

**МИНОБРНАУКИ РОССИИ**

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**высшего образования**

**«Московский государственный технологический университет «СТАНКИН»**

**(ФГБОУ ВО «МГТУ «СТАНКИН»)**

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| |  |  | | --- | --- | | Институт цифровых интеллектуальных систем | Кафедра  компьютерных систем управления | |

Дисциплина «Основы системного программного обеспечения»

**Отчет по лабораторной работе №\_**1**\_**

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**Москва 2023 г.**

**Содержание**

1. **Цель................................................................................................................2**
2. **Краткая теория по СКВ.............................................................................2**
3. **Выполнение лабораторной работы.........................................................3**
4. **Выводы.......................................................................................................17**

**Цель лабораторной работы**:

Ознакомление с системами контроля версий, получение навыков работы с ними на примере Git Hub.

**Краткая теория по СКВ:**

Система контроля версий (СКВ) — это система, регистрирующая изменения в одном или нескольких файлах с тем, чтобы в дальнейшем была возможность вернуться к определённым старым версиям этих файлов.

**Существуют:**

**Локальные системы контроля версий (rcs)**

Это замена обычному копированию. С их помощью можно с лёгкостью следить за изменением нужных файлов , не теряя их на устройстве. Кроме того ЛСКВ даёт возможность возвращать отдельные файлы к прежнему виду, возвращать к прежнему состоянию весь проект, просматривать происходящие со временем изменения и многое другое.

**Централизованные системы контроля версий(CVS, Subversion и Perforce)**

Замена ЛСКВ . Позволяет нескольким разработчикам за разными компьютерами сотрудничать между собой. Все знают, кто и чем занимается в проекте, администрировать ЦСКВ намного легче, чем локальные базы на каждом клиенте.

Однако есть и несколько серьёзных недостатков. Наиболее очевидный — централизованный сервер является уязвимым местом всей системы. Если сервер выключается на час, то в течение часа разработчики не могут взаимодействовать, и никто не может сохранить новой версии своей работы. Если же повреждается диск с центральной базой данных и нет резервной копии, вы теряете абсолютно всё — всю историю проекта, разве что за исключением нескольких рабочих версий, сохранившихся на рабочих машинах пользователей. Локальные системы контроля версий подвержены той же проблеме.

**Распределённые системы контроля версий (Git, Mercurial, Bazaar или Darcs)**

Замена ЦСКВ. В таких системах клиенты не просто выгружают последние версии файлов, а полностью копируют весь репозиторий. Поэтому в случае, когда "умирает" сервер, через который шла работа, любой клиентский репозиторий может быть скопирован обратно на сервер, чтобы восстановить базу данных. Каждый раз, когда клиент забирает свежую версию файлов, он создаёт себе полную копию всех данных.

Кроме того, в большей части этих систем можно работать с несколькими удалёнными репозиториями, таким образом, можно одновременно работать по-разному с разными группами людей в рамках одного проекта. Так, в одном проекте можно одновременно вести несколько типов рабочих процессов, что невозможно в централизованных системах.

**Выполнение лабораторной работы:**

Создав учётную запись, репозиторий, настраиваем имя пользователя и адрес электронной почты. Затем инициализируем заранее выбранную папку как git репозиторий командой *git init* .

Создаём файл и пишем *git stаtus* , чтобы проверить состояние нашего локального репозитория. Видим , что есть новый файл, но он не отслеживается. Так как у нас один файл пишем команду *git add Text.txt* , чтобы его добавть в отслеживаемые, тем самым подготовив к коммиту.

Проверив состояние репозитория, убеждаемся в том что файл готов к коммиту и пишем команду *git commit –m “first commit”* . Далее локальный связываем репозиторий с репозиторием на Git Hub командой *git remote add origin* [*https://github.com/AlexndT/Lab\_1*](https://github.com/AlexndT/Lab_1) *.*

Далее, проверив к какому проекту мы подключены командой *git remote -v ,* попытаемся получить данные с репозитория ( пока что пустого , так что просто проверяем команду) командой *git pull origin master* . Так как не была произведена авторизация , то сделать это не получилось.

Microsoft Windows [Version 10.0.19044.2846]

(c) Корпорация Майкрософт (Microsoft Corporation). Все права защищены.

