

Лабораторна 2

Git і проекти

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Реєстрація на Git та завантаження ПЗ



Sign in to GitHub

Username or email address

DmytroHavryliak96

Password

.....

Sign in

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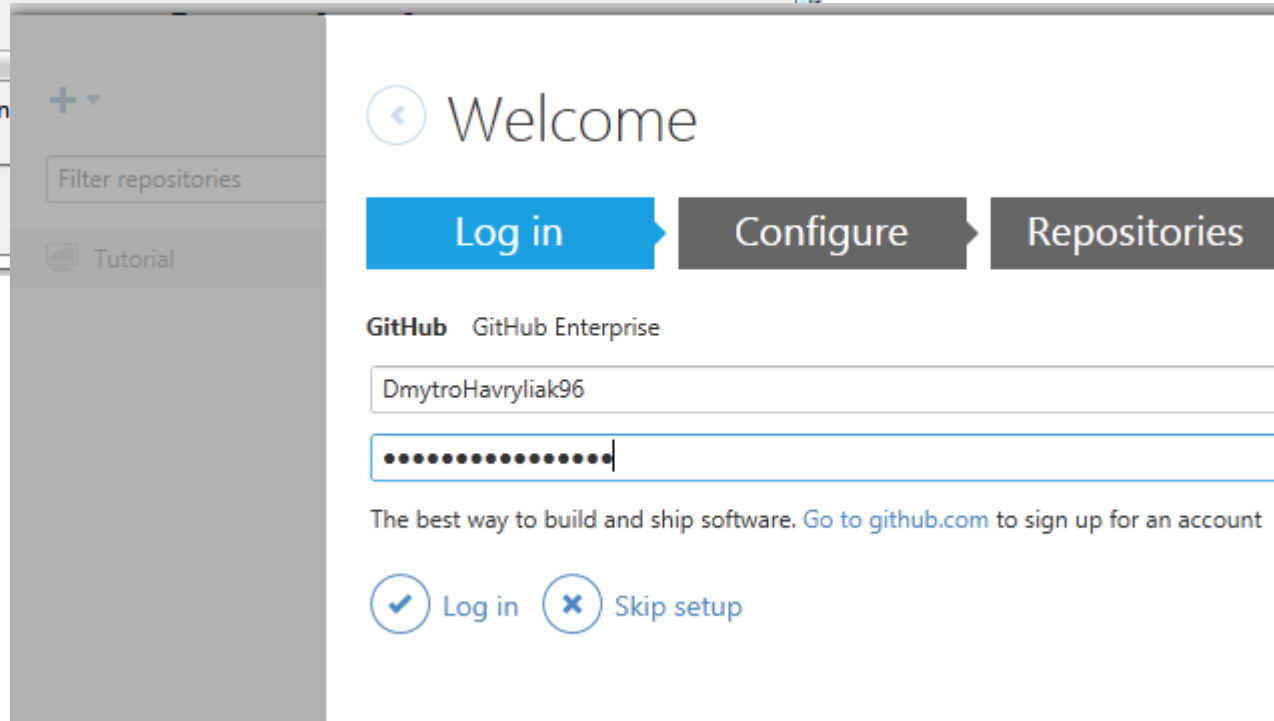
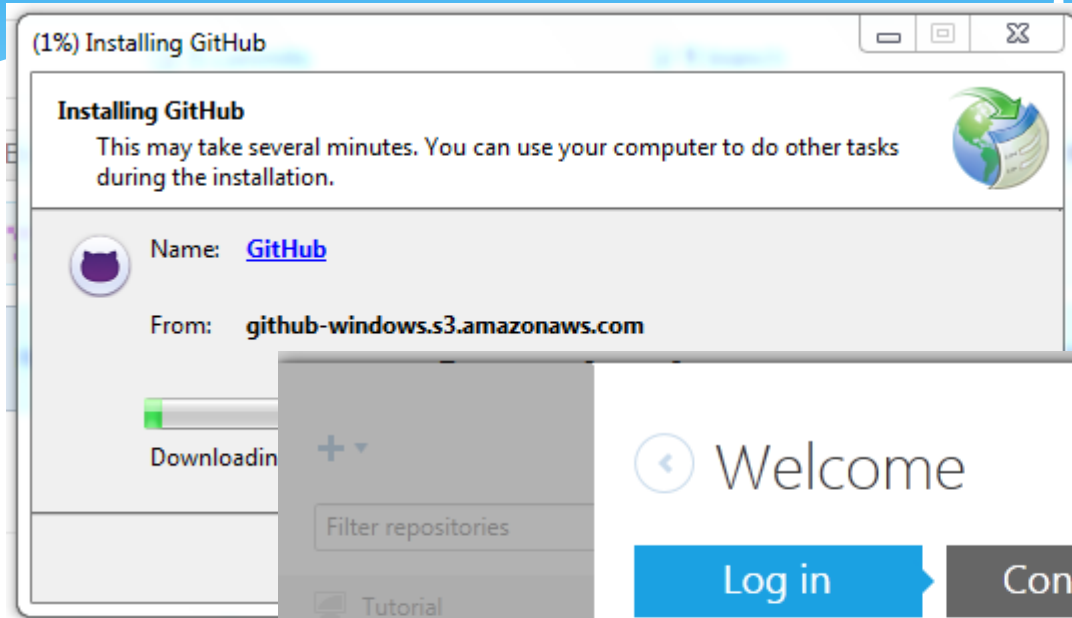
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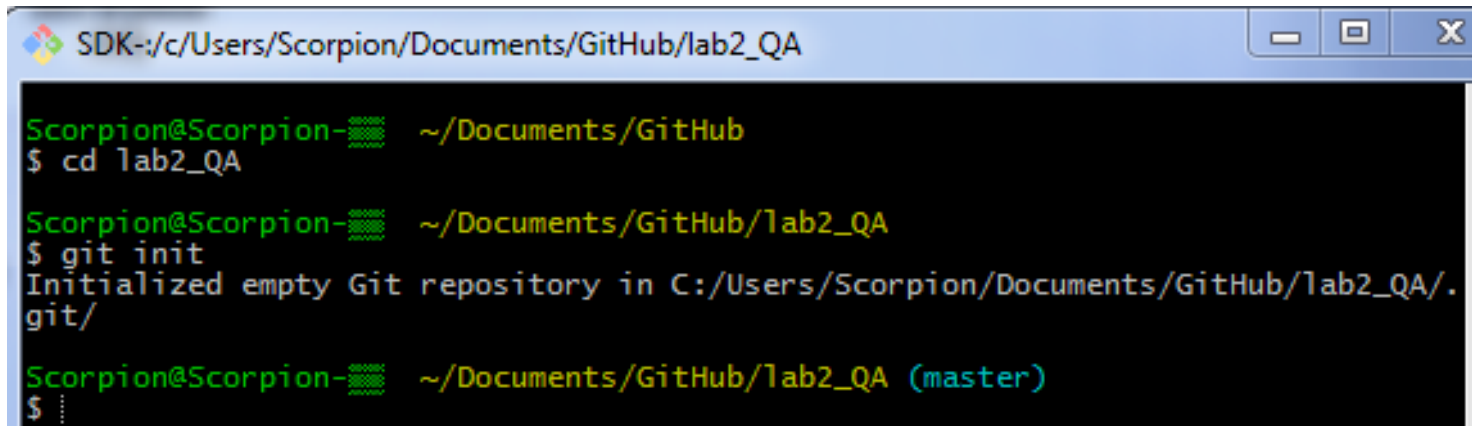
Встановлення на робочий комп'ютер



