

Отчёт по лабораторной работе 2

Архитектура компьютера

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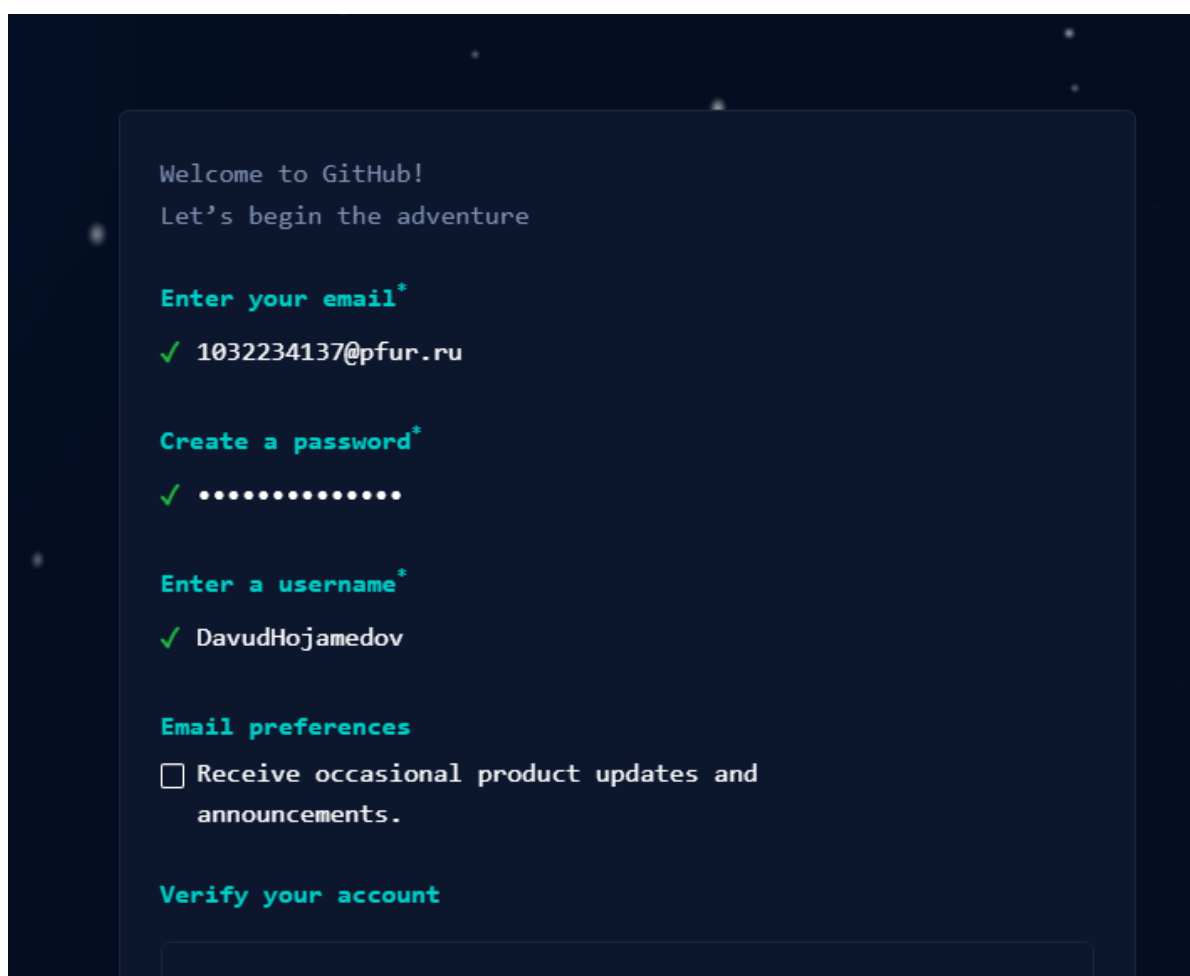
Список таблиц

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.

The image shows a screenshot of the GitHub registration interface. It has a dark blue background with a lighter blue rectangular box in the center containing the form. The text is in a light blue, monospaced font. The form includes a welcome message, followed by three required fields: 'Enter your email*', 'Create a password*', and 'Enter a username*', each with a green checkmark and a green asterisk. The email field contains '1032234137@pfur.ru', the password field contains ten dots, and the username field contains 'DavudHojamedov'. Below these is the 'Email preferences' section with an unchecked checkbox and the text 'Receive occasional product updates and announcements.'. At the bottom is a 'Verify your account' link and a large, empty input field.

Welcome to GitHub!
Let's begin the adventure

Enter your email*

✓ 1032234137@pfur.ru

Create a password*

✓

Enter a username*

✓ DavudHojamedov

Email preferences

☐ Receive occasional product updates and announcements.

Verify your account

Рис. 2.1: Регистрация профиля

Нахожу шаблонный репозиторий и создаю из него свой.

