Краткий отчёт по реализации 2-ого этапа проекта

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Цель реализации создания сайта (2 этап)

Приобрести практические навыки размещения информации о себе и выкладывания постов на собственном сайте путем редактирования файлов в каталогах, создания новых файлов и каталогов и обновления через Терминал файлов.

Ход реализации создания сайта (2 этап)

Добавить к сайту данные о себе:

- Разместить фотографию владельца сайта.
- Разместить краткое описание владельца сайта (Biography).
- Добавить информацию об интересах (Interests).
- Добавить информацию об образовании (Education).
- Сделать пост по прошедшей неделе.
- Добавить пост на тему по выбору:
 - Управление версиями. Git.
 - Непрерывная интеграция и непрерывное развертывание (CI/CD).

Подробное описание процесса с иллюстрациями:

1. Для начала запустим созданный сайт: (рис. [-@fig:001])

```
[misamsonova@fedora blog]$ hugo server
hugo: downloading modules .
hugo: collected modules in 17168 ms
Start building sites .
hugo v0.98.0-165d299cde259c8b801abadc6d3405a229e449f6+extended linux/amd64 BuildDate=2022-04-28T10:23:30Z VendorInfo=gohugoio
                   I EN
                   | 53
 Pages
 Paginator pages
 Non-page files
 Processed images | 16
 Aliases
 Sitemaps
 Cleaned
Watching for changes in /home/misamsonova/blog/{assets,content,data,static}
Watching for config changes in /home/misamsonova/blog/config/_default, /home/misamsonova/blog/go.mod
Environment: "development"
Serving pages from memory
Running in Fast Render Mode. For full rebuilds on change: hugo server --disableFastRender
 eb Server is available at http://localhost:1313/ (bind address 127.0.0.1)
 ress Ctrl+C to stop
```

Запуск работы сайта

{ #fig:001 width=70% }

2. Изменим информацию о себе, отыскав файл_index.md в каталоге ~/blog/content/authors/admin и внеся в него основные сведения (образование, имя и фамилия, сайт университета, интересы и пр.):(рис. [-@fig:002]) и (рис. [-@fig:003])

```
index.md
               \oplus
  Открыть 🔻
                                                                 ~/blog/content/authors/admin
 2 # Display name
 3 title: Samsonova Maria
 5 # Is this the primary user of the site?
 6 superuser: true
 8 # Role/position/tagline
9 role: Student of the direction of physical, mathematical and natural sciences
11 # Organizations/Affiliations to show in About widget
12 organizations:
13 - name: RUDN University
14
      url: https://www.rudn.ru/
15
16 # Short bio (displayed in user profile at end of posts)
17 bio: My research interests include distributed robotics, mobile computing and programmable mat
19 # Interests to show in About widget
20 interests:
21 - Programming
22 - Mathematical analysis
23 - Discrete mathematics
24 - History
25 - Mathematical logic
26
27 # Education to show in About widget
28 education:
29 courses:
30
     - course: 1 course
       institution: RUDN Moscow
32
       year: 2022
33
34 # Social/Academic Networking
35 # For available icons, see: https://wowchemy.com/docs/getting-started/page-builder/#icons
36 # For an email link, use "fas" icon pack, "envelope" icon, and a link in the
37 # form "mailto:your-email@example.com" or "/#contact" for contact widget.
38 social:
39 - icon: envelope
40
      icon_pack: fas
      link: '/#contact'
41
42 - icon: twitter
43
      icon_pack: fab
    link: https://twitter.com/GeorgeCushen
45 - icon: graduation-cap # Alternatively, use `google-scholar` icon from `ai` icon pack
                                                                                     Markdown ▼
```

