

Нижегородский государственный технический университет им.

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Кафедра «Информатики и системы управления»

Дисциплина «Информатика»

Лабораторная работа №3

Тема: «Знакомство с системой контроля версий GIT»

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Нижний Новгород 2024

## Задание

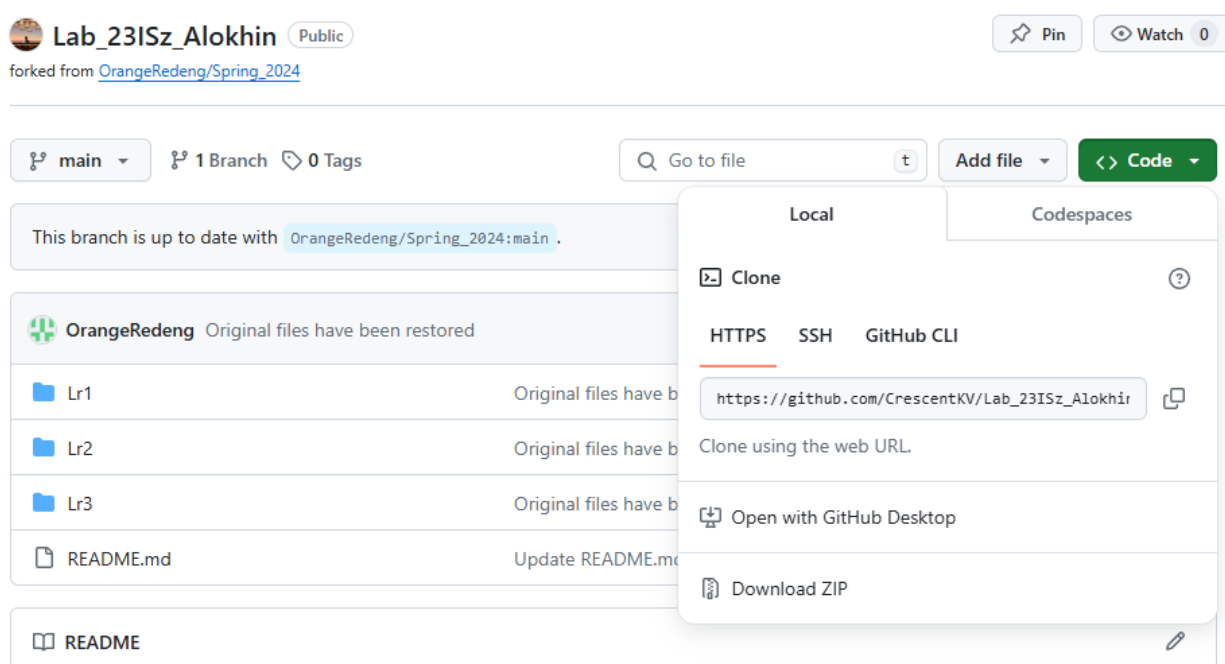
Приобрести навыки работы с системой контроля версий и Загрузить отчёты и материалы по предыдущим лабораторным работам в мой репозиторий на GitHub.

## Цель

Освоить систему контроля версий GIT.

## Ход

### Создание ответвления через fork



### Клонирование репозитория на свою машину

```
user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы
$ git clone https://github.com/CrescentKV/Lab_23ISz_Alokhin.git
Cloning into 'Lab_23ISz_Alokhir'...
remote: Enumerating objects: 109, done.
remote: Counting objects: 100% (23/23), done.
remote: Compressing objects: 100% (19/19), done.
remote: Total 109 (delta 7), reused 4 (delta 4), pack-reused 86
Receiving objects: 100% (109/109), 36.46 MiB | 3.63 MiB/s, done.
Resolving deltas: 100% (15/15), done.

user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы
$ .....
```

### Переход к работе с репозиториен

```

user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы
$ git clone https://github.com/CrescentKV/Lab_23ISz_Alokhin.git
Cloning into 'Lab_23ISz_Alokhin'...
remote: Enumerating objects: 109, done.
remote: Counting objects: 100% (23/23), done.
remote: Compressing objects: 100% (19/19), done.
remote: Total 109 (delta 7), reused 4 (delta 4), pack-reused 86
Receiving objects: 100% (109/109), 36.46 MiB | 3.63 MiB/s, done.
Resolving deltas: 100% (15/15), done.

user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы
$ cd Lab_23ISz_Alokhin

