSCode. Issue now resolved. Will commence committing file first, then merging again.

|\

| \* 35d7d0d fix the bug that prevented the users from signing up.

\* | b2d9c9d File in Master branch now committed.

|/

\* 2bfe7ea (tag: v1.0) Remove toc.txt

\* a642e12 Add header to all pages.

\* 50db987 Include the first section in TOC.

\* 555b62e Include the note about committing after staging the changes.

\* 91f7d40 Explain various ways to stage changes.

\* edb3594 First draft of staging changes.

\* 24e86ee Add command line and GUI tools to the objectives.

\* 36cd6db Include the command prompt in code sample.

\* 9b6ebfd Add a header to the page about initializing a repo.

\* fa1b75e Include the warning about removing .git directory.

\* dad47ed Write the first draft of initializing a repo.

\* fb0d184 Define the audience.

\* 1ebb7a7 Define the objectives.

\* ca49180 Initial commit.

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch --merged

bugfix/change-password

bugfix/login

feature/shopping-cart

\* master

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch -d bugfix/login

Deleted branch bugfix/login (was 29eb113).

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch --no-merged

feature/send-email

Full Stack@m622pro100 MINGW64 ~/OneDrive/Desktop/Venus/Venus (master)

$ git branch

bugfix/change-password

feature/send-email

feature/shopping-cart

\* master