

Отчёт по лабораторной работе 2

Архитектура компьютера

Когенгар Ришард

Содержание

1	Цель работы	5
2	Выполнение лабораторной работы	6
3	Выводы	14

Список иллюстраций

2.1	Регистрация профиля	6
2.2	Мой профиль	7
2.3	Шаблон репозитория	8
2.4	Использование шаблона	9
2.5	Команда git	10
2.6	Параметры git	10
2.7	ssh ключ	11
2.8	Добавляю ключ	11
2.9	Создание рабочего каталога	12
2.10	Создание структуры курса	12
2.11	Загрузка файлов	13

Список таблиц

1 Цель работы

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

2 Выполнение лабораторной работы

Создаю профиль на гитхабе.

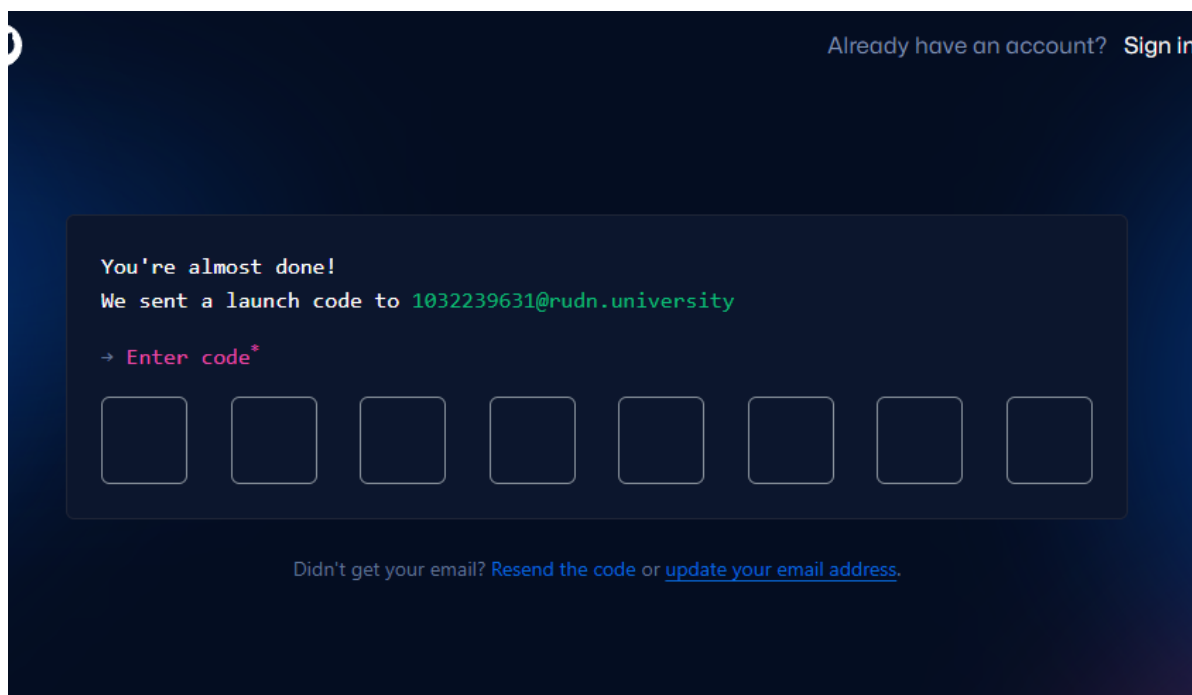


Рис. 2.1: Регистрация профиля

Профиль создан

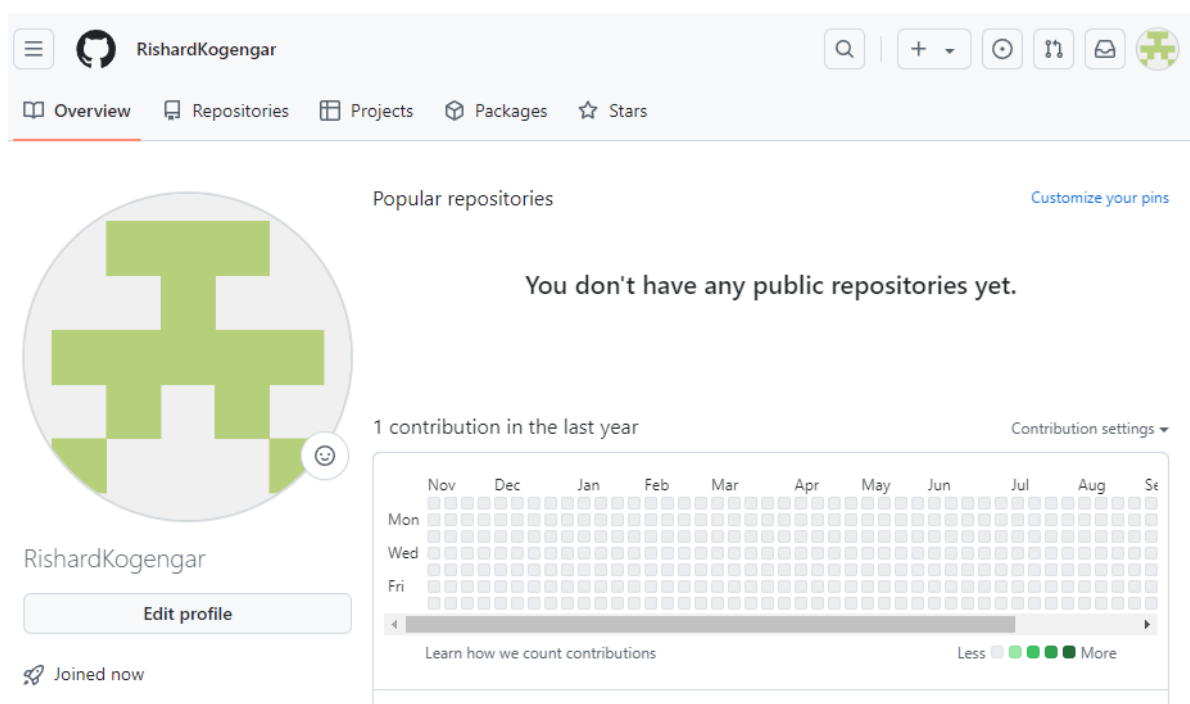


Рис. 2.2: Мой профиль

Теперь нужно создать репозиторий. Для этого захожу в репозиторий преподавателя и выбираю его как шаблон.

yamadharmaa / course-directory-student-template

<> Code

Issues

Pull requests

Actions

Projects

Security

Insights

course-directory-stu...

Public template

Watch

3

Fork

29

Star

5

Use this template

master

Go to file

+

<> Code

yamadharmaa

Merge branch 'release/1.0.9'

8aa7fcb · 3 months ago

config	feat(course): add os2	3 months ago
template	chore(main): update submodules	3 months ago
.gitattributes	Initial commit	2 years ago
.gitignore	Initial commit	2 years ago
.gitmodules	chore(main): add conventional cha...	2 years ago
CHANGELOG.md	chore(main): update changelog	3 months ago
COURSE	feat(script): add script for auto-det...	2 years ago
LICENSE	Initial commit	2 years ago
Makefile	fix(make): update defaults	9 months ago
README.md	chore(submodules): update subm	2 years ago

About

Course Catalog Template for Students

Readme

CC-BY-4.0 license

Activity

5 stars

3 watching

29 forks

Report repository

Releases

9

v1.0.9

Latest

on Aug 31

+ 8 releases

Рис. 2.3: Шаблон репозитория

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 *

