

Министерство науки и высшего образования Российской Федерации
Пензенский государственный университет
Кафедра "Вычислительная техника"

ОТЧЁТ
по лабораторной работе №10
по курсу «Информационные технологии в профессиональной деятельности»
на тему «GitHub. Совместная работа»

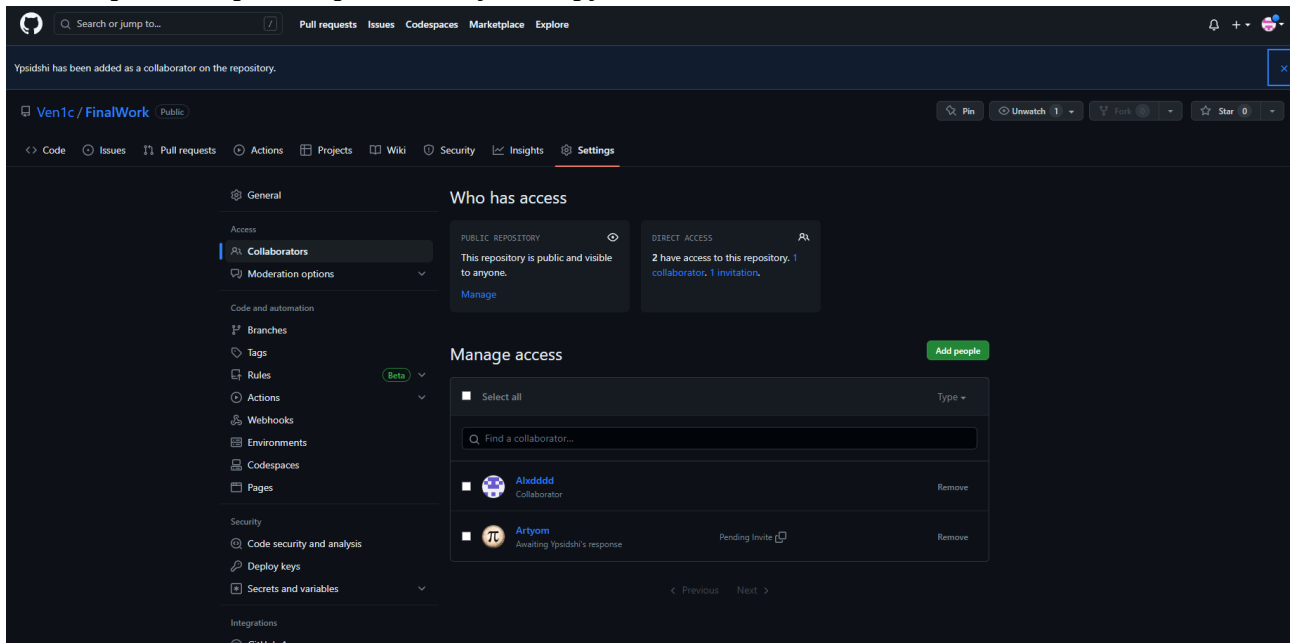
Выполнил студ. Группы 22ВВс1:
Братчиков А.А.
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Цель работы: научиться работать с веб-сервисом для хостинга проектов и их совместной разработки GitHub. Создать свой публичный репозиторий.

Практическая часть.