C:\Users\Frost>git config --global user.name "vitec24"

C:\Users\Frost>git config --global user.email bissmark.leo@mail.ru

C:\Users\Frost>cd documents

C:\Users\Frost\Documents>cd morozov

C:\Users\Frost\Documents\Morozov>git init

Reinitialized existing Git repository in C:/Users/Frost/Documents/Morozov/.git/

C:\Users\Frost\Documents\Morozov>git status

On branch master

Changes not staged for commit:

(use "git add/rm <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

deleted: README.md

Untracked files:

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

ghhg.txt

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

C:\Users\Frost\Documents\Morozov>git add ghhg.txt

C:\Users\Frost\Documents\Morozov>git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: ghhg.txt

Changes not staged for commit:

(use "git add/rm <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

deleted: README.md

C:\Users\Frost\Documents\Morozov>git add .

C:\Users\Frost\Documents\Morozov>git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

deleted: README.md

new file: ghhg.txt

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

[master c363a3f] first commit

2 files changed, 1 insertion(+), 2 deletions(-)

delete mode 100644 README.md

create mode 100644 ghhg.txt

C:\Users\Frost\Documents\Morozov>git status

On branch master

nothing to commit, working tree clean

C:\Users\Frost\Documents\Morozov>https://github.com/vitec24/frost1.git

"https:" не является внутренней или внешней

командой, исполняемой программой или пакетным файлом.

C:\Users\Frost\Documents\Morozov>git remote add origin https://github.com/vitec24/frost1.git

error: remote origin already exists.

C:\Users\Frost\Documents\Morozov>git remote -v

origin https://github.com/vitec24/frost.git (fetch)

origin https://github.com/vitec24/frost.git (push)

C:\Users\Frost\Documents\Morozov>git remote rm origin https://github.com/vitec24/frost.git

usage: git remote remove <name>

C:\Users\Frost\Documents\Morozov>git remote add origin https://github.com/vitec24/frost1.git

error: remote origin already exists.

C:\Users\Frost\Documents\Morozov>git remote -v

origin https://github.com/vitec24/frost.git (fetch)

origin https://github.com/vitec24/frost.git (push)

C:\Users\Frost\Documents\Morozov>git remote rm origin https://github.com/vitec24/frost.git

usage: git remote remove <name>

C:\Users\Frost\Documents\Morozov>git remote rm origin "https://github.com/vitec24/frost.git"

usage: git remote remove <name>

C:\Users\Frost\Documents\Morozov>git pull origin master --allow-unrelated-histories

From https://github.com/vitec24/frost

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git remote -v

origin https://github.com/vitec24/frost.git (fetch)

origin https://github.com/vitec24/frost.git (push)

C:\Users\Frost\Documents\Morozov>git remote rm origin "https://github.com/vitec24/frost.git"

usage: git remote remove <name>

C:\Users\Frost\Documents\Morozov>git remote add origin https://github.com/vitec24/frost1.git

error: remote origin already exists.

C:\Users\Frost\Documents\Morozov>git remote rm origin https://github.com/vitec24/frost1.git

usage: git remote remove <name>

C:\Users\Frost\Documents\Morozov>git remote rm origin

C:\Users\Frost\Documents\Morozov>git remote add origin https://github.com/vitec24/frost1.git

C:\Users\Frost\Documents\Morozov>git remote -v

origin https://github.com/vitec24/frost1.git (fetch)

origin https://github.com/vitec24/frost1.git (push)

C:\Users\Frost\Documents\Morozov>git pull origin master

remote: Enumerating objects: 3, done.

remote: Counting objects: 100% (3/3), done.

remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (3/3), 595 bytes | 66.00 KiB/s, done.