 **RishardKogengar** ▾

Repository name *

/

✔ arch-pc is available.

Great repository names are short and memorable. Need inspiration? How about **solid-octo-potato** ?

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. 2.4: Использование шаблона

Установил программу гит

```
rishard@Ubuntu:~$  
rishard@Ubuntu:~$ git  
usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]  
        [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]  
        [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]  
        [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]  
        <command> [<args>]  
  
These are common Git commands used in various situations:  
  
start a working area (see also: git help tutorial)  
  clone             Clone a repository into a new directory  
  init              Create an empty Git repository or reinitialize an existing one  
  
work on the current change (see also: git help everyday) |  
  add               Add file contents to the index  
  mv                Move or rename a file, a directory, or a symlink  
  restore           Restore working tree files  
  rm                Remove files from the working tree and from the index  
  sparse-checkout   Initialize and modify the sparse-checkout  
  
examine the history and state (see also: git help revisions)  
  bisect            Use binary search to find the commit that introduced a bug  
  diff              Show changes between commits, commit and working tree, etc  
  grep              Print lines matching a pattern  
  log               Show commit logs  
  show              Show various types of objects  
  status            Show the working tree status  
  
grow, mark and tweak your common history  
  branch            List, create, or delete branches  
  commit            Record changes to the repository  
  merge             Join two or more development histories together
```