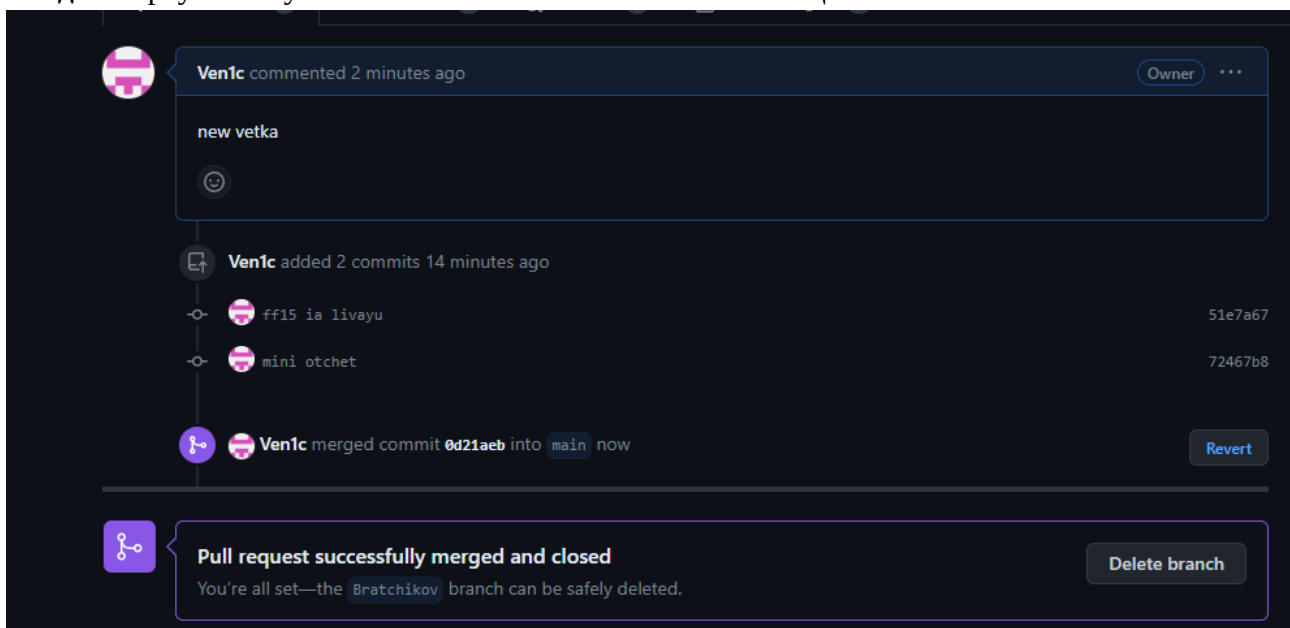
Создал репозиторий и пригласил туда согруппников.



Скопировал репозиторий в локальный.

```
Александр@DESKTOP-993AVM0 MINGW64 /e/GitShtuki/FinalWork ((36b8277...))
$ git clone https://github.com/Ven1c/FinalWork.git
Cloning into 'FinalWork'...
remote: Enumerating objects: 61, done.
remote: Counting objects: 100% (61/61), done.
remote: Compressing objects: 100% (54/54), done.
remote: Total 61 (delta 22), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (61/61), 520.88 KiB | 2.37 MiB/s, done.
Resolving deltas: 100% (22/22), done.
```

Создал первую ветку и выполнил слияние этой ветки с общей веткой.



Создал ветку Bratchikov в gitbash

```
Александр@DESKTOP-993AVM0 MINGW64 /e/git prsh/FinalWork (main)
$ git checkout Bratchikov
Switched to branch 'Bratchikov'

Александр@DESKTOP-993AVM0 MINGW64 /e/git prsh/FinalWork (Bratchikov)
$ git status
On branch Bratchikov
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:   "Lab 4/lab 4\320\232\320\276\320\264 1/lab 4/lab 4.cpp"

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

Александр@DESKTOP-993AVM0 MINGW64 /e/git prsh/FinalWork (Bratchikov)
$ git add --all

Александр@DESKTOP-993AVM0 MINGW64 /e/git prsh/FinalWork (Bratchikov)
$ git status
On branch Bratchikov
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   "Lab 4/lab 4\320\232\320\276\320\264 1/lab 4/lab 4.cpp"

Александр@DESKTOP-993AVM0 MINGW64 /e/git prsh/FinalWork (Bratchikov)
$ git commit -m"ff15 ia livayu"
[Bratchikov 51e7a67] ff15 ia livayu
1 file changed, 2 insertions(+), 2 deletions(-)
```

Проверка удалённого репозитория на его наличие. Создание коммита изменений и сохранение изменений на удалённом репозитории.

```
Александр@DESKTOP-993AVM0 MINGW64 /e/git prsh/FinalWork (main)
$ git remote -v
origin https://github.com/Ven1c/FinalWork.git (fetch)
origin https://github.com/Ven1c/FinalWork.git (push)

Александр@DESKTOP-993AVM0 MINGW64 /e/git prsh/FinalWork (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:   kish.docx

Александр@DESKTOP-993AVM0 MINGW64 /e/git prsh/FinalWork (main)
$ git commit -m"korol and shut"
[main d63c608] korol and shut
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 kish.docx

Александр@DESKTOP-993AVM0 MINGW64 /e/git prsh/FinalWork (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 311 bytes | 311.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Ven1c/FinalWork.git
 36b8277..d63c608 main -> main

Александр@DESKTOP-993AVM0 MINGW64 /e/git prsh/FinalWork (main)
$ |
```

