

Лабораторная №4

Отчёт-презентация

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Информация

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Задание

Выполнить работу для тестового репозитория, Преобразовать рабочий репозиторий в репозиторий с git-flow и conventional commits.

Выполнение лабораторной работы

Шаг 1

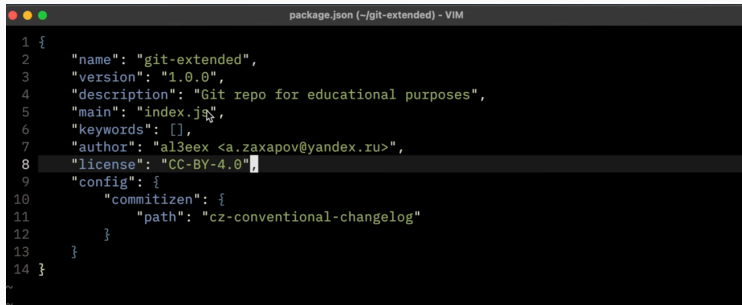
Продemonстрировал установку node, pnpm, git-flow, создал репозиторий git-extended и сделал первый коммит.

```
~/git-extended
~
apzakharov > brew list | list
zsh: command not found: list
^C
~
apzakharov > brew list | less
~
apzakharov > less .zshrc
~
apzakharov > pnpm add -g commitizen standard-changelog
Packages: +209
+-----+
Progress: resolved 209, reused 208, downloaded 1, added 209, done

/Users/user/Library/pnpm/global/5:
+ commitizen
+ standard-changelog

Done in 15.8s
~
apzakharov > gh repo create git-extended --public
✓ Created repository al3eex/git-extended on GitHub
  https://github.com/al3eex/git-extended
~
apzakharov > git clone git@github.com:al3eex/git-extended.git
Cloning into 'git-extended'...
```

Редактирование package.json

A screenshot of a VIM text editor window. The title bar at the top reads "package.json (~/.git-extended) - VIM". The editor shows a JSON file with the following content:

```
1 {  
2   "name": "git-extended",  
3   "version": "1.0.0",  
4   "description": "Git repo for educational purposes",  
5   "main": "index.js",  
6   "keywords": [],  
7   "author": "al3eex <a.zaxapov@yandex.ru>",  
8   "license": "CC-BY-4.0",  
9   "config": {  
10     "commitizen": {  
11       "path": "cz-conventional-changelog"  
12     }  
13   }  
14 }
```

 The cursor is positioned at the end of line 8, after the comma following "CC-BY-4.0".

Рис. 2: Редактирование package.json

Создал релиз версии 1.0.0 с помощью git flow.

```
~/git-extended
apzakharov > git flow release finish 1.0.0
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
Merge made by the 'ort' strategy.
  CHANGELOG.md | 4 ++++
  1 file changed, 4 insertions(+)
  create mode 100644 CHANGELOG.md
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Merge made by the 'ort' strategy.
  CHANGELOG.md | 4 ++++
  1 file changed, 4 insertions(+)
  create mode 100644 CHANGELOG.md
Deleted branch release/1.0.0 (was 15dca47).

Summary of actions:
- Latest objects have been fetched from 'origin'
- Release branch has been merged into 'main'
- The release was tagged '1.0.0'
- Release branch has been back-merged into 'develop'
- Release branch 'release/1.0.0' has been deleted
```

Рис. 3: первый релиз 1.0.0

Создал feature-branch с помощью git flow и сделал merge в develop ветку.

```
~/git-extended
apzakharov > git flow feature start feature_branch
Switched to a new branch 'feature/feature_branch'

Summary of actions:
- A new branch 'feature/feature_branch' was created, based on 'develop'
- You are now on branch 'feature/feature_branch'

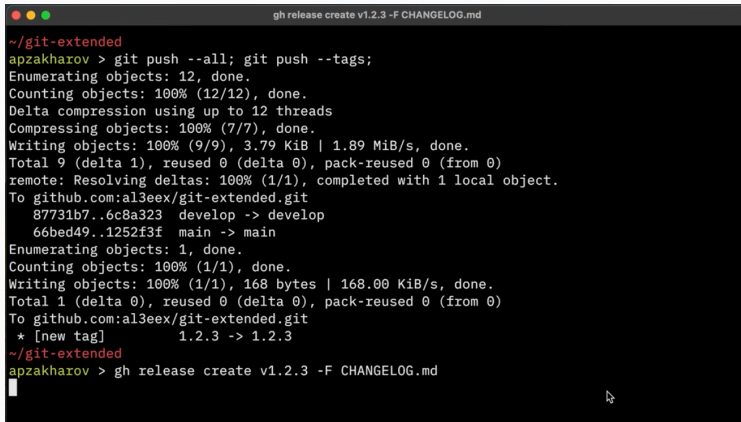
Now, start committing on your feature. When done, use:

    git flow feature finish feature_branch

~/git-extended
```

Рис. 4: feature-branch и merge в develop

Создал релиз версии 1.2.3 с помощью git flow.

A terminal window with a dark background and light-colored text. The title bar at the top reads "gh release create v1.2.3 -F CHANGELOG.md". The terminal shows a user at a prompt in the directory ~/git-extended. The user enters "git push --all; git push --tags;". The terminal output shows the progress of pushing all branches and tags to the remote repository. It indicates that 12 objects were enumerated, compressed, and written. The remote repository is identified as github.com:al3eex/git-extended.git. The user then enters "gh release create v1.2.3 -F CHANGELOG.md".

```
~/git-extended
apzakharov > git push --all; git push --tags;
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 12 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (9/9), 3.79 KiB | 1.89 MiB/s, done.
Total 9 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:al3eex/git-extended.git
   87731b7..6c8a323  develop -> develop
   66bed49..1252f3f  main -> main
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 168 bytes | 168.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:al3eex/git-extended.git
 * [new tag]          1.2.3 -> 1.2.3
~/git-extended
apzakharov > gh release create v1.2.3 -F CHANGELOG.md
```

Рис. 5: первый релиз 1.2.3

Выводы

Во время выполнения лабораторной работы я углубил свои знания экосистемы git и научился продвинутому пользованию релизами и ветками разработки.