

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-03-24

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

Сначала настраиваю Git на своем компьютере. Создаю пользователя в системе Git и указываю параметры — имя и email, чтобы мои действия были правильно подписаны.

```
amirrasoly@Ubuntu-VirtualBox:~$  
amirrasoly@Ubuntu-VirtualBox:~$ git config --global user.name "amirrasuli990"  
amirrasoly@Ubuntu-VirtualBox:~$ git config --global user.email "1032235165@pfur.ru"  
amirrasoly@Ubuntu-VirtualBox:~$ git config --global core.quotepath false  
amirrasoly@Ubuntu-VirtualBox:~$ git config --global init.defaultBranch master  
amirrasoly@Ubuntu-VirtualBox:~$ git config --global core.autocrlf input  
amirrasoly@Ubuntu-VirtualBox:~$ git config --global core.safecrlf warn  
amirrasoly@Ubuntu-VirtualBox:~$
```

Генерирую SSH-ключи, которые нужны для идентификации на GitHub. Сохраняю их на компьютере и добавляю публичный ключ в свой профиль на GitHub для установления связи.

```
amirrasoly@Ubuntu-VirtualBox:~$ git config --global core.safecrlf warn  
amirrasoly@Ubuntu-VirtualBox:~$ ssh-keygen -C "amirrasuli990 1032235165@pfur.ru"  
Generating public/private rsa key pair.  
  
Enter file in which to save the key (/home/amirrasoly/.ssh/id_rsa): Created directory '/home/amirrasoly/.ssh'.  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /home/amirrasoly/.ssh/id_rsa  
Your public key has been saved in /home/amirrasoly/.ssh/id_rsa.pub  
The key fingerprint is:  
SHA256:tDMArXeS0LwJha0njic38neDG++wJCD1vqFvyznsTba amirrasuli990 1032235165@pfur.ru  
The key's randomart image is:  
+---[RSA 3072]-----+  
| .B. |  
| +.= |  
| . =.+ |  
|o...+ Bo.. |  
|+o +o+ oS |  
|o.o..o o |  
| o..E.. |  
| .=*@o |  
| .X*+. |  
+----[SHA256]-----+  
amirrasoly@Ubuntu-VirtualBox:~$
```



amirrasuli990 (amirrasuli990)
Your personal account

[Go to your personal profile](#)

- Public profile
- Account
- Appearance
- Accessibility
- Notifications

Access

- Billing and plans
- Emails
- Password and authentication
- Sessions
- SSH and GPG keys**
- Organizations
- Enterprises
- Moderation

Code, planning, and automation

Add new SSH Key

Title

key

Key type

Authentication Key

Key

```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQGD8BkPpZG7qGozf1+j4UWVMVM3JeOQXAgVGM+iaOTushTT2rqMIOIBN92OhpbfiUnzqE+wr14hFKpIDw
QE/YFO8pW4dSnfnPDkYwGOpbTUY2dFIMM8t3o5Lu9bhiYwizeavFeO+guoNSXmxgH3Bi7qKTOqsw8eRNPmtafJQ2Qmx6arNcmYqA5iKfhpEDKp/B
OoWw9YWzkd3CSgNIAE3i1bj4IHsTOIGtos8Du9w3migfWZ7tqVqCJLUWSeu92SumRevUsR2+mfbNgXuzM3vUKM4Q3+45kVegHOTUKC94A2qhYO
/i6Ac57By5tmnlEhJla+hWU+6/cUNH2tXl0sP+7feGlgV3PrKBAHX8ZeKoNt8ThTUpm/4/kdRQ8XX0h+c17+SE/HokMGpavtWWYa3JYA1pSzBn8YPEG1
uk9HmxiSvwwviM3oEAo+JzFsLR0dLg8xS8xle7RawYf9gAp0uYqiABmm+SNfb/IARuauei6ISF3REMPR+v8GbPvZuZu= amirrasuli990
1032235165@pfur.ru
```

Add SSH key

Нахожу нужный репозиторий-шаблон и делаю из него копию для работы.

course-directory-student-template Public template

Watch 3

Fork 29

Star 5

Use this template

master

2 Branches 10 Tags

Go to file

Add file

Code

About

yamadharma	Merge branch 'release/1.0.9'	8aa7fcb · 2 months ago	59 Commits
config	feat(course): add os2	2 months ago	
template	chore(main): update submodules	2 months ago	
.gitattributes	Initial commit	2 years ago	
.gitignore	Initial commit	2 years ago	
.gitmodules	chore(main): add conventional changelog support	2 years ago	
CHANGELOG.md	chore(main): update changelog	2 months ago	
COURSE	feat(script): add script for auto-determine name of course	2 years ago	
LICENSE	Initial commit	2 years ago	
Makefile	fix(make): update defaults	8 months ago	

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

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


 yamadharma/course-directory-student-template ▾

Start your repository with a template repository's contents.

☐ Include all branches

Copy all branches from yamadharma/course-directory-student-template and not just the default branch.

Owner *

 amirrasuli990 ▾

Repository name *

/ arch-pc

✓ arch-pc is available.

Great repository names are short and memorable. Need inspiration? How about [laughing-chainsaw](#) ?

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

Создаю рабочую директорию на своем компьютере для хранения файлов проекта. Клонировать репозиторий с GitHub в эту директорию, чтобы работать с файлами локально.

```
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/amirrasoly/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 | 1.00 MiB/s, done.
Resolving deltas: 100% (42/42), done.
Cloning into '/home/amirrasoly/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 | 2.30 MiB/s, done.
Resolving deltas: 100% (60/60), done.
Submodule path 'template/presentation': checked out 'c9b2712b4b2d431ad5086c9c72a02bd2fca1d4a6'
Submodule path 'template/report': checked out 'c26e22effe7b3e0495707d82ef561ab185f5c748'
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера$
```

```
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера$
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера$ cd ~/work/study/2024-2025/Архитектура компьютера/arch-pc
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ rm package.json
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ echo arch-pc > COURSE
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ ls
CHANGELOG.md  config  COURSE  LICENSE  Makefile  prepare  presentation  README.en.md  README.git-flow.md  README.md  template
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ make prepare
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ ls
CHANGELOG.md  config  COURSE  labs  LICENSE  Makefile  prepare  presentation  README.en.md  README.git-flow.md  README.md  template
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$
```

После подготовки структуры добавляю изменения в локальный репозиторий и отправляю их на GitHub командой push.

```
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
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ git push
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 | 2.55 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:amirrasuli990/arch-pc.git
   bfdd73d..3b4ca3c  master -> master
amirrasoly@Ubuntu-VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$
```

Загружаю отчёты по выполненным работам в соответствующие папки на GitHub, обновляя репозиторий по мере необходимости.

arch-pc / labs / lab01 / report /

amirrasuli990 add lab01 cf798c0 · now History

Name	Last commit message	Last commit date
..		
bib	feat(main): make course structure	3 minutes ago
image	feat(main): make course structure	3 minutes ago
pandoc	feat(main): make course structure	3 minutes ago
Makefile	feat(main): make course structure	3 minutes ago
report.md	feat(main): make course structure	3 minutes ago
Амир Расули 1 отчет.pdf	add lab01	now

Вывод:

В ходе выполнения работы изучили работу с GitHub.