Изменение информации о себе

{ #fig:002 width=70% }

```
- course: 1 course
           year: 2022
35 # For available icons, see: https://wowchemy.com/docs/getting-started/page-builder/#icons
36 # For an email link, use "fas" icon pack, "envelope" icon, and a link in the
37 # form "mailto:your-email@example.com" or "/#contact" for contact widget.
    - icon: envelope
icon_pack: fas
link: '/#contact'
- icon: twitter
        icon_pack: fab
link: https://twitter.com/GeorgeCushen

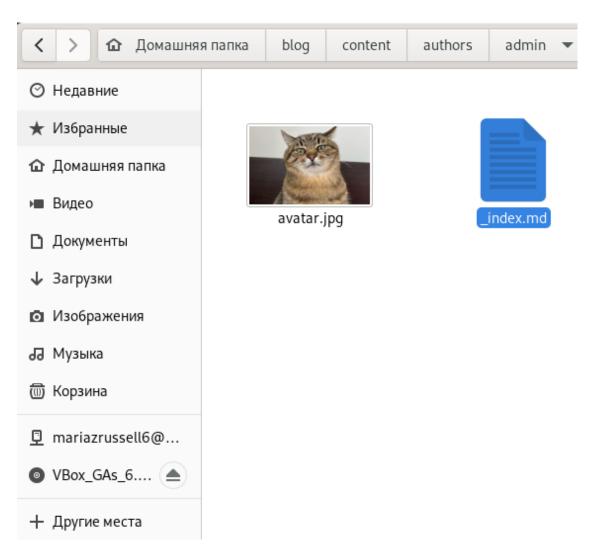
    icon: graduation-cap # Alternatively, use `google-scholar` icon from `ai` icon pack
icon_pack: fas

        link: https://scholar.google.co.uk/citations?user=sIwtMXoAAAAJ
     icon_pack: fab
link: https://github.com/gcushen
- icon: linkedin
       icon_pack: fab
link: https://www.linkedin.com/
55 # Link to a PDF of your resume/CV.
56 # To use: copy your resume to `static/uploads/resume.pdf`, enable `ai` icons in `params.toml`,
57 # and uncomment the lines below.
58 # - icon: cv
59 # icon_pack: ai
60 # link: uploads/resume.pdf
62 # Enter email to display Gravatar (if Gravatar enabled in Config)
63 email: ''
65 # Highlight the author in author lists? (true/false)
66 highlight_name: true
69 Welcome to my website. my name is Maria. I was born on December 6, 2003 in the first science city of the world, the city of Obninsk, Russia.
70 At the moment I am a student of the RUDN University. If you are interested in programming, robotics or foreign languages, I will be glad to talk 1
at t
you.
71
72 {{< icon name="download" pack="fas" >}} Download my {{< staticref "uploads/demo_resume.pdf" "newtab" >}}resumé{{< /staticref >}}.
                                                                                                                      Markdown ▼ Ширина табуляции: 8 ▼ Стр 9, Стл61 ▼ ВС
```

Изменение информации о себе

{ #fig:003 width=70% }

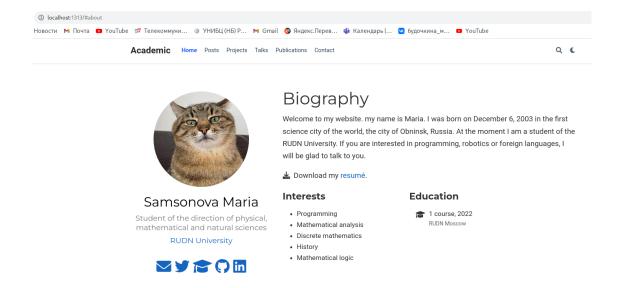
3. Меняем фотографию на странице, загрузив фотографию в каталог ~/blog/content/authors/admin и переименовав в avatar.jpg: (рис. [-@fig:004])



Изменение фотографии на сайте

{ #fig:004 width=70% }

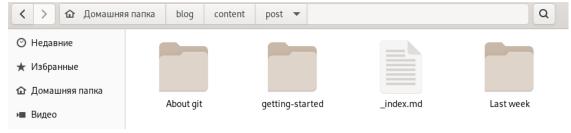
4. Открываем сайт, чтобы удостовериться, что изменения применены: (рис. [-@fig:005])