Рис. 2.5: Команда git

Нужно задать контакты пользователя, параметры веток и параметры символов.

```
rishard@Ubuntu:~$  
rishard@Ubuntu:~$ git config --global user.name "RishardKogengar"  
rishard@Ubuntu:~$ git config --global user.email "1032239631@pfur.ru"  
  
rishard@Ubuntu:~$ git config --global core.quotepath false  
rishard@Ubuntu:~$ git config --global init.defaultBranch master  
rishard@Ubuntu:~$ git config --global core.autocrlf input  
rishard@Ubuntu:~$ git config --global core.safecrlf warn  
rishard@Ubuntu:~$  
rishard@Ubuntu:~$
```

Рис. 2.6: Параметры git

Для авторизации нужно сгенерировать ssh ключ и добавить его в аккаунт.

```
rishard@Ubuntu:~$  
rishard@Ubuntu:~$ ssh-keygen -C "RishardKogengar 1032239631@pfur.ru"  
Generating public/private rsa key pair.  
  
Enter file in which to save the key (/home/rishard/.ssh/id_rsa): Created directory '/home/rishard/.ssh'.  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /home/rishard/.ssh/id_rsa  
Your public key has been saved in /home/rishard/.ssh/id_rsa.pub  
The key fingerprint is:  
SHA256:2hJBNmjKY9ZfrIw1n7C+0S5GjzSC2ZUIVwpg2GHqUMc RishardKogengar 1032239631@pfur.ru  
The key's randomart image is:  
+---[RSA 3072]-----+  
|o+=o.o.=|  
|o+ooE+ .|  
|o. *...o|  
|o * o * .o|  
|+ = *.BS.|  
| o + O=o|  
| ++o|  
| =+.|  
|..o.|  
+---[SHA256]-----+  
rishard@Ubuntu:~$  
rishard@Ubuntu:~$
```

