

Отчёт по лабораторной работе 2

Архитектура компьютеров

Хиджази Мохамад

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1 Цель работы

Изучить идеологию и научиться применять средства контроля версий.
Получить практические навыки по работе с системой git.

2 Ход работы

Чтобы начать работать с GitHub (далее — гитхаб) нужно зарегистрироваться (рис. 2.1)

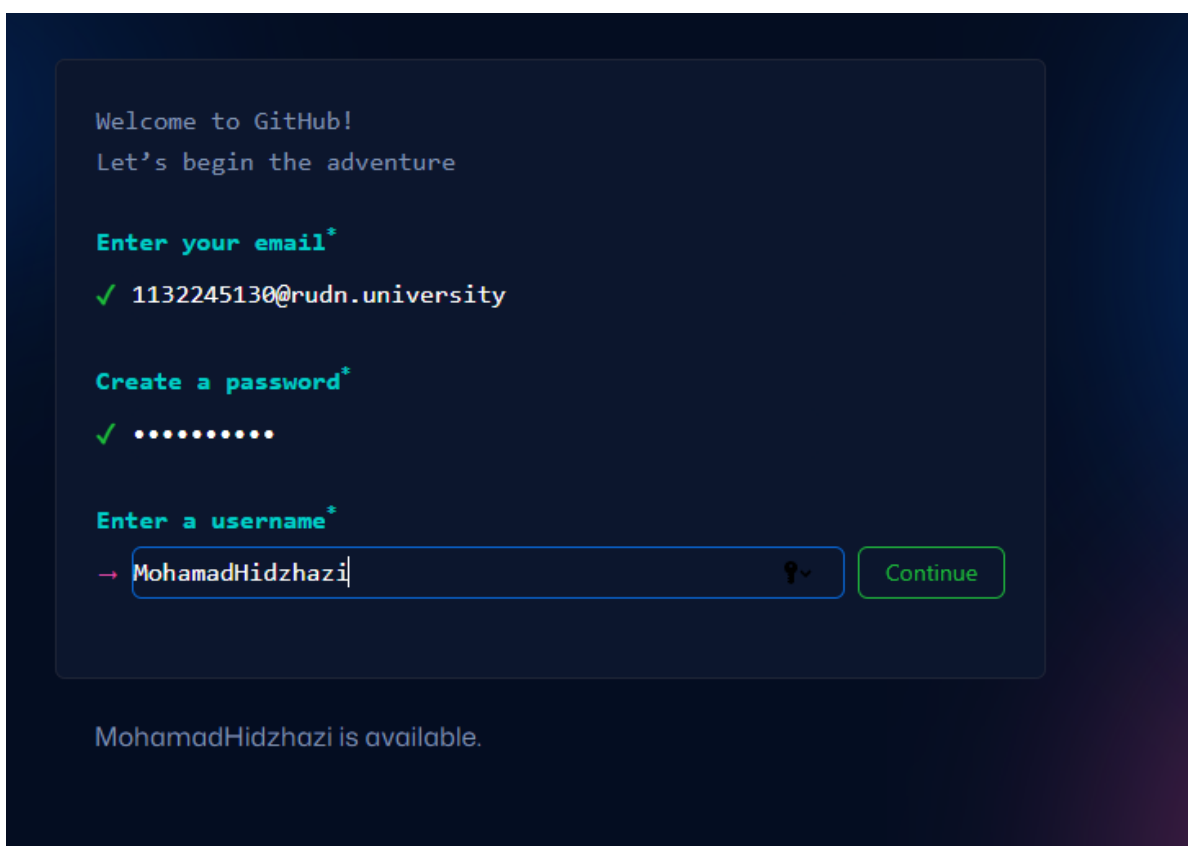
The image shows the GitHub registration interface. It has a dark blue background. A central white box contains the registration form. At the top, it says "Welcome to GitHub!" and "Let's begin the adventure". Below this, there are three input fields. The first is labeled "Enter your email*" and contains the text "1132245130@rudn.university" with a green checkmark to its left. The second is labeled "Create a password*" and contains a series of dots with a green checkmark to its left. The third is labeled "Enter a username*" and contains the text "MohamadHidzhazi" with a green checkmark to its left. To the right of the username input is a green button labeled "Continue". Below the input fields, it says "MohamadHidzhazi is available."