Изменение информации на сайте

{ #fig:005 width=70% }

5. Далее мы переходим в каталог ~/blog/content/post, создаём новые каталоги "my last week" и "About git" и копируем в них файл _index.md: (рис. [-@fig:006])



Создание новых папок

{ #fig:006 width=70% }

6. Теперь переходим в каталог "my last week" и в файле _index.md добавляем информацию о прошедшей неделе. Также добавляем в данный каталог картинку: (рис. [-@fig:007])

```
index.md
 2 title: My last week
3 subtitle: Hello 🐧 You want to know about what I've been doing this past week, don't you? Then I'll tell you about it right now!
 5 # Summary for listings and search engines
 7# Link this post with a project
8 projects: []
10 # Date published
11 date: '2022-05-07T00:00:00Z'
13 # Date updated
14 lastmod: '2022-05-07T00:00:00Z'
16 # Is this an unpublished draft?
18
19 # Show this page in the Featured widget?
20 featured: false
22 # Featured image
23 # Place an image named `featured.jpg/png` in this page's folder and customize its options here.
27 placement: 2
28 preview_only: false
30 authors:
31 - admin
32 - 吳恩達
33
34 tags:
35 - Academic
36 - 开源
36 - 开原
37
38 categories:
39 - Demo
40 - 教程
41 ---
42
43 ## Overview
444 451. Last week I managed to launch my website thanks to the Hugo statistical website generator. And he's right in front of your eyes! ***Cool, isn't it?***
462. I also managed to do two laboratory work on the subject of "Operating systems": The basics of the interface of user interaction with the Unix system at the command line level and working with reports in Markdown.
```

Редактирование информации в файле

{ #fig:007 width=70% }

7. После этого переходим в каталог "About git" и в файле _index.md добавляем информацию об управлении версиями git, также добавляем в данный каталог картинку: (рис. [-@fig:008]), (рис. [-@fig:009]) и (рис. [-@fig:010])

```
index.md
  Открыть ▼ 🛨
                                                                                                                                                                                         Сохранить =
 2 title: Version control. Git.
3 subtitle: Hi! Notay I will tell you about the git version control system. Let's get started!
            ary for listings and search engines
  6 summary: Hi! % Today I will tell you about the git version control system. Let's get started!
7 # Link this post with a project
 8 projects: []
11 date: '2022-05-07T00:00:00Z
13 # Date updated
14 lastmod: '2022-05-07T00:00:00Z'
16 # Is this an unpublished draft?
17 draft: false
19 # Show this page in the Featured widget?
22 # Featured image
23 # Place an image named `featured.jpg/png` in this page's folder and customize its options here.
24 image:
     caption: 'Image credit: [**Unsplash**](https://unsplash.com/photos/CpkOjOcXdUY)'
    focal_point:
placement: 2
     preview_only: false
30 authors:
31 - admin
32 - 吳恩達
34 tags:
35 - Academic
36 - 开源
38 categories:
39 - Demo
40 - 教程
43 # About the version control system
444

45 What is a "version control system" and why is it important? A version control system is a system that records changes to a file or set of files over time
and allows you to return later to a specific version. For file version control, this book will use the source code of the software as an example,
although in fact you can use version control for almost any type of file.
```