Часть студента №2:

```
super@Ypsidshi MINGW64 /c/LR10
$ git init
Initialized empty Git repository in C:/LR10/.git/

super@Ypsidshi MINGW64 /c/LR10 (master)
$ git clone https://github.com/Ven1c/FinalWork.git
Cloning into 'FinalWork'...
remote: Enumerating objects: 130, done.
remote: Counting objects: 100% (63/63), done.
remote: Compressing objects: 100% (42/42), done.
remote: Total 130 (delta 14), reused 60 (delta 13), pack-reused 67
Receiving objects: 100% (130/130), 2.43 MiB | 1.27 MiB/s, done.
Resolving deltas: 100% (33/33), done.

super@Ypsidshi MINGW64 /c/LR10 (master)
$ cd://LR10/Finalwork
bash: cd://LR10/Finalwork: No such file or directory

super@Ypsidshi MINGW64 /c/LR10 (master)
$ cd://LR10/FinalWork
bash: cd://LR10/FinalWork: No such file or directory

super@Ypsidshi MINGW64 /c/LR10 (master)
$ cd c://LR10//FinalWork

super@Ypsidshi MINGW64 /c/LR10/FinalWork (main)
$ git branch Piliugin

super@Ypsidshi MINGW64 /c/LR10/FinalWork (main)
$ git checkout Piliugin
Switched to branch 'Piliugin'
```

Создали файл 2.docx, закоммитили его.

```
super@Ypsidshi MINGW64 /c/LR10/FinalWork (Piliugin)
$ git commit -m "sum"
[Piliugin 48cb3b6] sum
10 files changed, 2 insertions(+), 2 deletions(-)
create mode 100644 "Lab 4/lab 4 \320\272\320\276\320\264 2/.vs/lab 4 \320\272\320\276\320\264 2/FileContentIndex/a2c51d8d-cbaa-4a0b-95f8-af0a32ede947.vsidx"
create mode 100644 "Lab 4/lab 4 \320\272\320\276\320\264 2/.vs/lab 4 \320\272\320\276\320\264 2/FileContentIndex/read.lock"
create mode 100644 "Lab 4/lab 4 \320\272\320\276\320\264 2/.vs/lab 4 \320\272\320\276\320\264 2/v17/.suo"
create mode 100644 "Lab 4/lab 4 \320\272\320\276\320\264 2/.vs/lab 4 \320\272\320\276\320\264 2/v17/Browse.VC.db"
delete mode 100644 "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/FileContentIndex/10c2eb39-6ac4-4eef-8634-4ee53588e5da.vsidx"
rename "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/FileContentIndex/3ad54527-2b13-4c8e-ab10-0477efe53291.vsidx" => "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/FileContentIndex/fbec9164-9992-45d3-8e47-e6354ba50339.vsidx" (55%)
create mode 100644 "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/v17/ipch/AutoPCH/97329fefe24ad6d3/LAB 4.ipch"

super@Ypsidshi MINGW64 /c/LR10/FinalWork (Piliugin)
$ git push origin Piliugin
Enumerating objects: 37, done.
Counting objects: 100% (37/37), done.
Delta compression using up to 12 threads
Compressing objects: 100% (21/21), done.
Writing objects: 100% (25/25), 1.14 MiB | 313.00 KiB/s, done.
Total 25 (delta 7), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (7/7), completed with 5 local objects.
To https://github.com/Ven1c/FinalWork.git
20a7d94..48cb3b6 Piliugin -> Piliugin

super@Ypsidshi MINGW64 /c/LR10/FinalWork (Piliugin)
$ git add --all

super@Ypsidshi MINGW64 /c/LR10/FinalWork (Piliugin)
$ git commit -m "edit"
[Piliugin 4b9a206] edit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 2.docx.odt

super@Ypsidshi MINGW64 /c/LR10/FinalWork (Piliugin)
$ git push
fatal: The current branch Piliugin has no upstream branch.
To push the current branch and set the remote as upstream, use
```

Выгрузил изменения в удалённый репозиторий:

```
super@Ypsidshi MINGW64 /c/LR10/FinalWork (Piliugin)
$ git push origin Piliugin
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 9.05 KiB | 4.53 MiB/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 https://github.com/Ven1c/FinalWork.git
48cb3b6..4b9a206 Piliugin -> Piliugin
```