Рис. 2.1: Данные для регистрации аккаунта на Гитхабе

Далее я нахожу на Гитхабе шаблонный репозиторий и создаю свой (рис. 2.2, рис. 2.3)

course-directory-stu...
Public template
Watch 3
Fork 29
Star 5
Use this template

master
Go to file
Code
About

yamadharma 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

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. 2.2: Создание своего репозитория на основании шаблона

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 *

 MohamadHidzhazi ▾

Repository name *

/ arch-pd

✓ arch-pc is available.

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

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: Создание репозитория

Делаю предварительную настройку git (рис. 2.4)

```
mohamadhidzhazi@mohamad:~$ git config --global user.name "MohamadHidzhazi"
mohamadhidzhazi@mohamad:~$ git config --global user.email "1132245130@pfur.ru"
mohamadhidzhazi@mohamad:~$ git config --global core.quotePath false
mohamadhidzhazi@mohamad:~$ git config --global init.defaultBranch master
mohamadhidzhazi@mohamad:~$ git config --global core.autocrlf input
mohamadhidzhazi@mohamad:~$ git config --global core.safecrlf warn
mohamadhidzhazi@mohamad:~$
```

Рис. 2.4: Выполнение команд для предварительной настройки Гитхаб

Для последующей работы необходимо сгенерировать пару ключей

идентификации (рис. 2.5)

```
mohamadhidzhazi@mohamad:~$ ssh-keygen -C "MohamadHidzhazi 1132245130@pfur.ru"

Generating public/private rsa key pair.
Enter file in which to save the key (/home/mohamadhidzhazi/.ssh/id_rsa): Created directory '/home/mohamadhidzhazi/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/mohamadhidzhazi/.ssh/id_rsa
Your public key has been saved in /home/mohamadhidzhazi/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:IeK880Q1zAvfgXcRoneDfXCum6xuLzPKkoqXqCYq7kY MohamadHidzhazi 1132245130@pfur.ru
The key's randomart image is:
+---[RSA 3072]-----+
|      . o .      |
|      . + =      |
|    . o + = o    |
|    o + + o =    |
|    . = * S o    |
|  E = = = + o    |
|.. .+.o . +     |
|++o o. =.       |
|&+.. .o+o=.     |
+---[SHA256]-----+
mohamadhidzhazi@mohamad:~$
```

Рис. 2.5: Выполнение команд для создания SSH ключа

Теперь необходимо добавить свой ключ на Гитхаб по названию «Title» (рис. 2.6)