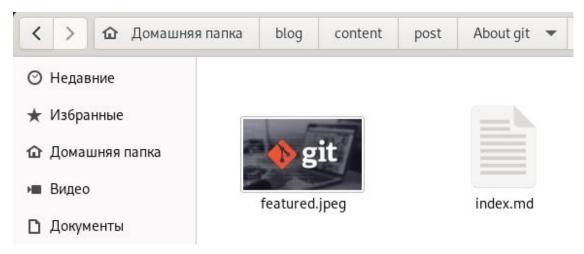
Редактирование информации в файле

{ #fig:008 width=70% }

```
43 # About the version control system
444

45 What is a "version control system" and why is it important? A version control system is a system that records changes to a file or set of files over time and allows you to return later to a specific version. For file version control, this book will use the source code of the software as an example, although in fact you can use version control for almost any type of file.
46
47 If you are a graphic or web designer and you want to save every version of an image or layout (most likely you will), the version control system
(hereinafter referred to as SLE) – just what you need. It allows you to return files to the state they were in before the changes, return the project to
its original state, see the changes, see who last changed something and caused the problem, who set the task and when, and much more. Using SLE also
means in general that if you have broken something or lost files, you can safely fix everything. In addition to everything, you will get it all without
     any extra effort.
49 # Local version control systems
50 Many people use copying files to a separate directory as a version control method (perhaps even a directory with a time stamp, if they are smart enough).
    This approach is very common because of its simplicity, but it is incredibly prone to errors. You can easily forget which directory you are in and
     accidentally change the wrong file or copy the wrong files that you wanted.
 52 In order to solve this problem, programmers have long ago developed local SLE with a simple database that stores records of all changes in files, thereby
     monitoring revisions
54 One of the most popular SLE was the RCS system, which is still distributed with many computers today. RCS stores on disk sets of patches (differences between files) in a special format, using which it can recreate the state of each file at a given time.
55 of the next major problem that people face is the need to interact with other developers. In order to deal with it, centralized version control systems (CSCs) were developed. Systems such as CVS, Subversion, and Perforce use a single server containing all versions of files, and a number of clients that receive files from this centralized repository. The use of CSCs has been the standard for many years.
 55 This approach has many advantages, especially over local SLE. For example, all project developers know to a certain extent what each of them is doing.
     Administrators have full control over who can do what, and it is much easier to administer the CSCS than to operate local databases on each client.
 61 Despite this, this approach also has serious disadvantages. The most obvious disadvantage is a single point of failure represented by a centralized
    server. If this server goes down for an hour, then during this time no one will be able to use version control to save the changes they are working on, and no one will be able to share these changes with other developers. If the hard disk on which the central database is stored is damaged, and there are no timely backups, you will lose everything – the entire history of the project, not counting single repository snapshots that have been saved on local developer machines. Local SLE suffer from the same problem: when the entire project history is stored in one place, you risk losing everything.
64 This is where distributed version control systems (RCS) come into play. In RSKV (such as Git, Mercurial, Bazaar or Darcs), clients do not just download a snapshot of all files (the state of files at a certain point in time) – they completely copy the repository. In this case, if one of the servers through which the developers exchanged data dies, any client repository can be copied to another server to continue working. Each copy of the repository is a
     complete backup of all data.
608 Moreover, many RSCs can simultaneously interact with several remote repositories, thanks to this you can work with different groups of people using different approaches at the same time within the same project. This allows you to apply several approaches to development at once, for example, hierarchical models, which is completely impossible in centralized systems.
```

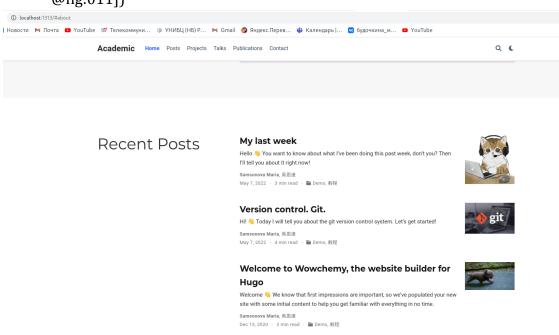
{ #fig:009 width=70% }



Добавлении картинки

{ #fig:010 width=70% }

8. Открываем сайт, чтобы удостовериться, что изменения применены: (рис. [-@fig:011])