Створення репозиторію на Github



Створення локального репозиторію



```
SDK-:/c/Users/Scorpion/Documents/GitHub/lab2_QA

Scorpion@Scorpion-~$ cd lab2_QA

Scorpion@Scorpion-~/Documents/GitHub/lab2_QA$ git init
Initialized empty Git repository in C:/Users/Scorpion/Documents/GitHub/lab2_QA/.git/

Scorpion@Scorpion-~/Documents/GitHub/lab2_QA (master)$
```

Додавання файла в локальний репозиторій

```
Scorpion@Scorpion- [icon] ~/Documents/GitHub/lab2_QA (master)
$ git add Orange.txt

Scorpion@Scorpion- [icon] ~/Documents/GitHub/lab2_QA (master)
$ git status
On branch master


Initial commit


Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   Orange.txt

Scorpion@Scorpion- [icon] ~/Documents/GitHub/lab2_QA (master)
$ |
```

Закомічення файла в локальному репозиторії

```
Scorpion@Scorpion- ~/Documents/GitHub/lab2_QA (master)
$ git commit -m "Add Orange"
[master (root-commit) 4df20a8] Add Orange
1 file changed, 1 insertion(+)
create mode 100644 Orange.txt

Scorpion@Scorpion- ~/Documents/GitHub/lab2_QA (master)
$
```

Закидання змін з локального репозиторія на репозиторій, створений у 4-тому пункті

```
Scorpion@Scorpion: ~/Documents/GitHub/lab2_QA (master)
$ git remote add origin https://github.com/DmytroHavryliak96/Lab2_SoftQuality.git

Scorpion@Scorpion: ~/Documents/GitHub/lab2_QA (master)
$ git push -u origin master
git: 'credential-Advanced' is not a git command. See 'git --help'.
Counting objects: 3, done.
Writing objects: 100% (3/3), 242 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/DmytroHavryliak96/Lab2_SoftQuality.git
 * [new branch]      master -> master
Branch master set up to track remote branch master from origin.

Scorpion@Scorpion: ~/Documents/GitHub/lab2_QA (master)
$ |
```