```

## Добавление файлов в репозиторий

```

user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы/Lab_23ISz_Alokhin (main)
$ git add Lr1

user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы/Lab_23ISz_Alokhin (main)
$ git add Lr2

user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы/Lab_23ISz_Alokhin (main)
$ git add Lr3

user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы/Lab_23ISz_Alokhin (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   "Lr1/23ISz_Alokhin/\320\233\320\260\320\261\342\204\2261_\320\220\320\273\320\265\321\205\320\270\320\275 \320\234.\320\230._23\320\230\320\241\320\267.pdf"
    deleted:    Lr1/Bykova_A_A_23VMz/Test.txt
    deleted:    "Lr1/Bykova_A_A_23VMz/\320\230\320\270\320\232\320\242_23\320\222\320\274\320\267_\320\221\321\213\320\272\320\276\320\262\320\260_\320\220\320\275\320\260\321\201\321\202\320\260\321\201\320\270\321\217_\320\220\320\273\320\265\320\272\321\201\320\265\320\265\320\262\320\275\320\260_\320\233\320\240_1.docx"
    deleted:    "Lr1/\320\221\320\273\320\276\320\272-\320\241\321\205\320\265\320\274\321\213.pptx"
    deleted:    "Lr1/\320\230\320\270\320\232\320\242_\320\233\320\260\320\2611 2024.doc"
    deleted:    "Lr1/\320\237\321\200\320\270\320\274\320\265\321\200 \320\276\321\202\321\207\321\221\321\202\320\260.docx"
    new file:   Lr2/23ISz_Alokhin/Genshin Impact.html
    new file:   "Lr2/23ISz_Alokhin/\320\233\320\260\320\261\342\204\2262_\320\236\321\202\321\207\321\221\321\202_\320\220\320\273\320\265\321\205\320\270\320\275 \320\234.\320\230._23\320\230\320\241\320\267.pdf"

```

## Коммит и сохранение изменений в файл

```
user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы/Lab_23ISz_Alokhin (main)
$ git commit -m "more text added to first.txt"
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы/Lab_23ISz_Alokhin (main)
$ git commit -a -m "New text in test.txt"
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы/Lab_23ISz_Alokhin (main)
$ git push
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 20 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (9/9), 588.15 KiB | 42.01 MiB/s, done.
Total 9 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/CrescentKV/Lab_23ISz_Alokhin.git
   ca926cd..dff2727  main -> main

user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы/Lab_23ISz_Alokhin (main)
$ git pull
Already up to date.
```



## Разрешение конфликтов с добавлением нового файла


```
user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы/Lab_23ISz_Alokhin (main)
$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 1 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 912 bytes | 76.00 KiB/s, done.
From https://github.com/CrescentKV/Lab_23ISz_Alokhin
   dff2727..a65ab9b  main      -> origin/main
Updating dff2727..a65ab9b
Fast-forward
 second.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 second.txt


user@WIN-FJFHR0363ML MINGW64 ~/Desktop/лабы/Lab_23ISz_Alokhin (main)
$ git push
Everything up-to-date
```


## Создание пул реквестов


## Тайтл #119

 Open CrescentKV wants to merge 2 commits into [OrangeRedeng:main](#) from [CrescentKV:main](#) 

 Conversation **0**

 Commits **2**

 Checks **0**

 Files changed **68**



CrescentKV commented 2 minutes ago 

описание



 CrescentKV added 2 commits [1 hour ago](#)

  Test commit

  second.txt

dff2727

Verified

a65ab9b

Add more commits by pushing to the [main](#) branch on [CrescentKV/Lab\\_23ISz\\_Alokhin](#).

## Итог

Я загрузил отчёты и материалы по предыдущим лабораторным работам в мой репозиторий на GitHub и приобрел некоторые навыки работы с системой контроля версий.