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

\* [new branch] master -> origin/master

fatal: refusing to merge unrelated histories

C:\Users\Frost\Documents\Morozov>

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

fatal: refusing to merge unrelated histories

C:\Users\Frost\Documents\Morozov>git config --global credential.github.com.interactive always

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

fatal: refusing to merge unrelated histories

C:\Users\Frost\Documents\Morozov>git config --global credential.github.com.interactive auto

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

fatal: refusing to merge unrelated histories

C:\Users\Frost\Documents\Morozov>git log

commit c363a3f18100d6a7e3070d0220357b7b4fa994ab (HEAD -> master)

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:43:46 2023 +0300

first commit

commit 594faa700496a723c7ec3651bb8ac76c66badea8

Merge: b542bbf 064e6ea

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:27:57 2023 +0300

Merge branch 'main' of https://github.com/vitec24/frost

commit b542bbf93c97e1cf31abb053e8f773533376db29

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:19:33 2023 +0300

first commit

commit 064e6eaaf986ba1ef731e90a2156c0bc97d65cca

Author: vitec24 <132447373+vitec24@users.noreply.github.com>

Date: Wed May 3 12:51:21 2023 +0300

Initial commit

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

fatal: refusing to merge unrelated histories

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

fatal: refusing to merge unrelated histories

C:\Users\Frost\Documents\Morozov>git pull origin master --allow-unrelated-histories

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

Merge made by the 'ort' strategy.

README.md | 2 ++

1 file changed, 2 insertions(+)

create mode 100644 README.md

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin master

Enumerating objects: 15, done.

Counting objects: 100% (15/15), done.

Delta compression using up to 8 threads

Compressing objects: 100% (8/8), done.

Writing objects: 100% (13/13), 1.61 KiB | 1.61 MiB/s, done.

Total 13 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/vitec24/frost1.git

750ce10..8fd6212 master -> master

C:\Users\Frost\Documents\Morozov>git log

commit 8fd6212fd167ccf3e79538181b8644b910c75eb2 (HEAD -> master, origin/master)

Merge: c363a3f 750ce10

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:55:15 2023 +0300

Merge branch 'master' of https://github.com/vitec24/frost1

commit c363a3f18100d6a7e3070d0220357b7b4fa994ab

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:43:46 2023 +0300

first commit

commit 750ce10905b1f8f622b7601a8d813d3bd49d481a

Author: vitec24 <132447373+vitec24@users.noreply.github.com>

Date: Wed May 3 13:37:36 2023 +0300

Initial commit

commit 594faa700496a723c7ec3651bb8ac76c66badea8

Merge: b542bbf 064e6ea

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:27:57 2023 +0300

Merge branch 'main' of https://github.com/vitec24/frost

commit b542bbf93c97e1cf31abb053e8f773533376db29

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:19:33 2023 +0300

C:\Users\Frost\Documents\Morozov>git branch second

C:\Users\Frost\Documents\Morozov>git brinch

git: 'brinch' is not a git command. See 'git --help'.

The most similar command is

branch

C:\Users\Frost\Documents\Morozov>git branch

\* master

second

C:\Users\Frost\Documents\Morozov>git checkout second

Switched to branch 'second'

C:\Users\Frost\Documents\Morozov>fit status

"fit" не является внутренней или внешней

командой, исполняемой программой или пакетным файлом.

C:\Users\Frost\Documents\Morozov>git status

On branch second

Untracked files:

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

qwerty.txt

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

C:\Users\Frost\Documents\Morozov>git add qwerty.txt

C:\Users\Frost\Documents\Morozov>git status

On branch second

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: qwerty.txt

C:\Users\Frost\Documents\Morozov>git push origin second

Total 0 (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/vitec24/frost1/pull/new/second

remote:

To https://github.com/vitec24/frost1.git

\* [new branch] second -> second

C:\Users\Frost\Documents\Morozov>git pull origin second

From https://github.com/vitec24/frost1

\* branch second -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git remote -v

origin https://github.com/vitec24/frost1.git (fetch)

origin https://github.com/vitec24/frost1.git (push)

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

[second bf1233d] first commit

1 file changed, 1 insertion(+)

create mode 100644 qwerty.txt

C:\Users\Frost\Documents\Morozov>git remote -v

origin https://github.com/vitec24/frost1.git (fetch)

origin https://github.com/vitec24/frost1.git (push)

C:\Users\Frost\Documents\Morozov>git pull origin second

From https://github.com/vitec24/frost1

\* branch second -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin second

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 337 bytes | 337.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/vitec24/frost1.git

8fd6212..bf1233d second -> second

C:\Users\Frost\Documents\Morozov>git log

commit bf1233de4cfd1e0ce6f4b31b84c59328e83698dc (HEAD -> second, origin/second)

