



МИНОБРНАУКИ РОССИИ
федеральное государственное бюджетное образовательное учреждение
высшего образования
«Московский государственный технологический университет
«СТАНКИН»
(ФГБОУ ВО «МГТУ «СТАНКИН»)

Институт цифровых
интеллектуальных систем

Кафедра
компьютерных систем управления

Дисциплина «Основы системного программного обеспечения»

Отчет по лабораторной работе №_1_

Работа с системами контроля версий на примере Git Hub

Выполнил
студент гр. АДБ-20-08:

Талтыкин А.В.

(дата)
(подпись)

Проверил
к.т.н., доцент

Ковалев И.А.

(дата)
(подпись)

Москва 2023 г.

1. Цель

Ознакомиться и научиться работать с системами контроля версий на примере GitHub.

2. Задачи работы

Установить git на свой ПК

Создать локальные репозиторий

Фиксация изменений в области заготовленных файлов

Отправить коммит на сервер

Переслать локальный коммит на сервер

Создание новой ветки

Слияние веток

Просмотр изменений и разрешение конфликтов

Удаление веток

Возврат к предыдущему состоянию с загрузкой хэша

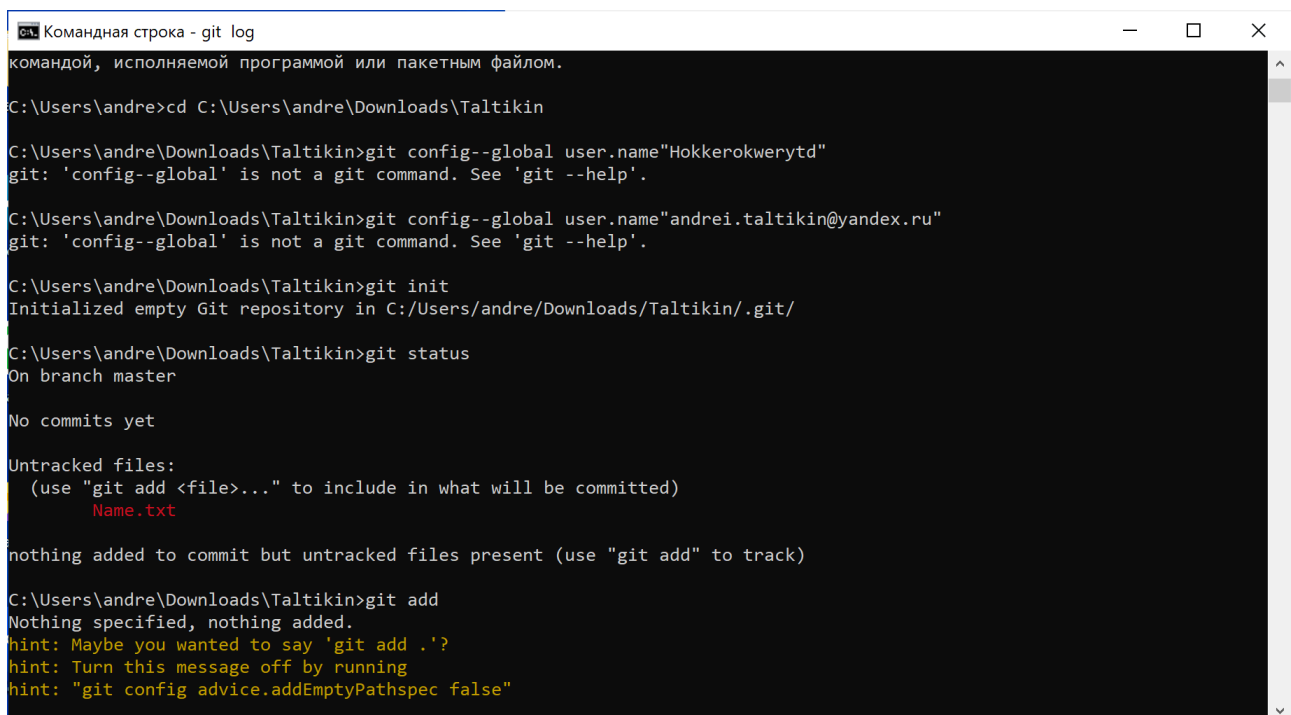
Исправление коммита

Отправка только нужных файлов на сервер

Совместная работа с git

3. Индивидуальная часть

Заходим в папку, где хранится текстовый документ с именем



```
Командная строка - git log
командой, исполняемой программой или пакетным файлом.

C:\Users\andre>cd C:\Users\andre\Downloads\Taltikin

C:\Users\andre\Downloads\Taltikin>git config--global user.name"Hokkerokwerytd"
git: 'config--global' is not a git command. See 'git --help'.

C:\Users\andre\Downloads\Taltikin>git config--global user.name"andrei.taltikin@yandex.ru"
git: 'config--global' is not a git command. See 'git --help'.

C:\Users\andre\Downloads\Taltikin>git init
Initialized empty Git repository in C:/Users/andre/Downloads/Taltikin/.git/

C:\Users\andre\Downloads\Taltikin>git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\andre\Downloads\Taltikin>git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'