Додавання двох файлів із закоміченням та пушанням на GitHub

```
Scorpion@Scorpion-███ ~/Documents/GitHub/lab2_QA (master)
$ git add Red.txt Yellow.txt

Scorpion@Scorpion-███ ~/Documents/GitHub/lab2_QA (master)
$ git commit -m "Add Red and Yellow"
[master 103a96f] Add Red and Yellow
2 files changed, 2 insertions(+)
create mode 100644 Red.txt
create mode 100644 Yellow.txt

Scorpion@Scorpion-███ ~/Documents/GitHub/lab2_QA (master)
$ git push -u origin master
git: 'credential-Advanced' is not a git command. See 'git --help'.
Counting objects: 4, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 368 bytes | 0 bytes/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To https://github.com/DmytroHavryliak96/Lab2_SoftQuality.git
 4df20a8..103a96f  master -> master
Branch master set up to track remote branch master from origin.

Scorpion@Scorpion-███ ~/Documents/GitHub/lab2_QA (master)
$ |
```

Відновлення до стану, який був у 8-мому пункті

```
Scorpion@Scorpion-~$ git log --oneline
103a96f Add Red and Yellow
4df20a8 Add Orange
```

```
Scorpion@Scorpion-~$ git checkout 4df2
Note: checking out '4df2'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```




```
HEAD is now at 4df20a8... Add Orange
```

```
Scorpion@Scorpion-~$ git checkout 4df20a8
Scorpion@Scorpion-~$
```

Створення клона репозиторія з GitHub в іншій папці

```
Scorpion@Scorpion-███ ~/Documents/GitHub/lab2_QA ((4df20a8...))  
$ git clone https://github.com/DmytroHavryliak96/Lab2_SoftQuality.git C:\Users\S  
corpion\Documents\GitHub\copy_repo  
Cloning into 'C:\Users\Scorpion\Documents\GitHub\copy_repo'...  
remote: Counting objects: 7, done.  
remote: Compressing objects: 100% (3/3), done.  
remote: Total 7 (delta 0), reused 7 (delta 0), pack-reused 0  
Unpacking objects: 100% (7/7), done.  
Checking connectivity... done.
```

Створення нової гілки і додавання до неї нового файла

```
Scorpion@Scorpion- ~/Documents/GitHub/lab2_QA ((4df20a8...))  
$ git checkout -b experiment  
Switched to a new branch 'experiment'  
  
Scorpion@Scorpion- ~/Documents/GitHub/lab2_QA (experiment)  
$ git add White.txt  
  
Scorpion@Scorpion- ~/Documents/GitHub/lab2_QA (experiment)  
$ |
```


Комічення змін у новій гілці і синхронізація з репозиторієм на GitHub

```
Scorpion@Scorpion-~ ~/Documents/GitHub/lab2_QA (experiment)
$ git commit -m "Add White"
[experiment 2464950] Add White
1 file changed, 1 insertion(+)
create mode 100644 White.txt

Scorpion@Scorpion-~ ~/Documents/GitHub/lab2_QA (experiment)
$ git push -u origin experiment
git: 'credential-Advanced' is not a git command. See 'git --help'.
Counting objects: 3, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 308 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/DmytroHavryliak96/Lab2_SoftQuality.git
 * [new branch]      experiment -> experiment
Branch experiment set up to track remote branch experiment from origin.

Scorpion@Scorpion-~ ~/Documents/GitHub/lab2_QA (experiment)
$
```

Об'єднання створеної гілки з ОСНОВНОЮ

```
Scorpion@Scorpion- ~/Documents/GitHub/lab2_QA (experiment)  
$ git merge master  
Merge made by the 'recursive' strategy.  
Red.txt      | 1 +  
Yellow.txt   | 1 +  
2 files changed, 2 insertions(+)  
create mode 100644 Red.txt  
create mode 100644 Yellow.txt
```

Змінення файла, який був доданий в 12-тому пункті в основній бренчі

```
Scorpion@Scorpion:~/Documents/GitHub/lab2_QA (experiment)
$ git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.

Scorpion@Scorpion:~/Documents/GitHub/lab2_QA (master)
$ git add White.txt

Scorpion@Scorpion:~/Documents/GitHub/lab2_QA (master)
$ git commit "Add White master"
error: pathspec 'Add White master' did not match any file(s) known to git.