Тоже самое сделал студент №3:

```
Ilya@DESKTOP-A0I5NDV MINGW64 ~/Desktop/papka/3_A/LR10 (master)
$ git clone https://github.com/Ven1c/FinalWork.git
Cloning into 'FinalWork'...
remote: Enumerating objects: 74, done.
remote: Counting objects: 100% (74/74), done.
remote: Compressing objects: 100% (64/64), done.
remote: Total 74 (delta 25), reused 14 (delta 2), pack-reused 0
Receiving objects: 100% (74/74), 566.72 KiB | 2.45 MiB/s, done.
Resolving deltas: 100% (25/25), done.

Ilya@DESKTOP-A0I5NDV MINGW64 ~/Desktop/papka/3_A/LR10 (master)
$ cd \FinalWork

Ilya@DESKTOP-A0I5NDV MINGW64 ~/Desktop/papka/3_A/LR10/FinalWork (main)
$ git branch Agapov

Ilya@DESKTOP-A0I5NDV MINGW64 ~/Desktop/papka/3_A/LR10/FinalWork (main)
$ git checkout Agapov
Switched to branch 'Agapov'

Ilya@DESKTOP-A0I5NDV MINGW64 ~/Desktop/papka/3_A/LR10/FinalWork (Agapov)
$ git add --all
error: open("Lab 4/lab 4Код 1/.vs/lab 4/v17/Browse.VC.opendb"): Permission denied
error: unable to index file 'Lab 4/lab 4Код 1/.vs/lab 4/v17/Browse.VC.opendb'
fatal: adding files failed

Ilya@DESKTOP-A0I5NDV MINGW64 ~/Desktop/papka/3_A/LR10/FinalWork (Agapov)
$ git add --all

Ilya@DESKTOP-A0I5NDV MINGW64 ~/Desktop/papka/3_A/LR10/FinalWork (Agapov)
$ git status
On branch Agapov
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   3.docx
    new file:   "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/FileContentIndex/10c2eb39-6ac4
4eef-8634-4ee53588e5da.vsidx"
    new file:   "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/FileContentIndex/4c56a129-883a
452b-94af-13e03e398ad6.vsidx"
    new file:   "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/FileContentIndex/read.lock"
    new file:   "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/v17/.suo"
    new file:   "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/v17/Browse.VC.db"
    new file:   "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/v17/ipch/AutoPCH/9476d3494993f
79/VCTMP14196_876042.LAB 4.00000000.ipch"
    new file:   "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/v17/ipch/AutoPCH/f0d2ff4978ace
e3/LAB 4.ipch"
    modified:   "Lab 4/lab 4\320\232\320\276\320\264 1/lab 4/lab 4.cpp"
```

```

Ilya@DESKTOP-A0ISNDV MINGW64 ~/Desktop/papka/3_A/LR10/FinalWork (Agapov)
$ git commit -m "proverka"
[Agapov a37539f] proverka
25 files changed, 11 insertions(+), 5 deletions(-)
create mode 100644 3.docx
create mode 100644 "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/File
4eef-8634-4ee53588e5da.vsidx"
create mode 100644 "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/File
452b-94af-13e03e398ad6.vsidx"
create mode 100644 "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/File
create mode 100644 "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/v17/
create mode 100644 "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/v17/
create mode 100644 "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/v17/
79/VCTMP14196_876042.LAB 4.00000000.ipch"
create mode 100644 "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/v17/
e3/LAB 4.ipch"
create mode 100644 ~$3.docx

Ilya@DESKTOP-A0ISNDV MINGW64 ~/Desktop/papka/3_A/LR10/FinalWork (Agapov)
$ git add --all

Ilya@DESKTOP-A0ISNDV MINGW64 ~/Desktop/papka/3_A/LR10/FinalWork (Agapov)
$ git add --all

Ilya@DESKTOP-A0ISNDV MINGW64 ~/Desktop/papka/3_A/LR10/FinalWork (Agapov)
$ git commit -m "comentariy and otchet"
[Agapov e483d9e] comentariy and otchet
6 files changed, 1 insertion(+)
rename "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/FileContentIndex
e03e398ad6.vsidx" => "Lab 4/lab 4\320\232\320\276\320\264 1/.vs/lab 4/Fil
-4c8e-ab10-0477efe53291.vsidx" (87%)
delete mode 100644 ~$3.docx

```

```

Ilya@DESKTOP-A0ISNDV MINGW64 ~/Desktop/papka/3_A/LR10/FinalWork (Agapov)
$ git push origin Agapov
Enumerating objects: 79, done.
Counting objects: 100% (79/79), done.
Delta compression using up to 8 threads
Compressing objects: 100% (49/49), done.
Writing objects: 100% (55/55), 1.67 MiB | 1.80 MiB/s, done.
Total 55 (delta 19), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (19/19), completed with 12 local objects.
remote:
remote: Create a pull request for 'Agapov' on GitHub by visiting:
remote:   https://github.com/Ven1c/FinalWork/pull/new/Agapov
remote:
To https://github.com/Ven1c/FinalWork.git
 * [new branch]      Agapov -> Agapov

```

Вывод: научились использовать операции слияния и ветвления, работать с ветками в Git.