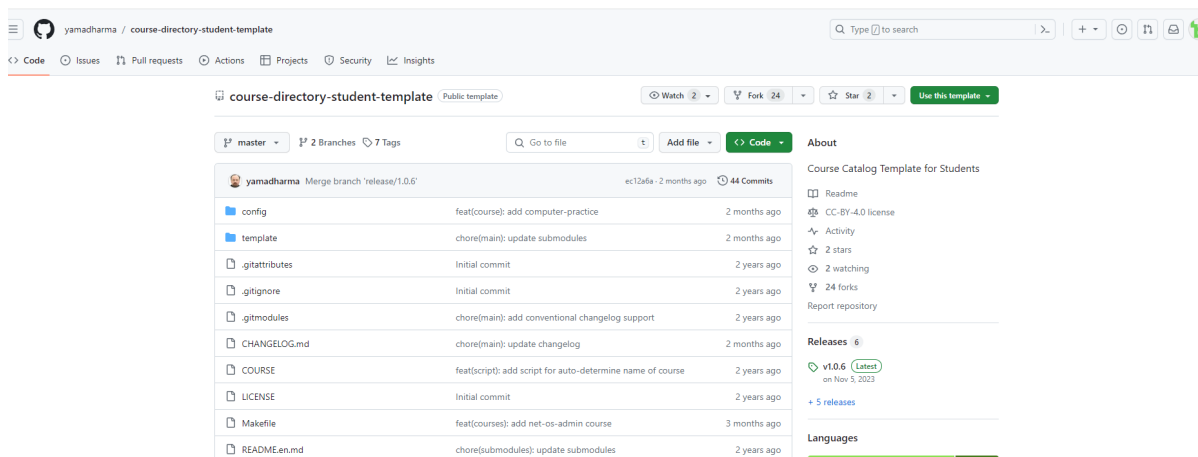


Рис. 2.2: Шаблон репозитория

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 (*).

Owner *

DavudHojamedov

Repository name *

/ arch-pd

✓ arch-pc is available.

Great repository names are short and memorable. Need inspiration? How about [super-duper-journey](#) ?

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. 2.3: Использование шаблона

Установил программу гит

```
davudhojamedov@ubuntu: ~  
davudhojamedov@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  
  rebase     Reapply commits on top of another base tip  
  reset      Reset current HEAD to the specified state  
  switch     Switch branches  
  tag        Create, list, delete or verify a tag object signed with GPG
```

Рис. 2.4: Команда git

Сначала сделаем предварительную конфигурацию git, создаю пользователя и ставлю параметры.

```
davudhojamedov@ubuntu:~$  
davudhojamedov@ubuntu:~$ git config --global user.name "DavudHojamedov"  
davudhojamedov@ubuntu:~$ git config --global user.email "1032234137@pfur.ru"  
davudhojamedov@ubuntu:~$ git config --global core.quotepath false  
davudhojamedov@ubuntu:~$ git config --global init.defaultBranch master  
davudhojamedov@ubuntu:~$ git config --global core.autocrlf input  
davudhojamedov@ubuntu:~$ git config --global core.safecrlf warn  
davudhojamedov@ubuntu:~$
```

Рис. 2.5: Параметры git

Далее создаю ключи для идентификации.



```

davudhojamedov@ubuntu:~$ ssh-keygen -C "DavudHojamedov 1032234137@pfur.ru"
Generating public/private rsa key pair.
Enter file in which to save the key (/home/davudhojamedov/.ssh/id_rsa):
/home/davudhojamedov/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/davudhojamedov/.ssh/id_rsa
Your public key has been saved in /home/davudhojamedov/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:8YL/QkWYqgiqXwflANP2zYwf0XHtZJx2Awum8RbijUo DavudHojamedov 1032234137@pfur.ru
The key's randomart image is:
+---[RSA 3072]-----+
|  o.      *.=.+. . |
|   oo     = @.o 0.. |
|    ....E.* + * .. |
| .      +=.*oo  .  |
|.. ...ooSo.        |
| . . . . .o.       |
| . . . . .         |
| . . . . .         |
| . . . . .         |
| ..        ..      |
+-----[SHA256]-----+
davudhojamedov@ubuntu:~$ █

```

Рис. 2.6: ssh ключ

И добавляю ключ в профиль на гитхабе



DavudHojamedov (DavudHojamedov)

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

lab

Key type

Authentication Key

Key

AAAA03vzaCTyc2LAAAA0AQAAAA0gQDa300smitsZFa/333KtaZtCV71Xb3Xnry8vduw
wQfeEeLqlmnjPSuLky+woK7uW6mCjMNyoKN7p2VGAqMqqvDdiDzt9SzcRhBGkrB1bpT3
4hoERjO3z9Ci33b0y87nJA87L6TzXaHXEOQFwV0B1P0Deyo3O1ZDJSaMZ4e9YGhvfE3HIJJ
ExFSA3R9h0XInFddEW1fc+1afyRMds6eJgB2kOHgpM/AWpKTqMoNRVy+aAi153pjY94Bo
4ckTsqVGVuh003LfNTChJqUrf0w55RwQ9ml4bE8wPRweRAdnXHu2Z4CuEiSblsiraPEzEcrzE
8QjGjV6N5Cq3nnA+GRCJJFhn/Pom1UO8PZpzQP5rHlnYT4nwHArTEZqX/KZHZyJIHJvgoSI
RML1gC1XsnR8IkM3n512IARIUU69TUro+jUjLplyeYTL6Nuhr7OQ4ndrAzvkKZbdcmtjMY
+0MlsBgZwc+Re3/vm3Ari1O7RatIMlh2bb0VKoUGy5TjiO1r0= DavudHojamedov
1032234137@pfur.ru