hint: Turn this message off by running
hint: "git config advice.addEmptyPathsSpec false"
```

Сохраняем его в гите, после чего создаем первый коммит

```
Командная строка - git log
C:\Users\andre\Downloads\Taltikin>git add .

C:\Users\andre\Downloads\Taltikin>git status
On branch master

No commits yet

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

C:\Users\andre\Downloads\Taltikin>git commit -m "first commit"
[master (root-commit) 69d9f80] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 Name.txt

C:\Users\andre\Downloads\Taltikin>git status
On branch master
nothing to commit, working tree clean

C:\Users\andre\Downloads\Taltikin>git remote add origin https://github.com/Hokkerokwerytd/lr

C:\Users\andre\Downloads\Taltikin>git remote -v
origin  https://github.com/Hokkerokwerytd/lr (fetch)
origin  https://github.com/Hokkerokwerytd/lr (push)

C:\Users\andre\Downloads\Taltikin>git push origin master
info: please complete authentication in your browser...
Enumerating objects: 3, done.
```

Заходим в гит хаб и загружаем туда текстовый документ в ветку мастер

```
Командная строка - git log
C:\Users\andre\Downloads\Taltikin>git push origin master
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 226 bytes | 226.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Hokkerokwerytd/lr
 * [new branch]      master -> master

C:\Users\andre\Downloads\Taltikin>git push origin master
Everything up-to-date

C:\Users\andre\Downloads\Taltikin>git log
commit 69d9f8084f1d64391b5c23acc6acb2239c542c20 (HEAD -> master, origin/master)
Author: Hokkerokwerytd <andrei.taltikin@yandex.ru>
Date:   Wed May 10 22:54:11 2023 +0300

    first commit

C:\Users\andre\Downloads\Taltikin>git branch second

C:\Users\andre\Downloads\Taltikin>git checout second
git: 'checout' is not a git command. See 'git --help'.

The most similar command is
    checkout

C:\Users\andre\Downloads\Taltikin>git checkout second
Switched to branch 'second'
```