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 14:07:50 2023 +0300

first commit

commit 8fd6212fd167ccf3e79538181b8644b910c75eb2 (origin/master, master)

Merge: c363a3f 750ce10

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:55:15 2023 +0300

Merge branch 'master' of https://github.com/vitec24/frost1

commit c363a3f18100d6a7e3070d0220357b7b4fa994ab

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:43:46 2023 +0300

first commit

commit 750ce10905b1f8f622b7601a8d813d3bd49d481a

Author: vitec24 <132447373+vitec24@users.noreply.github.com>

Date: Wed May 3 13:37:36 2023 +0300

Initial commit

commit 594faa700496a723c7ec3651bb8ac76c66badea8

Merge: b542bbf 064e6ea

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:27:57 2023 +0300

Merge branch 'main' of https://github.com/vitec24/frost

commit b542bbf93c97e1cf31abb053e8f773533376db29

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:19:33 2023 +0300

first commit

commit 064e6eaaf986ba1ef731e90a2156c0bc97d65cca

Author: vitec24 <132447373+vitec24@users.noreply.github.com>

Date: Wed May 3 12:51:21 2023 +0300

Initial commit

C:\Users\Frost\Documents\Morozov>git push origin master

Everything up-to-date

C:\Users\Frost\Documents\Morozov>git push origin master

Everything up-to-date

C:\Users\Frost\Documents\Morozov>git push origin second

Everything up-to-date

C:\Users\Frost\Documents\Morozov>git remote -v

origin https://github.com/vitec24/frost1.git (fetch)

origin https://github.com/vitec24/frost1.git (push)

C:\Users\Frost\Documents\Morozov>git push origin second

Everything up-to-date

C:\Users\Frost\Documents\Morozov>git pull origin second

From https://github.com/vitec24/frost1

\* branch second -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin second

Everything up-to-date

C:\Users\Frost\Documents\Morozov>git branch master

fatal: a branch named 'master' already exists

C:\Users\Frost\Documents\Morozov>git checkout maser

error: pathspec 'maser' did not match any file(s) known to git

C:\Users\Frost\Documents\Morozov>git checkout master

Switched to branch 'master'

C:\Users\Frost\Documents\Morozov>git merge second

Updating 8fd6212..bf1233d

Fast-forward

qwerty.txt | 1 +

1 file changed, 1 insertion(+)

create mode 100644 qwerty.txt

C:\Users\Frost\Documents\Morozov>git branch -d second

Deleted branch second (was bf1233d).

C:\Users\Frost\Documents\Morozov>git branch newdev

C:\Users\Frost\Documents\Morozov>git checkout newdev

Switched to branch 'newdev'

C:\Users\Frost\Documents\Morozov>git status

On branch newdev

Untracked files:

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

bj.txt

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

C:\Users\Frost\Documents\Morozov>git add bj.txt

C:\Users\Frost\Documents\Morozov>git status

On branch newdev

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: bj.txt

C:\Users\Frost\Documents\Morozov>git push origin second

error: src refspec second does not match any

error: failed to push some refs to 'https://github.com/vitec24/frost1.git'

C:\Users\Frost\Documents\Morozov>git push origin second

error: src refspec second does not match any

error: failed to push some refs to 'https://github.com/vitec24/frost1.git'

C:\Users\Frost\Documents\Morozov>git pull origin second

From https://github.com/vitec24/frost1

\* branch second -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin second

error: src refspec second does not match any

error: failed to push some refs to 'https://github.com/vitec24/frost1.git'

C:\Users\Frost\Documents\Morozov>git remote -v

origin https://github.com/vitec24/frost1.git (fetch)

origin https://github.com/vitec24/frost1.git (push)

C:\Users\Frost\Documents\Morozov>git pull origin second

From https://github.com/vitec24/frost1

\* branch second -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin newdev

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

remote:

remote: Create a pull request for 'newdev' on GitHub by visiting:

remote: https://github.com/vitec24/frost1/pull/new/newdev

remote:

To https://github.com/vitec24/frost1.git

\* [new branch] newdev -> newdev

C:\Users\Frost\Documents\Morozov>git pull origin second

From https://github.com/vitec24/frost1

\* branch second -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git pull origin newdev

From https://github.com/vitec24/frost1

\* branch newdev -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin newdev

Everything up-to-date

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

[newdev c0fb7df] first commit

1 file changed, 1 insertion(+)

create mode 100644 bj.txt

C:\Users\Frost\Documents\Morozov>git brinch

git: 'brinch' is not a git command. See 'git --help'.