Рис. 2.7: ssh ключ

И добавляю ключ в профиль на гитхабе

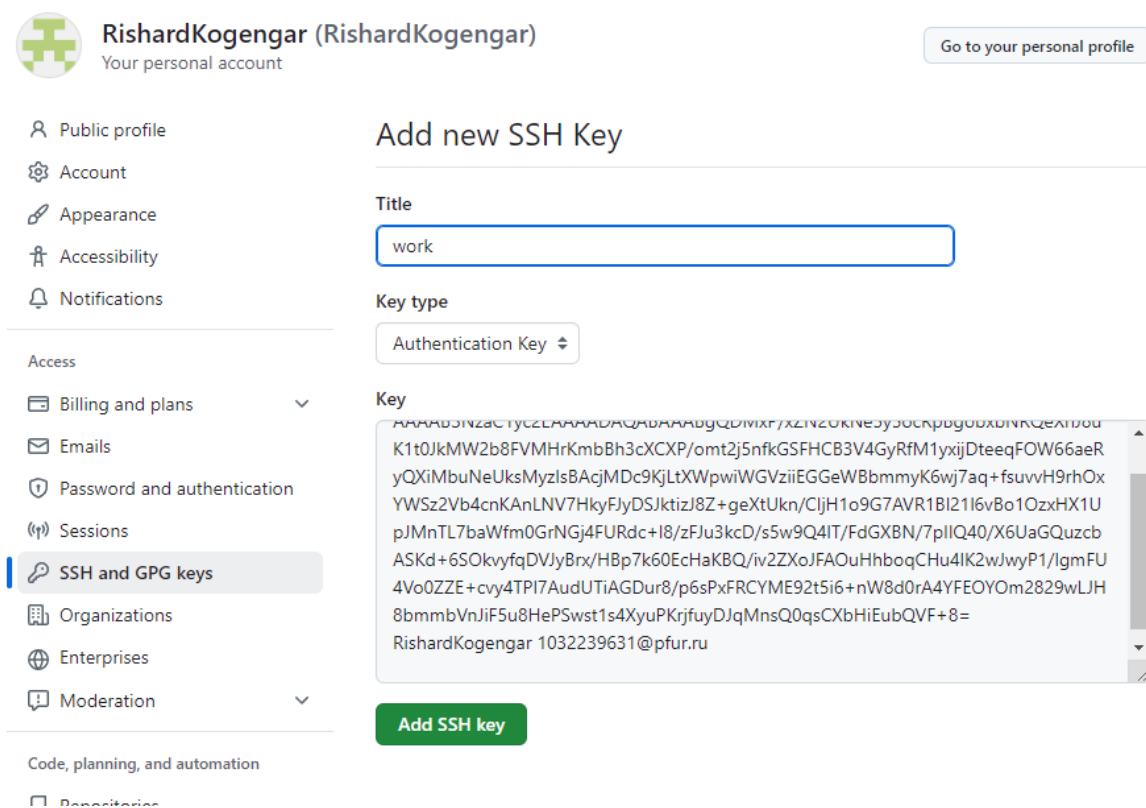


Рис. 2.8: Добавляю ключ

Далее создадим папку и клонируем туда репозиторий

```
rishard@Ubuntu:~/work/study/2024-2025/Архитектура компьютера$ git clone --recursive git@github.com:RishardKogengar/arch-pc.git
Cloning into 'arch-pc'...

The authenticity of host 'github.com (140.82.121.3)' can't be established.
ECDSA key fingerprint is SHA256:p2QAMXNIC1TJYWeIOtrVc98/R1BUFWu3/LiyKgUfQM.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,140.82.121.3' (ECDSA) 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), 18.82 KiB | 428.00 KiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yamadharm/academic-presentation-markdown-template.git)
  registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yamadharm/academic-laboratory-report-template.git) registered
  for path 'template/report'
Cloning into '/home/rishard/work/study/2024-2025/Архитектура компьютера/arch-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 | 1.55 MiB/s, done.
Resolving deltas: 100% (42/42), done.
Cloning into '/home/rishard/work/study/2024-2025/Архитектура компьютера/arch-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 | 1.91 MiB/s, done.
Resolving deltas: 100% (60/60), done.
Submodule path 'template/presentation': checked out 'c9b2712b4b2d431ad5086c9c72a02bd2fca1d4a6'
Submodule path 'template/report': checked out 'c26e22effe7b3e0495707d82ef561ab185f5c748'
rishard@Ubuntu:~/work/study/2024-2025/Архитектура компьютера$
```

Рис. 2.9: Создание рабочего каталога

Репозиторий содержит Make скрипт для создания папок курса. Выполним его, создадутся папки для лабораторных.

```
rishard@Ubuntu:~/work/study/2024-2025/Архитектура компьютера$
rishard@Ubuntu:~/work/study/2024-2025/Архитектура компьютера$ cd ~/work/study/2024-2025/"Архитектура компьюте
pa"/arch-pc
rishard@Ubuntu:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ rm package.json
rishard@Ubuntu:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ echo arch-pc > COURSE
rishard@Ubuntu:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ make prepare
rishard@Ubuntu:~/work/study/2024-2025/Архитектура компьютера/arch-pc$
```

Рис. 2.10: Создание структуры курса

Теперь эти папки можно отправить в сетевой репозиторий.

```

create mode 100644 presentation/report/bib/cite.bib
create mode 100644 presentation/report/image/placeholder_800_600_tech.jpg
create mode 100644 presentation/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 presentation/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_fignos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_secnos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/core.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/main.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 presentation/report/report.md
rishard@Ubuntu:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ git push
Warning: Permanently added the ECDSA host key for IP address '140.82.121.4' to the list of known hosts.
Enumerating objects: 37, done.
Counting objects: 100% (37/37), done.
Delta compression using up to 6 threads
Compressing objects: 100% (29/29), done.
Writing objects: 100% (35/35), 341.27 KiB | 2.80 MiB/s, done.
Total 35 (delta 4), reused 0 (delta 0)
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To github.com:RishardKogengar/arch-pc.git
   8b0e8a7..83187c2  master -> master
rishard@Ubuntu:~/work/study/2024-2025/Архитектура компьютера/arch-pc$

```

Рис. 2.11: Загрузка файлов

3 Выводы

В ходе выполнения работы изучили работу с GitHub.