Лабораторная работа № 4

Цель работы

- Получение навыков правильной работы с репозиториями git.

Ход работы

Установка giflow

```
root@nukhova:~/arch-pc# mkdir git-extended
root@nukhova:~/arch-pc# cd git-extended
root@nukhova:~/arch-pc/git-extended# git init
Initialized empty Git repository in /root/arch-pc/git-extended/.git/
root@nukhova:~/arch-pc/git-extended# git status
On branch main

No commits yet

nothing to commit (create/copy files and use "git add" to track)
root@nukhova:~/arch-pc/git-extended# echo "git extended" > README.md
root@nukhova:~/arch-pc/git-extended# git add README.md
root@nukhova:~/arch-pc/git-extended# git commit -m "first comm"
[main (root-commit) f65343d] first comm
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
root@nukhova:~/arch-pc/git-extended# git push -u origin main
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
root@nukhova:~/arch-pc/git-extended# git push -u origin master
```
Создание git extended

```
root@nukhova:~/arch-pc/git-extended# git branch -a
* main
root@nukhova:~/arch-pc/git-extended# git remote remove origin
error: No such remote: 'origin'
root@nukhova:~/arch-pc/git-extended# git remote add origin https://github.com/winterwntend/
git-extended.git
root@nukhova:~/arch-pc/git-extended# git add .
root@nukhova:~/arch-pc/git-extended# git commit -m "com inital"
On branch main
nothing to commit, working tree clean
root@nukhova:~/arch-pc/git-extended# git push -u origin main
Username for 'https://github.com': winterwntend
Password for 'https://winterwntend@github.com':
remote: {"auth_status":"auth_error","body":"Invalid username or token. Password authenticat
ion is not supported for Git operations."}
fatal: Authentication failed for 'https://github.com/winterwntend/git-extended.git/'
root@nukhova:~/arch-pc/git-extended# git push -u origin main
Username for 'https://github.com': winterwntend
Password for 'https://winterwntend@github.com':
remote: {"auth_status":"auth_error","body":"Invalid username or token. Password authenticat
ion is not supported for Git operations."}
fatal: Authentication failed for 'https://github.com/winterwntend/git-extended.git/'
root@nukhova:~/arch-pc/git-extended# git push -u origin main
Username for 'https://github.com': winterwntend
Password for 'https://winterwntend@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 229 bytes | 229.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/winterwntend/git-extended.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
root@nukhova:~/arch-pc/git-extended#
```

```
Hooks and filters directory? [/root/arch-pc/git-extended/.git/hooks]
root@nukhova:~/arch-pc/git-extended# git flow feature start feature_branch
Switched to a new branch 'feature/feature_branch'

Summary of actions:
- A new branch 'feature/feature_branch' was created, based on 'develop'
- You are now on branch 'feature/feature_branch'

Now, start committing on your feature. When done, use:

    git flow feature finish feature_branch

root@nukhova:~/arch-pc/git-extended# echo "// New feature functionality" > feature.js
root@nukhova:~/arch-pc/git-extended# git add feature.js
root@nukhova:~/arch-pc/git-extended# git commit -m "feat: add new feature functionality"
[feature/feature_branch b66e278] feat: add new feature functionality
 1 file changed, 1 insertion(+)
 create mode 100644 feature.js
root@nukhova:~/arch-pc/git-extended# git flow feature finish feature_branch
Switched to branch 'develop'
Updating f65343d..b66e278
Fast-forward
 feature.js | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 feature.js
Deleted branch feature/feature_branch (was b66e278).

Summary of actions:
- The feature branch 'feature/feature_branch' was merged into 'develop'
- Feature branch 'feature/feature_branch' has been locally deleted
- You are now on branch 'develop'
```

Разработка новой функциональности

```
Merge made by the 'ort' strategy.
 CHANGELOG.md |  3 +++
 feature.js   |  1 +
 package.json | 14 ++++++++++++++
 3 files changed, 18 insertions(+)
 create mode 100644 CHANGELOG.md
 create mode 100644 feature.js
 create mode 100644 package.json
Already on 'main'
Your branch is ahead of 'origin/main' by 3 commits.
  (use "git push" to publish your local commits)
fatal: no tag message?
Fatal: Tagging failed. Please run finish again to retry.
root@nukhova:~/arch-pc/git-extended# git push --all
Username for 'https://github.com': winterwntend
Password for 'https://winterwntend@github.com':
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (8/8), 1.08 KiB | 1.08 MiB/s, done.
Total 8 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/winterwntend/git-extended.git
   f65343d..882d683  main -> main
 * [new branch]      develop -> develop
 * [new branch]      release/1.2.3 -> release/1.2.3
root@nukhova:~/arch-pc/git-extended# git push --tags
Username for 'https://github.com': winterwntend
Password for 'https://winterwntend@github.com':
Everything up-to-date
```

Вывод: получены навыки работы с репозиторием