The most similar command is

branch

C:\Users\Frost\Documents\Morozov>git pull origin mastergit branch

fatal: couldn't find remote ref mastergit

C:\Users\Frost\Documents\Morozov>git branch

master

\* newdev

C:\Users\Frost\Documents\Morozov>git checkout master

Switched to branch 'master'

C:\Users\Frost\Documents\Morozov>git merge newdev

Updating bf1233d..c0fb7df

Fast-forward

bj.txt | 1 +

1 file changed, 1 insertion(+)

create mode 100644 bj.txt

C:\Users\Frost\Documents\Morozov>git checkout newdev

Switched to branch 'newdev'

C:\Users\Frost\Documents\Morozov>git add bj.txt

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

[newdev 38fc9b7] first commit

1 file changed, 1 insertion(+), 1 deletion(-)

C:\Users\Frost\Documents\Morozov>git checkout master

Switched to branch 'master'

C:\Users\Frost\Documents\Morozov>git merge newdev

Updating c0fb7df..38fc9b7

Fast-forward

bj.txt | 2 +-

1 file changed, 1 insertion(+), 1 deletion(-)

C:\Users\Frost\Documents\Morozov>git diff

C:\Users\Frost\Documents\Morozov>git diff

C:\Users\Frost\Documents\Morozov>git diff

C:\Users\Frost\Documents\Morozov>git checkout second

C:\Users\Frost\Documents\Morozov>git push origin --delete second

To https://github.com/vitec24/frost1.git

- [deleted] second

C:\Users\Frost\Documents\Morozov>git log

commit 38fc9b772d7500a5eaa638617d10e19fa35e34d3 (HEAD -> master)

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 14:20:32 2023 +0300

first commit

commit c0fb7dff59395158dfcda90edb6ac71045f87063

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 14:17:05 2023 +0300

first commit

commit bf1233de4cfd1e0ce6f4b31b84c59328e83698dc

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 14:07:50 2023 +0300

first commit

commit 8fd6212fd167ccf3e79538181b8644b910c75eb2 (origin/master)

Merge: c363a3f 750ce10

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:55:15 2023 +0300

Merge branch 'master' of https://github.com/vitec24/frost1

commit c363a3f18100d6a7e3070d0220357b7b4fa994ab

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:43:46 2023 +0300

first commit

commit 750ce10905b1f8f622b7601a8d813d3bd49d481a

Author: vitec24 <132447373+vitec24@users.noreply.github.com>

Date: Wed May 3 13:37:36 2023 +0300

Initial commit

commit 594faa700496a723c7ec3651bb8ac76c66badea8

Merge: b542bbf 064e6ea

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:27:57 2023 +0300

Merge branch 'main' of https://github.com/vitec24/frost

commit b542bbf93c97e1cf31abb053e8f773533376db29

Author: vitec24 <bissmark.leo@mail.ru>

Date: Wed May 3 13:19:33 2023 +0300

first commit

commit 064e6eaaf986ba1ef731e90a2156c0bc97d65cca

Author: vitec24 <132447373+vitec24@users.noreply.github.com>

Date: Wed May 3 12:51:21 2023 +0300

Initial commit

C:\Users\Frost\Documents\Morozov>git checkout b542bb

Note: switching to 'b542bb'.

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 switching back to a branch.

If you want to create a new branch to retain commits you create, you may

do so (now or later) by using -c with the switch command. Example:

git switch -c <new-branch-name>

Or undo this operation with:

git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at b542bbf first commit

C:\Users\Frost\Documents\Morozov>git branch

\* (HEAD detached at b542bbf)

master

C:\Users\Frost\Documents\Morozov>git reset --hard HEAD

HEAD is now at b542bbf first commit

C:\Users\Frost\Documents\Morozov>git checkout master

Previous HEAD position was b542bbf first commit

Switched to branch 'master'

C:\Users\Frost\Documents\Morozov>git branch

\* master

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>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.addEmptyPathspec false"

C:\Users\Frost\Documents\Morozov>git add .

