

Лабораторная работа № 4.

Продвинутое использование git

Карпова Е.А.

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Российский университет дружбы народов, Москва, Россия

Информация

- Карпова Есения Алексеевна
- Студентка НКАбд-02-23
- ФФМиЕН
- Российский университет дружбы народов
- 1132236008@pfur.ru
- <https://github.com/eakarpova>

Вводная часть

- Каждому разработчику необходим навык правильной работы с репозиториями git

- Цель: получение навыков правильной работы с репозиториями git
- Задачи:
 1. Выполнить работу для тестового репозитория.
 2. Преобразовать рабочий репозиторий в репозиторий с git-flow и conventional commits.

Выполнение лабораторной работы

- Установка git-flow и Node.js

Ubuntu

- **Ubuntu 18.04:** git-flow AVH edition is packaged with Ubuntu. You can install the last version of git-flow AVH Edition using:

```
$ sudo apt-get install git-flow
```



Then install Node.js:

```
$ sudo apt install nodejs
```

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- Установка программ для форматирования коммитов и создания логов

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/Desktop/work/git-extended$ npm add -g commitizen
```

```
added 168 packages in 11s
```

```
27 packages are looking for funding  
run `npm fund` for details
```

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/Desktop/work/git-extended$ npm add -g standard-changelog
```

```
added 71 packages in 7s
```

```
16 packages are looking for funding  
run `npm fund` for details
```

- Создание ветки для новой функциональности

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/Desktop/work/git-extended$ git flow feature start feature_branch
Switched to a new branch 'featurefeature_branch'

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

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

    git flow feature finish feature_branch

eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/Desktop/work/git-extended$ git flow feature finish feature_branch
Switched to branch 'develop'
Already up to date.
Deleted branch featurefeature_branch (was 9646267).

Summary of actions:
- The feature branch 'featurefeature_branch' was merged into 'develop'
- Feature branch 'featurefeature_branch' has been locally deleted
- You are now on branch 'develop'
```

- Создание релиза с версией 1.2.3 и обновление номера версии в файле package.json

```
{  
  "name": "git-extended",  
  "version": "1.2.3",  
  "description": "Git repo for educational purposes",  
  "main": "index.js",  
  "repository": "git@github.com:eakarpova/git-extended.git",  
  "author": "Esenia Karpova <1132236008@pfur.ru>",  
  "license": "CC-BY-4.0",  
  "config": {  
    "commitizen": {  
      "path": "cz-conventional-changelog"  
    }  
  }  
}
```

Залив релизной ветки

- Залив релизной ветки в основную

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/Desktop/work/git-extended$ git flow release finish 1.2.3
Branches 'main' and 'origin/main' have diverged.
And local branch 'main' is ahead of 'origin/main'.
Branches 'develop' and 'origin/develop' have diverged.
And local branch 'develop' is ahead of 'origin/develop'.
Already on 'main'
Your branch is ahead of 'origin/main' by 3 commits.
  (use "git push" to publish your local commits)
Switched to branch 'develop'
Merge made by the 'ort' strategy.
 CHANGELOG.md | 4 ++++
  package.json | 2 +-
  2 files changed, 5 insertions(+), 1 deletion(-)
Deleted branch release1.2.3 (was db1f6ad).

Summary of actions:
- Release branch 'release1.2.3' has been merged into 'main'
- The release was tagged '1.2.3'
- Release tag '1.2.3' has been back-merged into 'develop'
- Release branch 'release1.2.3' has been locally deleted
- You are now on branch 'develop'
```

Результаты

- В ходе лабораторной работы я получила навык правильной работы с репозиториями git