

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

Факультет физико-математических и естественных наук
Кафедра прикладной информатики и теории вероятностей

ОТЧЕТ ПО ЛАБОРАТОРНОЙ РАБОТЕ № 2

дисциплина: Архитектура компьютера

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Группа: НБИ-01-25

МОСКВА

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Цель работы

Целью работы является изучить идеологию и применение средств контроля версий. Приобрести практические навыки по работе с системой git.

Ход работы

Регистрирую учетную запись на GitHub

Приступаю к созданию репозитория на основе шаблона.

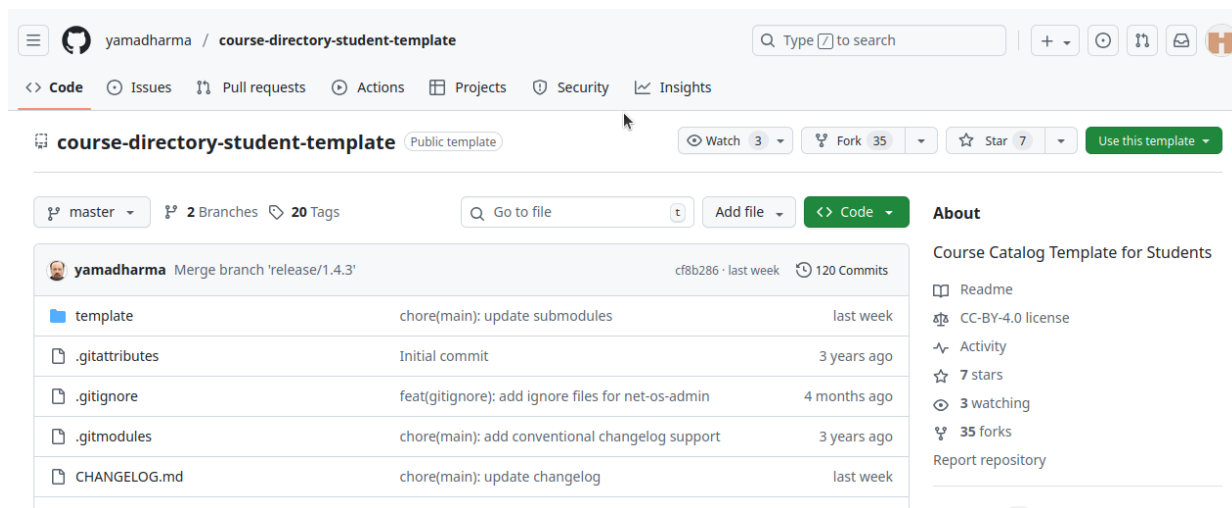


Рисунок 1

Start with a template

Templates pre-configure your repository with files.

Include all branches

If enabled, all branches from the template repository will be included.

Off

yamadharm/course-directory-student-template

1

General

Owner *

Madina-Dzhuraboeva

Repository name *

study_2025_2026_arch-pc

study_2025_2026_arch-pc is available.

Great repository names are short and memorable. How about cautious-octo-broccoli?