C:\Users\Frost\Documents\Morozov>git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: FETCH\_HEAD

new file: cd

new file: fit

new file: git

new file: master

new file: master)

new file: newdev

new file: second

C:\Users\Frost\Documents\Morozov>git reset HEAD

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

"\320\235\320\276\320\262\321\213\320\271 \321\202\320\265\320\272\321\201\321\202\320\276\320\262\321\213\320\271 \320\264\320\276\320\272\321\203\320\274\320\265\320\275\321\202.gitignore"

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

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

1.gitignore

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git add 1.gitignore

C:\Users\Frost\Documents\Morozov>git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: 1.gitignore

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

[master 45cdc61] first commit

1 file changed, 1 insertion(+)

create mode 100644 1.gitignore

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin master

Enumerating objects: 13, done.

Counting objects: 100% (13/13), done.

Delta compression using up to 8 threads

Compressing objects: 100% (8/8), done.

Writing objects: 100% (12/12), 992 bytes | 992.00 KiB/s, done.

Total 12 (delta 3), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (3/3), done.

To https://github.com/vitec24/frost1.git

8fd6212..45cdc61 master -> master

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git status

On branch master

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: 1.gitignore

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git add 1.gitignore

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin master

Everything up-to-date

C:\Users\Frost\Documents\Morozov>git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

modified: 1.gitignore

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

[master 3c43cc1] first commit

1 file changed, 1 insertion(+), 1 deletion(-)

C:\Users\Frost\Documents\Morozov>git push origin master

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 277 bytes | 277.00 KiB/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/vitec24/frost1.git

45cdc61..3c43cc1 master -> master

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git add 1.gitignore

C:\Users\Frost\Documents\Morozov>git reset --hard HEAD

HEAD is now at 3c43cc1 first commit

C:\Users\Frost\Documents\Morozov>git add 1.gitignore

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git add 1.gitignore

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin master

Everything up-to-date

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git add bj.txt

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

ggg.txt

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git status

On branch master

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: 1.gitignore

Untracked files:

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

FETCH\_HEAD

cd

fit

ggg.txt

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git add 1.gitignore

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

[master a13006e] first commit

1 file changed, 1 insertion(+), 1 deletion(-)

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

ggg.txt

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git push origin master

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 272 bytes | 272.00 KiB/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/vitec24/frost1.git

3c43cc1..a13006e master -> master

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

ggg.txt

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git add ggg.txt

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

[master 531a7a1] first commit

1 file changed, 1 insertion(+)

create mode 100644 ggg.txt

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin master

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 267 bytes | 267.00 KiB/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/vitec24/frost1.git

a13006e..531a7a1 master -> master

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git status

On branch master

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: 1.gitignore

Untracked files:

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

FETCH\_HEAD

cd

fit

gggg.txt

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git add 1.gitignore

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

[master 0fe9809] first commit

1 file changed, 2 insertions(+), 1 deletion(-)

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin master

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 279 bytes | 279.00 KiB/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/vitec24/frost1.git

531a7a1..0fe9809 master -> master

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

gggg.txt

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>git add gggg.txt

C:\Users\Frost\Documents\Morozov>git commit -m "first commit"

[master 5f0b9e6] first commit

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 gggg.txt

C:\Users\Frost\Documents\Morozov>git pull origin master

From https://github.com/vitec24/frost1

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\Frost\Documents\Morozov>git push origin master

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 261 bytes | 261.00 KiB/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/vitec24/frost1.git

0fe9809..5f0b9e6 master -> master

C:\Users\Frost\Documents\Morozov>git status

On branch master

Untracked files:

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

FETCH\_HEAD

cd

fit

git

master

master)

newdev

second

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

C:\Users\Frost\Documents\Morozov>

**Выводы:**

В данной лабораторной работе мы научились работать с Git Hub , а именно настраивать репозиторий, отправлять файлы на сервер (предварительно добавив и закоммитив), добавлять/удалять ветки , сливать их , устранять конфликты и так далее.