# 28.4 Git overview: Homework

- 1. Create a public remote repository on github.com
- 2. Clone you repository using git CLI.
- 3. Using git CLI, in 'main' branch:
  - 1. Create 'index.html' file with any content in it and commit it
  - 2. Change the content of the file one or more times so that the file has a history
- 4. Using git CLI, in 'develop' branch create files:
  - a. README.md with the following content:

# Hello, world!

b. LICENCE.md with the following content:

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- 4. Merge 'develop' into 'main' using merge command
- 5. Push local changes to the remote repository

In your homework submission:

- provide the link to your public repository.
- provide console log (including your input and output)

Make sure you provide a meaningful commit message for each of your commits

1. Create a public remote repository on github.com https://github.com/NinaKhaytovich/Mentorpiece

#### 2. Clone you repository using git CLI.

I've started from creating directory on my PC, then cloned repository:

ninakhaytovich@Ninas-MacBook-Pro HW\_Git % git clone

git@github.com:NinaKhaytovich/Mentorpiece.git

Cloning into 'Mentorpiece'...

remote: Enumerating objects: 6, done.

remote: Counting objects: 100% (6/6), done.

remote: Compressing objects: 100% (3/3), done.

remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0

Receiving objects: 100% (6/6), done.

# 3. Using git CLI, in 'main' branch:

Here I've checked that I am in 'main' branch:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git status

On branch main

Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

#### 3.1. Create 'index.html' file with any content in it and commit it

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % echo 'Hello, beautiful world!' > index.html

#### Added created file to staging:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git add .

#### Committed a file with comment:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git commit -m 'Task 3.1, commiting just created file'

[main 46327c4] Task 3.1, committing just created file

1 file changed, 1 insertion(+)

create mode 100644 index.html

#### Pushed

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push git@github.com:NinaKhaytovich/Mentorpiece.git

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

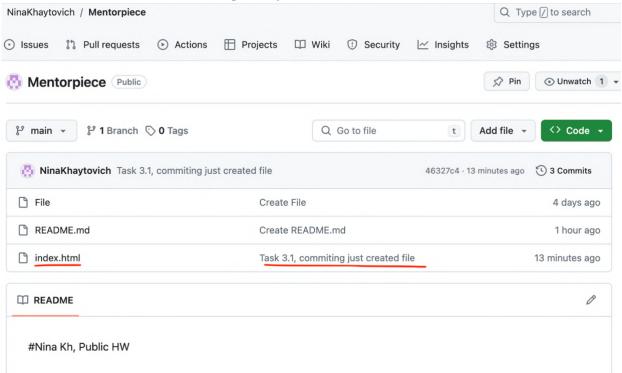
Writing objects: 100% (3/3), 352 bytes | 352.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:NinaKhaytovich/Mentorpiece.git

4b8882f..46327c4 main -> main

# Here we can see a file in repository:



# **3.2.**Change the content of the file one or more times so that the file has a history Here I've changed a file:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % nano index.html

# Added file to staging:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git add .

#### Committed a file with comment:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git commit -m 'Task 3.2. Changing the content'

[main de90e0d] Task 3.2. Changing the content

#### 1 file changed, 1 insertion(+)

#### Pushed:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push

git@github.com:NinaKhaytovich/Mentorpiece.git

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

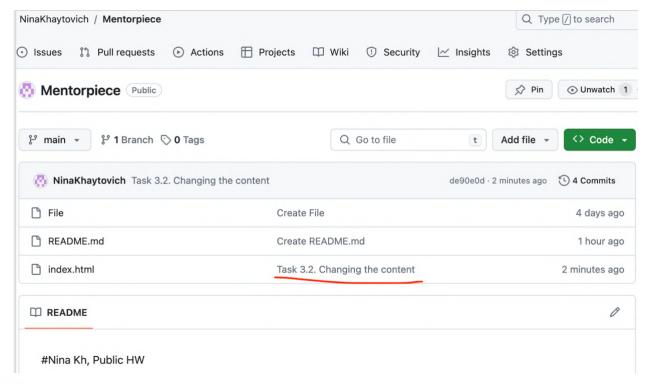
Writing objects: 100% (3/3), 320 bytes | 320.00 KiB/s, done.

Total 3 (delta 1), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To github.com:NinaKhaytovich/Mentorpiece.git

#### 46327c4..de90e0d main -> main



#### Commit



# 4. Using git CLI, in 'develop' branch create files:

Here I've created and switched on branch 'develop'

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git branch develop ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git status

On branch main

Your branch is ahead of 'origin/main' by 2 commits.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git checkout develop

Switched to branch 'develop'

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git status

On branch develop

nothing to commit, working tree clean

#### a. README.md with the following content:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % echo 'Hello, world!' > README.md

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git add README.md

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git commit -m 'Task 4.a'

[develop d9a2b28] Task 4.a

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

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push

git@github.com:NinaKhaytovich/Mentorpiece.git

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 323 bytes | 323.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

remote:

remote: Create a pull request for 'develop' on GitHub by visiting:

remote: https://github.com/NinaKhaytovich/Mentorpiece/pull/new/develop

remote:

To github.com:NinaKhaytovich/Mentorpiece.git

\* [new branch] develop -> develop

#### b. LICENCE.md with the following content:

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echo 'copyright (c) <year> <copyright holders>

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SOFTWARE.' > LICENCE.md

```
ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git commit -m 'Task 4.b' [develop 1fa39c7] Task 4.b

1 file changed, 19 insertions(+)
create mode 100644 LICENCE.md
ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push
git@github.com:NinaKhaytovich/Mentorpiece.git
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 958 bytes | 958.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
```

d9a2b28..1fa39c7 develop -> develop

To github.com:NinaKhaytovich/Mentorpiece.git

# 5. Merge 'develop' into 'main' using merge command

Here I switched from branch 'develop' to 'main':

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git branch

\* develop

main

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git checkout main

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 2 commits.

(use "git push" to publish your local commits)

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git branch

develop

\* main

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git merge -m 'Task 5 - merge develop into main' develop

Updating de90e0d..1fa39c7

Fast-forward (no commit created; -m option ignored)

LICENCE.md | 19 +++++++++++++++

README.md | 2 +-

2 files changed, 20 insertions(+), 1 deletion(-)

# 6. Push local changes to the remote repository

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push git@github.com:NinaKhaytovich/Mentorpiece.git

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:NinaKhaytovich/Mentorpiece.git

de90e0d..1fa39c7 main -> main

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git merge develop Already up to date.

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push git@github.com:NinaKhaytovich/Mentorpiece.git Everything up-to-date