

Отчет по лабораторной работе №2

Архитектура компьютера

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1 Цель работы

Изучить идеологию и применение средств контроля версий. Приобрести практические навыки по работе с системой git.

2 Выполнение лабораторной работы

Я создала gmail-почту для регистрации на сайте github. Далее я начала создавать репозиторий, основываясь на шаблоне от Кулябова Дмитрия Сергеевича. (рис. 2.1).

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (*).

Repository template

yamadharm/course-directory-student-template

Start your repository with a template repository's contents.

☐ **Include all branches**
Copy all branches from yamadharm/course-directory-student-template and not just the default branch.

Owner * **Repository name ***

Linochkas / study_2024-2025_arh-pc

✔ Your new repository will be created as study_2024-2025_arh-pc.
The repository name can only contain ASCII letters, digits, and the characters -, ., and _.

Great repository names are short and memorable. Need inspiration? How about [verbose-octo-disco](#) ?

Description (optional)

☒ **Public**
Anyone on the internet can see this repository. You choose who can commit.

☐ **Private**
You choose who can see and commit to this repository.

ⓘ You are creating a public repository in your personal account.

[Create repository](#)

Рис. 2.1: шаблон репозитория

(рис. 2.2).

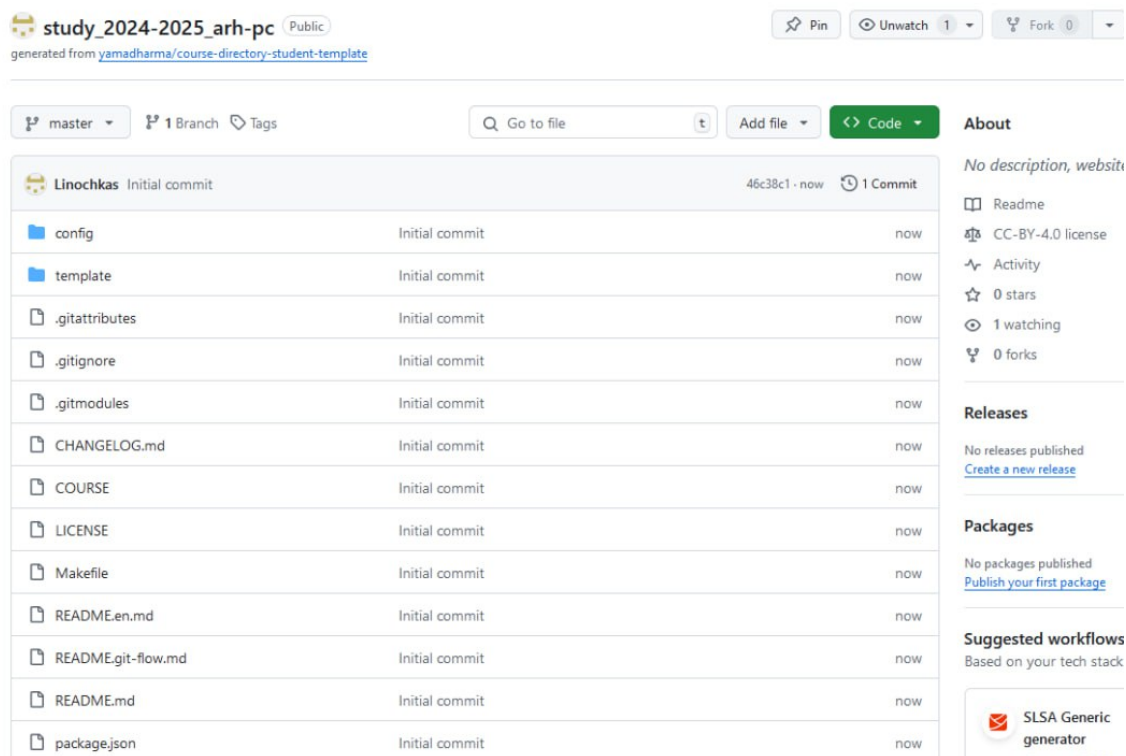


Рис. 2.2: созданный репозиторий

Затем я настроила доступ к репозиторию из системы Linux.(рис. 2.3).

```
assafiullina@pfur:~$ git config --global user.name "<Safiullina Ailina>"
assafiullina@pfur:~$ git config --global user.email "kismurpur2007@gmail.com"
assafiullina@pfur:~$ git config --global core.quotePath false
assafiullina@pfur:~$ git config --global init.defaultBranch master
assafiullina@pfur:~$ git config --global core.autocrlf input
assafiullina@pfur:~$ git config --global core.safecrlf warn
assafiullina@pfur:~$ git config --list
user.name=<Safiullina Ailina>
user.email=kismurpur2007@gmail.com
core.quotePath=false
core.autocrlf=input
core.safecrlf=warn
init.defaultbranch=master
assafiullina@pfur:~$
```

