Отчёт по лабораторной работе №1

Система контроля версий Git

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1 Цель работы

Изучить работу с системой контроля версий git.

2 Выполнение лабораторной работы

Созданы учетная запись и репозиторий на github.com

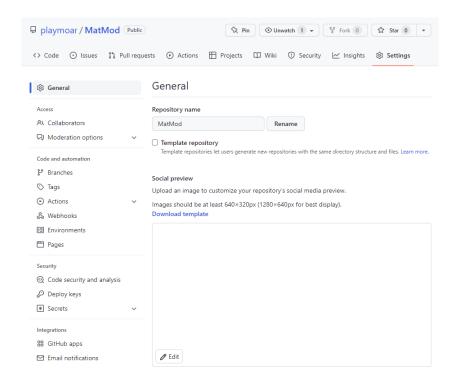


Figure 2.1: Создание репозитория

Инициализирован локальный репозиторий, создан файл README.md, установлены имя пользователя и e-mail, сделан первый commit.

```
PS F:\MatMod> git init
Initialized empty Git repository in F:/MatMod/.git/
PS F:\MatMod> echo "# MatMod labs" >> README.md
PS F:\MatMod> git add README.md
PS F:\MatMod> git config -- global user.name "playmoar"
error: key does not contain a section: global
PS F:\MatMod> git config -- global user.name playmoar
error: key does not contain a section: global
PS F:\MatMod> git config -- global user.name playmoar
PS F:\MatMod> git config -- global user.name playmoar
PS F:\MatMod> git config -- global user.email "playmoar@icloud.com"
PS F:\MatMod> git commit -- global user.email "playmoar@icloud.com"
```

Figure 2.2: Инициализация репозитория, README, commit

Создан SSH-ключ, созданный ключ добавлен в настройках пользователя github.com.

Figure 2.3: Создание SSH-ключа на устройстве

Загружены файлы лицензионного соглашения и gitignore. Получен доступ к сетевому репозиторию, загруженные файлы отправлены в репозиторий.

```
PS F:\MatMod> git remote add origin git@github.com:playmoar/MatMod.git
PS F:\MatMod> wget https://creativecommons.org/licenses/by/4.0/legalcode.txt -0 LICENSE
PS F:\MatMod> wget https://www.toptal.com/developers/gitignore/api/python -0 .gitignore
PS F:\MatMod> git add .

warning: LF will be replaced by CRLF in .gitignore.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in LICENSE.
The file will have its original line endings in your working directory
PS F:\MatMod> git commit -am "added license and gitignore"
[master fbec9bi] added license and gitignore
2 files changed, 563 insertions(+)
create mode 100644 gitignore
create mode 100644 gitignore
reate mode 100644 gitignore
The authenticity of host 'github.com (140.82.121.4)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (7/7), 7.80 KiB | 1.95 MiB/s, done.
Total 7 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:playmoar/MatMod.git
    * [new branch] master -> master
Dranch 'master' set up to track 'origin/master'.
PS F:\MatMod> git push
Everything up-to-date

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Figure 2.4: Загрузка файлов

Создана тестовая ветка, начат и завершён тестовый релиз.

```
PS F:\MatMod> git flow init
 Which branch should be used for bringing forth production releases?
 - master

Branch name for production releases: [master]

Branch name for "next release" development: [develop]
 How to name your supporting branch prefixes?
Feature branches? [feature/]
Bugfix branches? [bugfix/]
Release branches? [release/]
Hotfix branches? [hotfix/]
Support branches? [support/]
Version tag prefix? [] v
Hooks and filters directory? [F:/MatMod/.git/hooks]
PS F:/MatMod> git branch
   master
PS F:\MatMod> git flow release start 1.0.0
Switched to a new branch 'release/1.0.0'
      immary 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'

PS F:\MatMod> echo "1.0.0" >> version
PS F:\MatMod> git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'?
hint: Turn this message off by running
hint: "git config advice.addEmptyPathspec false"
PS F:\MatMod> git add .
PS F:\MatMod> git commit -am "main: added version 1.0.0

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 version
PS F:\MatMod> git flow release finish -m "v 1" 1.0.0

Switched to branch 'master'
Your branch is up to date with 'origin/master'.
Merge made by the 'ort' strategy.
version | Bin w -> is bytes
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 version
Already on 'master'
Your branch is ahead of 'origin/master' by 2 commits.
(use "git push" to publish your local commits)
Switched to branch 'develop'
Nerge made by the 'ort' strategy.
version | Bin w -> is bytes
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 version
Deleted branch release/1.0.0 (was cb4ef30).
                    git flow release finish '1.0.0'
   Summary of actions:
         ummary 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'
```

Figure 2.5: Инициализация git-flow, тестовый релиз

Внесённые изменения отправлены в репозиторй.

```
PS F:\MatMod> git push --all
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 495 bytes | 495.00 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:playmoar/MatMod.git
  fbec9b1..158ac55 master -> master
* [new branch] develop -> develop
PS F:\MatMod> git push --tags
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), done.
Writing objects: 100% (1/1), 153 bytes | 153.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:playmoar/MatMod.git
* [new tag] v1.0.0 -> v1.0.0
PS F:\MatMod>
```

Figure 2.6: Отправка изменений в репозиторий

3 Вывод

Изучена работа с системой контроля версий git, приобретены навыки создания и управления репозиторием, ветками и релизами.

Список литературы

1. Документация по системе git – Режим доступа: https://git-scm.com/book/ru/v2