Description

0 / 350 characters

2

Configuration

Choose visibility *

Choose who can see and commit to this repository

Public

Create repository

Рисунок 2

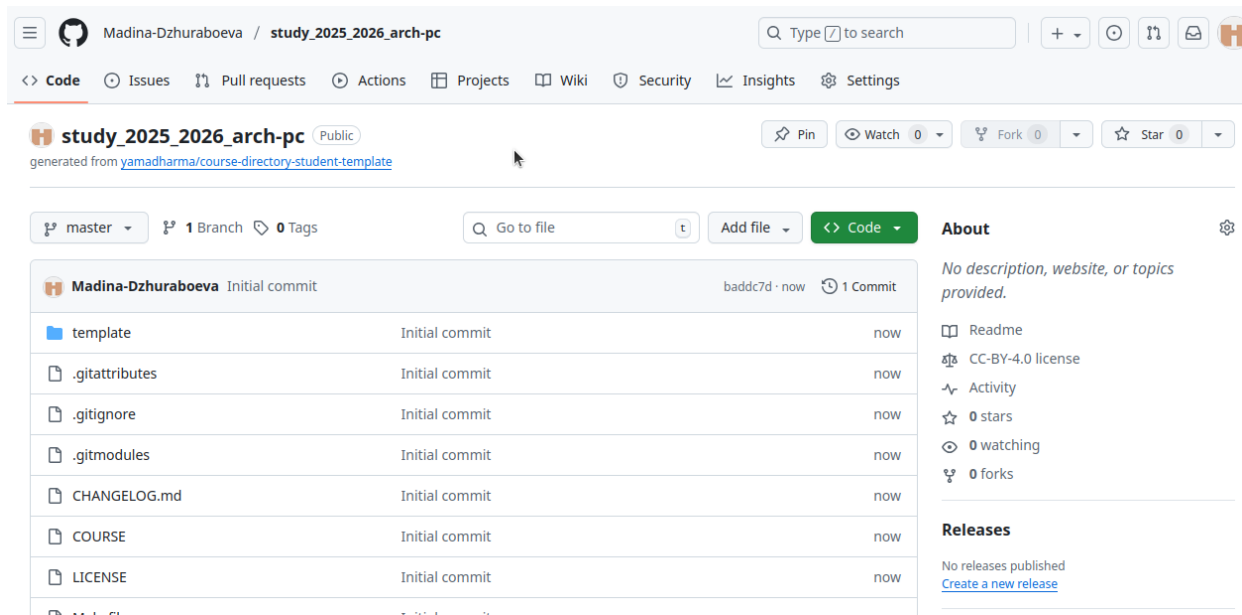


Рисунок 3

Теперь подключимся к репозиторию из системы линукс.

Для этого задаем параметры.

```
mdzhuraboeva@Ubuntu-VirtualBox:~$ git config --global user.name "Madina-Dzhuraboeva"
mdzhuraboeva@Ubuntu-VirtualBox:~$ git config --global user.email "1032251943@pfur.ru"
mdzhuraboeva@Ubuntu-VirtualBox:~$ git config --global core.quotepath false
mdzhuraboeva@Ubuntu-VirtualBox:~$ git config --global init.defaultBranch master
mdzhuraboeva@Ubuntu-VirtualBox:~$ git config --global core.autocrlf input
mdzhuraboeva@Ubuntu-VirtualBox:~$ git config --global core.safecrlf warn
mdzhuraboeva@Ubuntu-VirtualBox:~$
```

Рисунок 4

SSH ключ нужен для авторизации пользователя. Создаем его

```
Created directory '/home/mdzhuraboeva/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/mdzhuraboeva/.ssh/id_ed25519
Your public key has been saved in /home/mdzhuraboeva/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:L04Et//g9JklatPo50K0KX1t3gh0ewMzkNXrnat6Qdw Madina-Dzhuraboeva 1032251943
@pfur.ru
The key's randomart image is:
+--[ED25519 256]--+
|                 o.. |
|                 o  . |
|                . .  o . |
|                o .. *.E |
|                So +.o=.o |
|                ..o= o.++o |
|                oo+=+.o+o |
|                o +=o*o.. |
|                .o+*O.. |
+-----[SHA256]-----+
mdzhuraboeva@Ubuntu-VirtualBox:~$ cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIJtnI8ALmLsZlgapGnbZFjBaIsot7FZntpXFNcvTPTpR
Madina-Dzhuraboeva 1032251943@pfur.ru
mdzhuraboeva@Ubuntu-VirtualBox:~$
```

Рисунок 5

Теперь данные ключа нужно добавить в профиль на гитхабе. Тогда гитхаб будет узнавать нас по ключу.