Add SSH key

Рис. 2.7: Добавляю ключ

Теперь я создаю рабочий каталог и клонирую туда репозиторий с гитхаба.

```

davudhojamedov@ubuntu:~$
davudhojamedov@ubuntu:~$ mkdir -p ~/work/study/2023-2024/"Архитектура компьютера"
davudhojamedov@ubuntu:~$ cd ~/work/study/2023-2024/"Архитектура компьютера"
davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера$ git clone --recursive git@github.com:DavudHojamedov/arch-pc.git
Cloning into 'arch-pc'...
The authenticity of host 'github.com (140.82.121.4)' can't be established.
ECDSA key fingerprint is SHA256:p2QAMXNIC1TJYWeIOttrVc98/R1BUFWu3/LiyKgUfQM.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,140.82.121.4' (ECDSA) to the list of known hosts.
remote: Enumerating objects: 30, done.
remote: Counting objects: 100% (30/30), done.
remote: Compressing objects: 100% (29/29), done.
remote: Total 30 (delta 1), reused 17 (delta 0), pack-reused 0
Receiving objects: 100% (30/30), 17.76 KiB | 2.54 MiB/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/davudhojamedov/work/study/2023-2024/Архитектура компьютера/arch-pc/template/presentation'...
remote: Enumerating objects: 95, done.
remote: Counting objects: 100% (95/95), done.
remote: Compressing objects: 100% (67/67), done.
remote: Total 95 (delta 34), reused 87 (delta 26), pack-reused 0
Cloning into '/home/davudhojamedov/work/study/2023-2024/Архитектура компьютера/arch-pc/template/report'...
remote: Enumerating objects: 112, done.

```

Рис. 2.8: Создание рабочего каталога

Создаю курс

```

davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера$
davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера$ cd ~/work/study/2023-2024/"Архитектура компьютера"/arch-pc
davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ rm package.json
davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ echo arch-pc > COURSE
davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ make
davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера/arch-pc$

```

Рис. 2.9: Создаю курс

Отправляю в гитхаб

```

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
davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ git push
Warning: Permanently added the ECDSA host key for IP address '140.82.121.3' to the list of known ho
sts.
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), 342.14 KiB | 3.49 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:DavudHojamedov/arch-pc.git
bbad186..9db08c6 master -> master
davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера/arch-pc$

```

Рис. 2.10: Загрузка файлов

Вот что получилось

The screenshot shows the GitHub interface for a public repository named 'arch-pc'. The repository was generated from 'yamadharma/course-directory-student-template'. It has 1 branch (master) and 0 tags. The file list shows a directory structure with folders like 'config', 'labs', 'presentation', and 'template', and files like '.gitattributes', '.gitignore', '.gitmodules', 'CHANGELOG.md', and 'COURSE'. The commit history shows a single commit by 'belalexy' with the message 'feat(main): make course structure'.

File	Commit	Time
config	Initial commit	4 minutes ago
labs	feat(main): make course structure	now
presentation	feat(main): make course structure	now
template	Initial commit	4 minutes ago
.gitattributes	Initial commit	4 minutes ago
.gitignore	Initial commit	4 minutes ago
.gitmodules	Initial commit	4 minutes ago
CHANGELOG.md	Initial commit	4 minutes ago
COURSE	feat(main): make course structure	now

Рис. 2.11: Репозиторий

Загружаю отчет на гитхаб.

```

delete mode 100644 labs/lab11/report/chose/placing_000_000_000_000_000_000.jpg
delete mode 100644 labs/lab11/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
delete mode 100755 labs/lab11/report/pandoc/filters/pandoc_eqnos.py
delete mode 100755 labs/lab11/report/pandoc/filters/pandoc_fignos.py
delete mode 100755 labs/lab11/report/pandoc/filters/pandoc_secnos.py
delete mode 100755 labs/lab11/report/pandoc/filters/pandoc_tablenos.py
delete mode 100644 labs/lab11/report/pandoc/filters/pandocxnos/__init__.py
delete mode 100644 labs/lab11/report/pandoc/filters/pandocxnos/core.py
delete mode 100644 labs/lab11/report/pandoc/filters/pandocxnos/main.py
delete mode 100644 labs/lab11/report/pandoc/filters/pandocxnos/pandocattributes.py
delete mode 100644 labs/lab11/report/report.md
davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ git push
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 6 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 1.21 MiB | 8.87 MiB/s, done.
Total 7 (delta 3), reused 0 (delta 0)
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To github.com:DavudHojamedov/arch-pc.git
   e28c4ee..268d3ac  master -> master
davudhojamedov@ubuntu:~/work/study/2023-2024/Архитектура компьютера/arch-pc$

```

Рис. 2.12: Загрузка файлов

3 Выводы

В ходе выполнения работы изучили работу с GitHub.