Рис. 2.3: настройка параметров

Для этого мне понадобилось создать SSH-ключ, который нужен для безопасной авторизации. (рис. 2.4).

```

assafiullina@pfur:~$ ssh-keygen -C "Safiullina Ailina kismurpur2007@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/assafiullina/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/assafiullina/.ssh/id_ed25519
Your public key has been saved in /home/assafiullina/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:Df6mUASrs10rawu9C+kjItmKvc75LR21QfZx9ZLdCKo Safiullina Ailina kismurpur2007@gmail.com
The key's randomart image is:
+--[ED25519 256]--+
|      .      .      .      .      .      .      .      .      .      .      |
|      oo     .oo.   .oo.   .oo.   .oo.   .oo.   .oo.   .oo.   .oo.   .oo.   |
|      .oo..o  + +   .oo..o  + +   .oo..o  + +   .oo..o  + +   .oo..o  + +   |
|      . oo+.    .    . oo+.    .    . oo+.    .    . oo+.    .    . oo+.    .    |
|      o  .Eo.      o  .Eo.      o  .Eo.      o  .Eo.      o  .Eo.      o  .Eo.      |
|      *.O.o       *.O.o       *.O.o       *.O.o       *.O.o       *.O.o       |
|      o  =.. o    o  =.. o    o  =.. o    o  =.. o    o  =.. o    o  =.. o    |
|      |0000+0= o  |0000+0= o  |0000+0= o  |0000+0= o  |0000+0= o  |0000+0= o  |
|      |++*+o+*o.  |++*+o+*o.  |++*+o+*o.  |++*+o+*o.  |++*+o+*o.  |++*+o+*o.  |
+-----[SHA256]-----+
assafiullina@pfur:~$

```

Рис. 2.4: SSH-key

Далее я создала локальную папку на компьютере и клонировала в нее содержимое репозитория (рис. 2.5).

```

assafiullina@pfur:~/work/study/2024-2025/Architektura computera$ git clone --recursive git@github.com:Linochkas/study_2024-2025_arh-pc
Cloning into 'study_2024-2025_arh-pc'...
The authenticity of host 'github.com (140.82.121.4)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 33, done.
remote: Counting objects: 100% (33/33), done.
remote: Compressing objects: 100% (32/32), done.
remote: Total 33 (delta 1), reused 18 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (33/33), 18.81 KiB | 4.70 MiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yamadharna/academic-presentation-markdown-template.git) registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yamadharna/academic-laboratory-report-template.git) registered for path 'template/report'
Cloning into '/home/assafiullina/work/study/2024-2025/Architektura computera/study_2024-2025_arh-pc/template/presentation'...
remote: Enumerating objects: 111, done.
remote: Counting objects: 100% (111/111), done.
remote: Compressing objects: 100% (77/77), done.
remote: Total 111 (delta 42), reused 100 (delta 31), pack-reused 0 (from 0)
Receiving objects: 100% (111/111), 102.17 KiB | 1.04 MiB/s, done.

```

Рис. 2.5: клонирование репозитория

(рис. 2.6).


```
24-2025_arh-pc.git
Cloning into 'study_2024-2025_arh-pc'...
remote: Enumerating objects: 33, done.
remote: Counting objects: 100% (33/33), done.
remote: Compressing objects: 100% (32/32), done.
remote: Total 33 (delta 1), reused 18 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (33/33), 18.81 KiB | 4.70 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/assafiullina/work/study/2024-2025/Architektura computera/study_2024-2025_arh-pc/template/presentation'...
remote: Enumerating objects: 111, done.
remote: Counting objects: 100% (111/111), done.
remote: Compressing objects: 100% (77/77), done.
remote: Total 111 (delta 42), reused 100 (delta 31), pack-reused 0 (from 0)
Receiving objects: 100% (111/111), 102.17 KiB | 1.17 MiB/s, done.
Resolving deltas: 100% (42/42), done.
Cloning into '/home/assafiullina/work/study/2024-2025/Architektura computera/study_2024-2025_arh-pc/template/report'...
remote: Enumerating objects: 142, done.
remote: Counting objects: 100% (142/142), done.
remote: Compressing objects: 100% (97/97), done.
remote: Total 142 (delta 60), reused 121 (delta 39), pack-reused 0 (from 0)
Receiving objects: 100% (142/142), 341.09 KiB | 1.97 MiB/s, done.
Resolving deltas: 100% (60/60), done.
Submodule path 'template/presentation': checked out 'c9b2712b4b2d431ad5086c9c72a02bd2fca1d4a6'
Submodule path 'template/report': checked out 'c26e22effe7b3e0495707d82ef561ab185f5c748'
assafiullina@pfur:~/work/study/2024-2025/Architektura computera$
```

Рис. 2.6: продолжение кода

3 Выводы

В ходе выполнения данной лабораторной работы я освоила основные принципы работы с GitHub, создала там учетную запись, а также получила опыт работы с системой контроля версий.