Public profile

Account

Appearance

Accessibility

Notifications

Access

Billing and licensing

Emails

Password and authentication

Sessions

SSH and GPG keys

Organizations

Enterprises

Moderation

Code, planning, and automation

Repositories

Go to your personal profile

Add new SSH Key

Title

key

Key type

Authentication Key

Key

ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIJtnI8ALmLsZlgapGnbZFjBaIsot7FZntpXFNcvTPTpR Madina-Dzhuraboeva 1032251943@pfur.ru

Add SSH key

Рисунок 6

Public profile

Account

Appearance

Accessibility

Notifications

Access

Billing and licensing

Emails

Password and authentication

Sessions

SSH and GPG keys

Organizations

Enterprises

Go to your personal profile

SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

Authentication keys

key

SHA256:L04Et//g93k1atPo50K0KX1t3gh0ewMzkNXrnat6Qdw

Added on Oct 7, 2025

Never used — Read/write

Delete

Check out our guide to [connecting to GitHub using SSH keys](#) or troubleshoot [common SSH problems](#).

GPG keys

New GPG key

There are no GPG keys associated with your account.

Learn how to [generate a GPG key and add it to your account](#).

Рисунок 7

Создаем папку на компьютере и клонируем в нее содержимое репозитория, т е шаблон.

```
mdzhuraboeva@Ubuntu-VirtualBox:~$ mkdir -p ~/work/study/2025-2026/"Архитектура компьютера"
mdzhuraboeva@Ubuntu-VirtualBox:~$ cd ~/work/study/2025-2026/"Архитектура компьютера"
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера$ git clone --recursive git@github.com:Madina-Dzhuraboeva/study_2025_2026_arch-pc.git
Cloning into 'study_2025_2026_arch-pc'...
The authenticity of host 'github.com (140.82.121.4)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdKr4UvCOqU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 38, done.
remote: Counting objects: 100% (38/38), done.
remote: Compressing objects: 100% (36/36), done.
remote: Total 38 (delta 1), reused 28 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (38/38), 23.53 KiB | 3.36 MiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yamadharma/academic-presentation-markdown-template.git)
registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yamadharma/academic-laboratory-report-template.git) registered
for path 'template/report'
Cloning into '/home/mdzhuraboeva/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc/template/'
```

Рисунок 8

Оформили курс по шаблону и загрузили в сетевой репозиторий

```
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера$
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера$ cd study_2025_2026_arch-pc/
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ echo arc
h-pc > COURSE
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ make pre
pare
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ ls
COURSE LICENSE package.json presentation README.git-flow.md template
labs Makefile prepare README.en.md README.md
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$
```

Рисунок 9

```

create mode 100644 presentation/presentation/image/kulyabov.jpg
create mode 100644 presentation/report/.gitignore
create mode 100644 presentation/report/.marksmen.toml
create mode 100644 presentation/report/.projectile
create mode 100644 presentation/report/Makefile
create mode 100644 presentation/report/_assets/preamble.tex
create mode 100644 presentation/report/_quarto.yml
create mode 100644 presentation/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 presentation/report/arch-pc--presentation--report.qmd
create mode 100644 presentation/report/bib/cite.bib
create mode 100644 presentation/report/image/solvay.jpg
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ git push
Enumerating objects: 74, done.
Counting objects: 100% (74/74), done.
Delta compression using up to 4 threads
Compressing objects: 100% (58/58), done.
Writing objects: 100% (71/71), 700.98 KiB | 4.83 MiB/s, done.
Total 71 (delta 25), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (25/25), completed with 1 local object.
To github.com:Madina-Dzhuraboeva/study_2025_2026_arch-pc.git
   baddc7d..982c69b master -> master
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$

```

Рисунок 10

Также загрузили в сетевой репозиторий отчеты по сделанным работам

```

mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ git add
.
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ git comm
it -am 'feat(main): add lab'
[master 02c6c15] feat(main): add lab
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 labs/lab01/report/Л01-Джурабоева-НБИ-01-25.docx
create mode 100644 labs/lab01/report/Л01-Джурабоева-НБИ-01-25.pdf
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$ git push
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 4 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 1.48 MiB | 10.21 MiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To github.com:Madina-Dzhuraboeva/study_2025_2026_arch-pc.git
   982c69b..02c6c15 master -> master
mdzhuraboeva@Ubuntu-VirtualBox:~/work/study/2025-2026/Архитектура компьютера/study_2025_2026_arch-pc$

```

Рисунок 11

Вывод:

В ходе выполнения работы изучили работу с GitHub.