Scorpion@Scorpion:~/Documents/GitHub/lab2_QA (master)
$ git commit -m "Add White master"
[master 59f5e38] Add White master
1 file changed, 1 insertion(+)
create mode 100644 White.txt

Scorpion@Scorpion:~/Documents/GitHub/lab2_QA (master)
$ |
```

Переключення на іншу гілку, зміна того самого файла

```
Scorpion@Scorpion- [~] ~/Documents/GitHub/lab2_QA (master)
$ git checkout experiment
Switched to branch 'experiment'
Your branch is ahead of 'origin/experiment' by 2 commits.
  (use "git push" to publish your local commits)

Scorpion@Scorpion- [~] ~/Documents/GitHub/lab2_QA (experiment)
$ git add White.txt

Scorpion@Scorpion- [~] ~/Documents/GitHub/lab2_QA (experiment)
$ git commit -m "Change White"
[experiment 20df2a4] Change White
 1 file changed, 1 insertion(+), 1 deletion(-)

Scorpion@Scorpion- [~] ~/Documents/GitHub/lab2_QA (experiment)
$
```


Об'єднання створеної гілки з основною. Вирішення конфлікту вручну (1)

```
Scorpion@Scorpion:~/Documents/GitHub/lab2_QA (experiment)
$ git merge master
Auto-merging White.txt
CONFLICT (add/add): Merge conflict in White.txt
Automatic merge failed; fix conflicts and then commit the result.

Scorpion@Scorpion:~/Documents/GitHub/lab2_QA (experiment|MERGING)
$ git status
On branch experiment
Your branch is ahead of 'origin/experiment' by 3 commits.
  (use "git push" to publish your local commits)
You have unmerged paths.
  (fix conflicts and run "git commit")

Unmerged paths:
  (use "git add <file>..." to mark resolution)

        both added:      White.txt

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

        UsersScorpionDocumentsGitHubcopy_repo/

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

Scorpion@Scorpion:~/Documents/GitHub/lab2_QA (experiment|MERGING)
$ |
```

Об'єднання створеної гілки з основною. Вирішення конфлікту вручну (2)

```
White — Блокнот
Файл  Правка  Формат  Вид  Справка
|<<<<<< HEAD
This is my favourite color. This color is nice.
=====
This is white color - color of nothing
>>>>>> master
```

```
ос0t32i1.y5w — Блокнот
Файл  Правка  Формат  Вид  Справка
Merge branch 'master' into experiment

# Conflicts:
#   white.txt
#
# It looks like you may be committing a merge.
# If this is not correct, please remove the file
#   .git/MERGE_HEAD
# and try again.

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch experiment
# Your branch is ahead of 'origin/experiment' by 3 commits.
#   (use "git push" to publish your local commits)
#
# All conflicts fixed but you are still merging.
#
# Changes to be committed:
#   modified:   white.txt
#
# Untracked files:
#   UsersScorpionDocumentsGithubcopy_repo/
#
```

Об'єднання створеної гілки з основною. Вирішення конфлікту вручну (3)

```
Scorpion@Scorpion-~$ git add White.txt
Scorpion@Scorpion-~$ git status
On branch experiment
Your branch is ahead of 'origin/experiment' by 3 commits.
(use "git push" to publish your local commits)
All conflicts fixed but you are still merging.
(use "git commit" to conclude merge)

Changes to be committed:
  modified:   White.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  UsersScorpionDocumentsGitHubcopy_repo/

Scorpion@Scorpion-~$ git commit
[experiment 1a7b59a] Merge branch 'master' into experiment
```

Об'єднання створеної гілки з основною. Вирішення конфлікту вручну (4)

```
Scorpion@Scorpion: ~/Documents/GitHub/lab2_QA (experiment)
$ git push -u origin experiment
git: 'credential-Advanced' is not a git command. See 'git --help'.
Counting objects: 11, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (9/9), done.
Writing objects: 100% (11/11), 1.12 KiB | 0 bytes/s, done.
Total 11 (delta 4), reused 0 (delta 0)
remote: Resolving deltas: 100% (4/4), done.
To https://github.com/DmytroHavryliak96/Lab2_SoftQuality.git
  2464950..1a7b59a  experiment -> experiment
Branch experiment set up to track remote branch experiment from origin.

Scorpion@Scorpion: ~/Documents/GitHub/lab2_QA (experiment)
$ git push -u origin master
git: 'credential-Advanced' is not a git command. See 'git --help'.
Total 0 (delta 0), reused 0 (delta 0)
To https://github.com/DmytroHavryliak96/Lab2_SoftQuality.git
  103a96f..59f5e38  master -> master
Branch master set up to track remote branch master from origin.

Scorpion@Scorpion: ~/Documents/GitHub/lab2_QA (experiment)
$ |
```

Висновки

- * На цій лабораторній роботі я здобув необхідні знання та навички для роботи з системою керування версіями Git.