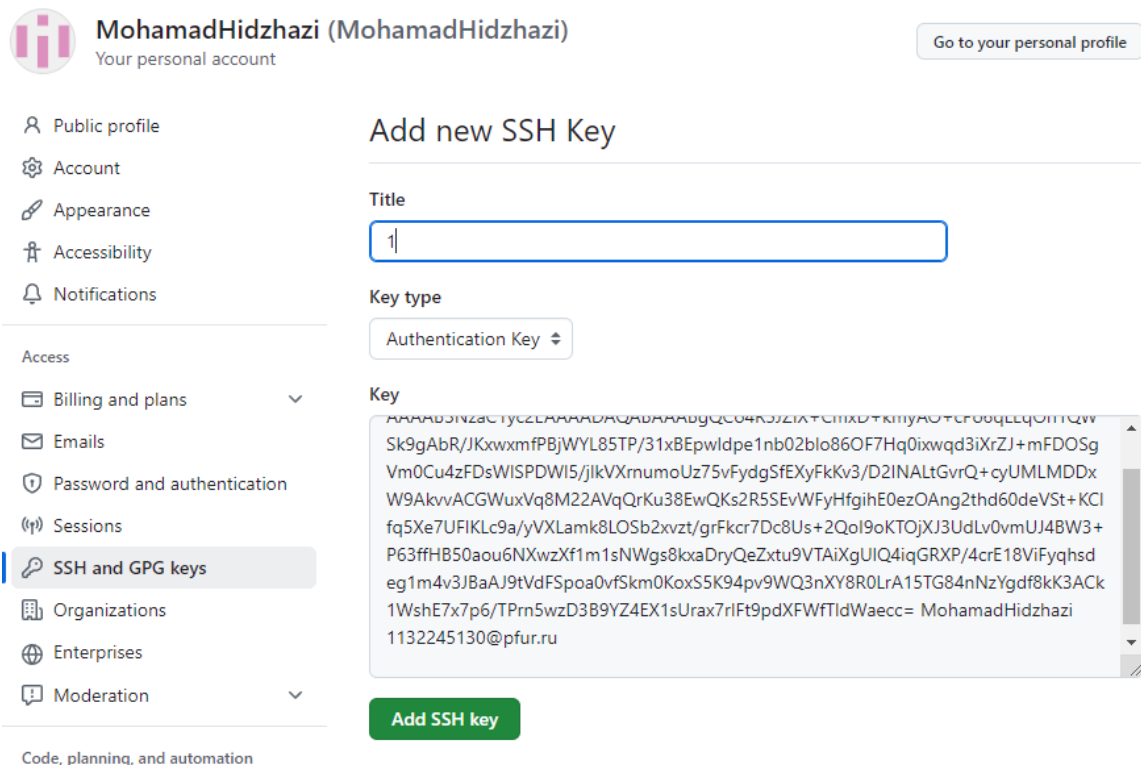


Рис. 2.6: Добавление своего ключа на Гитхаб

Далее необходимо создать рабочий каталог (рис. 2.7)