Создаем ветку second, переключаемся на нее и загружаем туда текстовый документ с фамилией и создаем второй коммит

```
Командная строка - git log
C:\Users\andre\Downloads\Taltikin>git status
On branch second
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Surname.txt

nothing added to commit but untracked files present (use "git add" to track)
C:\Users\andre\Downloads\Taltikin>git add Surname.txt
C:\Users\andre\Downloads\Taltikin>git commit -m "second commit"
[second 009e627] second commit
 1 file changed, 1 insertion(+)
 create mode 100644 Surname.txt
C:\Users\andre\Downloads\Taltikin>git status
On branch second
nothing to commit, working tree clean
C:\Users\andre\Downloads\Taltikin>git remote add origin https://github.com/Hokkerokwerytd/lr
error: remote origin already exists.
C:\Users\andre\Downloads\Taltikin>git remote -v
origin  https://github.com/Hokkerokwerytd/lr (fetch)
origin  https://github.com/Hokkerokwerytd/lr (push)
C:\Users\andre\Downloads\Taltikin>git git pull origin second
git: 'git' is not a git command. See 'git --help'.

The most similar command is
```

```
Командная строка - git log
init
C:\Users\andre\Downloads\Taltikin>git git push origin second
git: 'git' is not a git command. See 'git --help'.

The most similar command is
init
C:\Users\andre\Downloads\Taltikin>git git push origin second
git: 'git' is not a git command. See 'git --help'.

The most similar command is
init
C:\Users\andre\Downloads\Taltikin>git push origin second
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 482 bytes | 482.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'second' on GitHub by visiting:
remote:   https://github.com/Hokkerokwerytd/lr/pull/new/second
remote:
To https://github.com/Hokkerokwerytd/lr
 * [new branch]      second -> second
C:\Users\andre\Downloads\Taltikin>git branch master
fatal: a branch named 'master' already exists
```

Объединяем ветки и переключаемся обратно на ветку мастер, после чего удаляем ветку second

```
Командная строка - git log

C:\Users\andre\Downloads\Taltikin>git status
On branch second
nothing to commit, working tree clean

C:\Users\andre\Downloads\Taltikin>git checkout master
Switched to branch 'master'

C:\Users\andre\Downloads\Taltikin>git status
On branch master
nothing to commit, working tree clean

C:\Users\andre\Downloads\Taltikin>git merge second
Updating 69d9f80..009e627
Fast-forward
 Surname.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 Surname.txt

C:\Users\andre\Downloads\Taltikin>git status
On branch master
nothing to commit, working tree clean

C:\Users\andre\Downloads\Taltikin>git merge second
Already up to date.

C:\Users\andre\Downloads\Taltikin>git branch -d second
Deleted branch second (was 009e627).

C:\Users\andre\Downloads\Taltikin>git log
```

Создаем ветку newdev и добавляем текстовый документ с отчеством, и проделываем те же действия, что и с веткой second

```
Командная строка - git log

Deleted branch second (was 009e627).

C:\Users\andre\Downloads\Taltikin>git log
commit 009e62793dfd8693c4638387eaf79b2dc23f3ac9 (HEAD -> master, origin/second)
Author: Hokkerokwerytd <andrei.taltikin@yandex.ru>
Date: Wed May 10 23:07:32 2023 +0300

    second commit

commit 69d9f8084f1d64391b5c23acc6acb2239c542c20 (origin/master)
Author: Hokkerokwerytd <andrei.taltikin@yandex.ru>
Date: Wed May 10 22:54:11 2023 +0300

    first commit

C:\Users\andre\Downloads\Taltikin>git push origin --delete second
To https://github.com/Hokkerokwerytd/lr
- [deleted]          second

C:\Users\andre\Downloads\Taltikin>git add surname.txt

C:\Users\andre\Downloads\Taltikin>git add Otchestvo.txt

C:\Users\andre\Downloads\Taltikin>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Otchestvo.txt
```

```
Командная строка - git log
C:\Users\andre\Downloads\Taltikin>git commit -m "commit"

C:\Users\andre\Downloads\Taltikin>git commit -m "third commit"
[master 8b8c712] third commit
1 file changed, 1 insertion(+)
create mode 100644 Otchestvo.txt

C:\Users\andre\Downloads\Taltikin>git status
On branch master
nothing to commit, working tree clean

C:\Users\andre\Downloads\Taltikin>git push origin master
To https://github.com/Hokkerokwerytd/lr
 ! [rejected]        master -> master (fetch first)
error: failed to push some refs to 'https://github.com/Hokkerokwerytd/lr'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

C:\Users\andre\Downloads\Taltikin>git push origin master
To https://github.com/Hokkerokwerytd/lr
 ! [rejected]        master -> master (fetch first)
error: failed to push some refs to 'https://github.com/Hokkerokwerytd/lr'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

