Лабораторная работа 1

Ашуров Азимжон НФИбд-01-19 24 мая, 2022, Москва, Россия

Российский Университет Дружбы Народов

Цели и задачи работы

Цель лабораторной работы

Целью данной работы является изучение идеологии и применения средств контроля версий.

Задачи лабораторной работы

- 1. Создать учетную запись на github.com
- 2. Настроить репозиторий
- 3. Изучить механизм управления версиями

лабораторной работы

Процесс выполнения

Создаем учетную запись на github.com и репозиторий

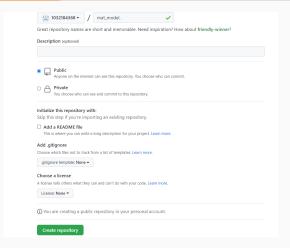


Figure 1: Создание репозитория

Инициализируем локальный репозиторий

```
| Windows PowerShell | PowerSh
```

Figure 2: Инициализация репозитория

Создаем SSH-ключ

```
Mindows PowerShell
 S C:\Users\ASUS\Documents\MatMod> git add README.md
PS C:\Users\ASUS\Documents\MatMod> git config --global user.name AshurovAzimjon
PS C:\Users\ASUS\Documents\MatMod> git config --global user.email
PS C:\Users\ASUS\Documents\MatMod> git commit -m "first
[master (root-commit) e0982c1] first commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README.md
 S C:\Users\ASUS\Documents\MatMod> ssh-keygen -C "AshurovAzimjon 1032184368@pfur.ru"
 enerating public/private rsa key pair
Enter file in which to save the key (C:\Users\ASUS/.ssh/id_rsa):
 :\Users\ASUS/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Passohrases do not match. Try again.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\ASUS/.ssh/id rsa.
Your public key has been saved in C:\Users\ASUS/.ssh/id rsa.pub.
The key fingerprint is:
SHA256;ubzaEKEX8VF0VXt1ngWJMuBKOTyzEFSJ8Uk1saHT+F8 AshurovAzimion 1032184368@ofur.ru
The key's randomart image is:
 ---[RSA 3072]----+
     + . . .
 C:\Users\ASUS\Documents\MatMod> cat ~/.ssh/id_rsa.pub
 sh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQC7dH1P1GKz1fXy2ABH9JXYWQM2PxH6oyU2awVR+1XPRaXfCaEoO51qP7108Hs61yG0UwA5420u1MtLOFh
wZmUDAJTY13YaBI39cASYiyt61H9/Eb]yxpW6JjpO9c7z1FtiNMQexcYCqK7Gb5KpziD7+oHDdYT2t29QqiW4TTLFJgnXAGXYsf5cdYmh5Ijb29f0nGe5i
JaP1/8j66YI2V06AdiBjTp3zsJ9B2bfeOTq7g87dtIn2tqMvRYDv5Kiok5oFQX6EUXv2ikaKAlqiyOYw3XdNKXrm5wR8PkwGxPO0fFBC37/9/StXjySa+Wc
I209kgevA6+213+gK7ieHD1Mx634HeGTYVLR+/cZUKmK25zsPndK73eq09bwMkFuRuMK8DADCwXAidDeOSddBKdRf8qtDW55iwgM17d0D4Cq6Xk05100v/6
fERmLRBMapyZ9706pCPDu063er/rQUIY3FwJarEQXf7aUBaGVQ1wGWeW/L3Jmk20x/JhfE0= AshurovAzimion 1032184368@pfur.ru
PS C:\Users\ASUS\Documents\MatMod>
```

Figure 3: Создание SSH-ключа

Создаем SSH-ключ

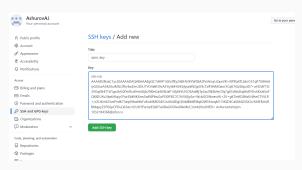


Figure 4: Добавление ключа на github.com

Загружаем служебные файлы

```
of C. Liber's Miser's Mocuments MatMond git remote add origin gitsgithub.com: IslanderAbdallae/MatMond.git remote add origin gitsgithub.com: IslanderAbdallae/MatMond.git. and the second content of t
```

Figure 5: Загрузка файлов лицензии и gitignore

Использование системы управления версиями

```
S C:\Users\User\Documents\MatMod> git flow init
 Which branch should be used for bringing forth production releases?
 Branch name for production releases: [master]
 Branch name for "next release" development: [develop]
 How to name your supporting branch prefixes?
 eature branches? [feature/]
Feature branches? [reature/]
Reflexe branches? [release/]
Hoffix branches? [notfix/]
Support branches? [support/]
Hoffix branches? [support/]
Hoffix and filters directory? [C:/Users/User/Documents/MatMod/.git/hooks]
PS C:\UserS\User\Documents\MatMod-git branch
 PS C:\Users\User\Documents\MatMod> git flow release start 1.0.0
Switched to a new branch 'release/1.0.0'
 Summary of actions:
  A new branch 'release/1.0.0' was created, based on 'develop'
You are now on branch 'release/1.0.0'
 follow-up actions:
   Bump the version number now!
   Start committing last-minute fixes in preparing your release
   When done, run:
        git flow release finish '1.0.0'
  'S C:\Users\User\Documents\MatMod> echo "1.0.0" >> version
    C:\Users\User\Documents\MatMod> git add .
    C:\Users\User\Documents\MatMod> git commit -am "main: add version"
 [release/1.0.0 ddd9alb] main: add version
 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 version
create mode 100044 version
Surtched to branch 'master'
Surtched to branch 'master'
Your branch is up to date with 'origin/master'.
Were branch is up to date with 'origin/master'.
Were made by the 'ort' strategy.

1 file changed, 0 insertions(c), 0 deletions(-)
create mode 100044 version
Already on 'master'
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)
```

Figure 6: Инициализация git-flow и создание релиза

Использование системы управления версиями

```
PS C:\Users\User\Documents\MatMod> git push --all
Enumerating objects: 6. done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 476 bytes | 158.00 KiB/s, done.
Total 5 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To github.com:IskanderAbdullaev/MatMod.git
   383ed8b..3649317 master -> master
   [new branch]
                         develop -> develop
PS C:\Users\User\Documents\MatMod> git push --tags
Enumerating objects: 1. done.
Counting objects: 100% (1/1), done.
writing objects: 100% (1/1), 167 bytes | 167.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:IskanderAbdullaev/MatMod.git
   Inew tagl
                         v1.0.0 -> v1.0.0
PS C:\Users\User\Documents\MatMod>
```

Figure 7: Отправка изменений в сетевой репозиторий

Выполним объединение веток

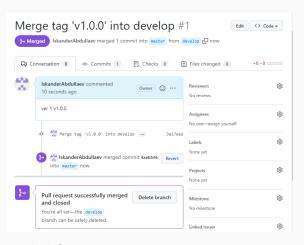


Figure 8: Объединение веток в сетевом репозитории

Выводы по проделанной работе

Вывод

Мы приобрели практические навыки работы с системой контроля версий git и создали свой репозиторий