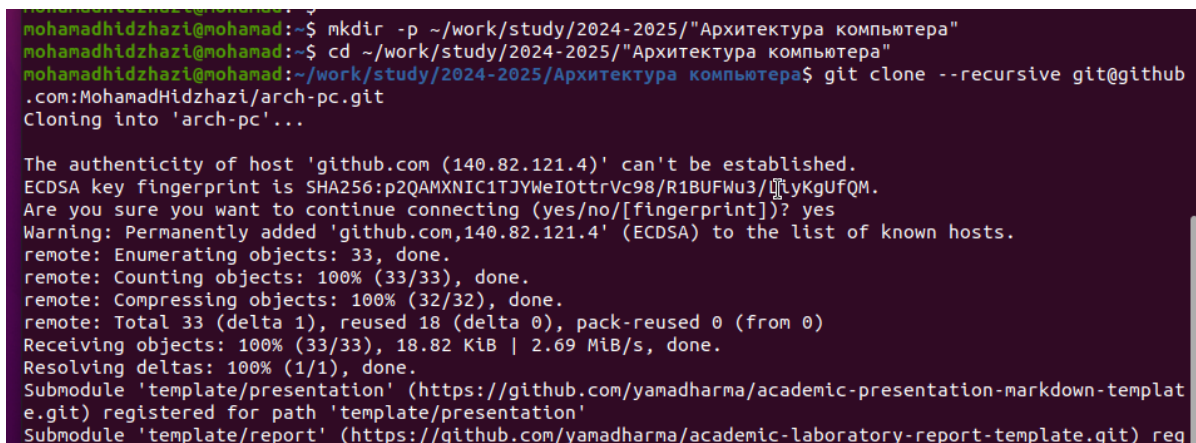


Рис. 2.7: Создание рабочего каталога

Теперь я создаю курс (рис. 2.8)

```

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 | 2.16 MiB/s, done.
Resolving deltas: 100% (60/60), done.
Submodule path 'template/presentation': checked out 'c9b2712b4b2d431ad5086c9c72a02bd2fca1d4a6'
Submodule path 'template/report': checked out 'c26e22effe7b3e0495707d82ef561ab185f5c748'
mohamadhidzhazi@mohamad: ~/work/study/2024-2025/Архитектура компьютера$
mohamadhidzhazi@mohamad: ~/work/study/2024-2025/Архитектура компьютера$
mohamadhidzhazi@mohamad: ~/work/study/2024-2025/Архитектура компьютера$ cd ~/work/study/2024-2025/"Архитектура компьютера"/arch-pc
mohamadhidzhazi@mohamad: ~/work/study/2024-2025/Архитектура компьютера/arch-pc$ rm package.json
mohamadhidzhazi@mohamad: ~/work/study/2024-2025/Архитектура компьютера/arch-pc$ echo arch-pc > COURSE
mohamadhidzhazi@mohamad: ~/work/study/2024-2025/Архитектура компьютера/arch-pc$ make prepare
mohamadhidzhazi@mohamad: ~/work/study/2024-2025/Архитектура компьютера/arch-pc$

```

Рис. 2.8: Создание курса

Далее нужно отправить эти данные на Гитхаб (рис. 2.9, рис. 2.10, рис. 2.11)

```

mohamadhidzhazi@mohamad: ~/work/study/2024-2025/Архитектура компьютера/arch-pc$
mohamadhidzhazi@mohamad: ~/work/study/2024-2025/Архитектура компьютера/arch-pc$ git add .
mohamadhidzhazi@mohamad: ~/work/study/2024-2025/Архитектура компьютера/arch-pc$ git commit -am 'feat(main): make course structure'
[master 20a3ef0] feat(main): make course structure
223 files changed, 53681 insertions(+), 14 deletions(-)
create mode 100644 labs/README.md
create mode 100644 labs/README.ru.md
create mode 100644 labs/lab01/presentation/.projectile
create mode 100644 labs/lab01/presentation/.texlabroot
create mode 100644 labs/lab01/presentation/Makefile
create mode 100644 labs/lab01/presentation/image/kulyabov.jpg
create mode 100644 labs/lab01/presentation/presentation.md
create mode 100644 labs/lab01/report/Makefile
create mode 100644 labs/lab01/report/bib/cite.bib
create mode 100644 labs/lab01/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab01/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 labs/lab01/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 labs/lab01/report/pandoc/filters/pandoc_fignos.py
create mode 100755 labs/lab01/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab01/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab01/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab01/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab01/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab01/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 labs/lab01/report/report.md

```

Рис. 2.9: Отправка данных на Гитхаб ч.1

```
create mode 100644 presentation/presentation/presentation.md
create mode 100644 presentation/report/Makefile
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
mohamadhidzhazi@mohamad:~/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), 341.28 KiB | 3.19 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:MohamadHidzhazi/arch-pc.git
 69838ee..20a3ef0 master -> master
mohamadhidzhazi@mohamad:~/work/study/2024-2025/Архитектура компьютера/arch-pc$
```

Рис. 2.10: Отправка данных на Гитхаб ч.2

MohamadHidzhazi / arch-pc

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

arch-pc

Public

Pin

Unwatch 1

Fork 0

Star 0

generated from [yamadharm/course-directory-student-template](#)

master

Go to file

+<> Code

About

MohamadHidzhazi

feat(main): make course structure

20a3ef0 · now

config	Initial commit	3 minutes ago
labs	feat(main): make course structure	now
presentation	feat(main): make course structure	now
template	Initial commit	3 minutes ago
.gitattributes	Initial commit	3 minutes ago
.gitignore	Initial commit	3 minutes ago
.gitmodules	Initial commit	3 minutes ago
CHANGELOG.md	Initial commit	3 minutes ago
COURSE	feat(main): make course structure	now
LICENSE	Initial commit	3 minutes ago

No description, website, or topics provided.

Readme

CC-BY-4.0 license

Activity

0 stars

1 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Рис. 2.11: Результат проделанной работы

3 Выводы

Я получил навыки по работе с системой контроля версий GitHub.