```
Командная строка - git log
C:\Users\andre\Downloads\Taltikin>git push origin master
To https://github.com/Hokkerokwerytd/lr
 ! [rejected]        master -> master (fetch first)
error: failed to push some refs to 'https://github.com/Hokkerokwerytd/lr'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

C:\Users\andre\Downloads\Taltikin>git pull origin master
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 663 bytes | 47.00 KiB/s, done.
From https://github.com/Hokkerokwerytd/lr
 * branch      master      -> FETCH_HEAD
   69d9f80..4171b06 master  -> origin/master
Merge made by the 'ort' strategy.
 README.md | 1 +
1 file changed, 1 insertion(+)
create mode 100644 README.md

C:\Users\andre\Downloads\Taltikin>git push origin master
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
```

```
Командная строка - git log

C:\Users\andre\Downloads\Taltikin>git push origin master
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (8/8), 854 bytes | 854.00 KiB/s, done.
Total 8 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/Hokkerokwerytd/lr
  4171b06..031beaf  master -> master

C:\Users\andre\Downloads\Taltikin>git log
commit 031beaf63e6f6c711c6a77b732342954f6b37177 (HEAD -> master, origin/master)
Merge: 8b8c712 4171b06
Author: Hokkerokwerytd <andrei.taltikin@yandex.ru>
Date: Wed May 10 23:35:41 2023 +0300

    Merge branch 'master' of https://github.com/Hokkerokwerytd/lr

commit 8b8c71217591e976b2af6edba076a990275201cf
Author: Hokkerokwerytd <andrei.taltikin@yandex.ru>
Date: Wed May 10 23:29:04 2023 +0300

    third commit

commit 009e62793dfd8693c4638387eaf79b2dc23f3ac9
Author: Hokkerokwerytd <andrei.taltikin@yandex.ru>
Date: Wed May 10 23:07:32 2023 +0300
```

```
Командная строка - git log

Author: Hokkerokwerytd <andrei.taltikin@yandex.ru>
Date: Wed May 10 23:35:41 2023 +0300

    Merge branch 'master' of https://github.com/Hokkerokwerytd/lr

commit 8b8c71217591e976b2af6edba076a990275201cf
Author: Hokkerokwerytd <andrei.taltikin@yandex.ru>
Date: Wed May 10 23:29:04 2023 +0300

    third commit

commit 009e62793dfd8693c4638387eaf79b2dc23f3ac9
Author: Hokkerokwerytd <andrei.taltikin@yandex.ru>
Date: Wed May 10 23:07:32 2023 +0300


    second commit

commit 4171b06a1d731b80b0f641425eaae6ed72dab7a3
Author: Hokkerokwerytd <131962129+Hokkerokwerytd@users.noreply.github.com>
Date: Wed May 10 23:01:56 2023 +0300

    Create README.md




commit 69d9f8084f1d64391b5c23acc6acb2239c542c20
Author: Hokkerokwerytd <andrei.taltikin@yandex.ru>
Date: Wed May 10 22:54:11 2023 +0300

:~
```



Найдите или перейдите к...

Тянуть запросПроблемыКодовые пространстваМагазинИсследовать



Хоккерокверитд / лрОбщедоступный


ОткрытьНе смотреть1Вилка0Звезд0

<> Код⌚ Проблем🔗 Запросов на извлечение🎮 Действия📁 Проекты📖 Вики🛡️ Безопасность📄 Озвращения⚙️ Настройки





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Перейдите к файлуДобавить файл<> Код

О нас



ХоккерокверитдОбъединить ветку 'master' с <https://github.com/Hokkerokwerytd/lr>031beafвчера🕒 5 коммитов

 Name.txt	первая фиксация	вчера
 Otchestvo.txt	третья фиксация	вчера
 README.md	Создать README.md	вчера
 Surname.txt	вторая фиксация	вчера

README.md

lr

Описание, веб-сайт или темы не предоставлены.

Прочитайте меня

0 звезд

1 просмотр

0 вилок

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