Лабораторная работа 1

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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

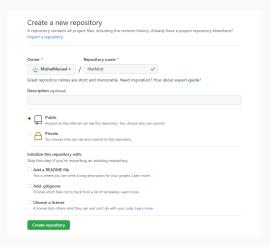


Figure 1: Создание репозитория

Инициализируем локальный репозиторий

```
PS C:\Users\User\Desktop\University\labs> git init
Initialized empty Git repository in c:\Users\User\Desktop\University\labs/.git/
PS C:\Users\User\Desktop\University\labs> echo "# dEoparopnee paGoru" >> README.md
PS C:\Users\User\Desktop\University\labs> git add README.md
PS C:\Users\User\Desktop\University\labs> git add README.md PaGoru" >> README.md
PS C:\Users\User\Desktop\University\labs> git add README.md
```

Figure 2: Инициализация репозитория

Создаем SSH-ключ

```
Se Children Unerstanking with overstry (about 11 and 18,000 for Control Children Unerstanking University) allowed the Children Control Children Chi
```

Figure 3: Создание SSH-ключа

Создаем SSH-ключ

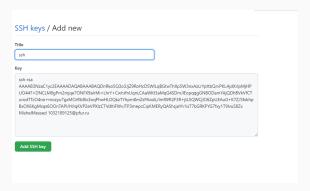


Figure 4: Добавление ключа на github.com

Загружаем служебные файлы

```
Scillanding Control (Control Control C
```

Figure 5: Загрузка файлов лицензии и gitignore

Использование системы управления версиями

```
PS C:\Users\User\Desktop\University\labs> 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'
 ollow-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\Desktop\University\labs> echo "1.0.0" >> VERSION
 S C:\Users\User\Desktop\University\labs> git add
 S C:\Users\User\Desktop\University\labs> git commit -am "chore(main): add version"
 [release/1.0.0 ce85d79] chore(main): add version
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 VERSION
 'S C:\Users\User\Desktop\University\labs> git flow release finish -m "ver 1" 1.0.0
Switched to branch 'master
Merge made by the 'ort' strategy.

VERSION | Bin 0 -> 16 bytes

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100604 VERSION

Already on "master"
Your branch is up to date with 'origin/master'.
Your branch is ahead of 'origin/master' by 2 commits.
(use "git push" to publish your local commits)
Switched to branch 'develop'
 lerge made by the 'ort' strategy.
 VERSION | Bin | -> 10 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 VERSION
Deleted branch release/1.0.0 (was ce85d79).
 Summary of actions:
  Release branch 'release/1.0.0' has been merged into 'master'
  The release was tagged 'v1.0.0'
Release tag 'v1.0.0' has been back-merged into 'develop'
  Release branch 'release/1.0.0' has been locally deleted
  You are now on branch 'develop'
 PS C:\Users\User\Desktop\University\labs> _
```

Figure 6: Инициализация git-flow и создание релиза

Использование системы управления версиями

```
PS C:\Users\User\Desktop\University\labs> git push --all
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 1\overline{0}0\% (4/4), done.
Writing objects: 100% (5/5), 479 bytes | 239.00 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:MishelMessed/MatMod.git
   3ed1ba6..4e57295 master -> master
* [new branch]
                     develop -> develop
PS C:\Users\User\Desktop\University\labs> git push --tags
Enumerating objects: 1, done.
Counting objects: 100\%'(1/1), done.
Writing objects: 100\% (1/1), 164 bytes | 164.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:MishelMessed/MatMod.git
                     v1.0.0 -> v1.0.0
PS C:\Users\User\Desktop\University\labs>
```

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