Добавление постов на сайте

{ #fig:011 width=70% }

9. Также замечаем, что наши изменения фиксируются в Терминале: (рис. [-@fig:012])

```
Change detected, rebuilding site.
2022-05-07 16:54:34.613 +0300
source changed "/home/misamsonova/blog/content/post/getting-started (копия)": RENAME
Source changed "/home/misamsonova/blog/content/post/Last week/featured.jpg": CREATE
Source changed "/home/misamsonova/blog/content/post/Last week/index.md": CREATE
Total in 878 ms
Change detected, rebuilding site.
2022-05-07 16:57:08.613 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/file_269448.webp": WRITE
Total in 130 ms
Change detected, rebuilding site.
2022-05-07 16:58:01.613 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/file_269448.webp": RENAME
Total in 79 ms
Change detected, rebuilding site.
2022-05-07 16:58:26.634 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/file_269448 (1).jpg": CREATE
Total in 215 ms
Change detected, rebuilding site.
2022-05-07 16:58:36.613 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/file_269448 (1).jpg": RENAME
Source changed "/home/misamsonova/blog/content/post/Last week/f<u>eatured1.jpg": CREATE</u>
otal in 87 ms
Change detected, rebuilding site.
2022-05-07 16:58:37.613 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/featured.jpg": RENAME
otal in 452 ms
Change detected, rebuilding site.
2022-05-07 16:58:42.114 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/featured1.jpg": RENAME
Source changed "/home/misamsonova/blog/content/post/Last week/featured.jpg": CREATE
Total in 303 ms
Change detected, rebuilding site.
2022-05-07 17:01:58.116 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/index.md": CREATE
Total in 309 ms
hange detected rebuilding site
```

Вывод об изменениях сайта в Терминале

{ #fig:012 width=70% }

10. Теперь следующими командами мы обновляем файлы на github и запускаем сервер для просмотра другими пользователями сайта с уже изменённой информацией:(рис. [-@fig:013]),(рис. [-@fig:014]),(рис. [-@fig:015])

```
[misamsonova@fedora blog]$ git add .
[misamsonova@fedora blog]$ git commit -am 'Everything is new'
^[[A[main 53d9249] Everything is new
 7 files changed, 241 insertions(+), 20 deletions(-)
 rewrite content/authors/admin/avatar.jpg (98%)
 create mode 100644 content/post/About git/featured.jpeg
create mode 100644 content/post/About git/index.md
 create mode 100644 content/post/Last week/featured.jpg
create mode 100644 content/post/Last week/index.md
[misamsonova@fedora blog]$ git push
Перечисление объектов: 21, готово.
Подсчет объектов: 100% (21/21), готово.
При сжатии изменений используется до 2 потоков
Сжатие объектов: 100% (14/14), готово.
Запись объектов: 100% (14/14), 171.33 КиБ | 6.34 МиБ/с, готово.
Всего 14 (изменений 4), повторно использовано 0 (изменений 0), повторно использовано пакетов 0
remote: Resolving deltas: 100% (4/4), completed with 3 local objects.
To https://github.com/misamsonova/blog.git
  0bcf1b0..53d9249 main -> main
```

Ввод команд для обновления файлов на github

{ #fig:013 width=70% }

```
^C[misamsonova@fedora blog]$ hugo
Start building sites
hugo v0.98.0-165d299cde259c8b801abadc6d3405a229e449f6+extended linux/amd64 BuildDate=2022-04-28T10:23:30Z VendorInfo=gohugoio
                     I EN
  Pages
  Paginator pages
 Non-page files
  Processed images | 19
 Aliases
                     | 11
  Sitemaps
  Cleaned
Total in 1353 ms
[misamsonova@fedora public]$ git add .
[misamsonova@fedora public]$ git commit -am 'Everything is new'
[main 2ddf607] Everything is new
39 files changed, 5238 insertions(+), 113 deletions(-)
rewrite authors/admin/avatar.jpg (98%)
create mode 100644 authors/admin/avatar_hu669edb64a2fa6a04680eb1267b076714_156571_270x270_fill_q75_lanczos_center.jpg
create mode 100644 post/about-git/featured.jpeg
create mode 100644 post/about-git/featured_hu44aaeb6db78b663ce8664da97ba699c8_5558_1200x2500_fit_q75_h2_lanczos.webp
create mode 100644 post/about-git/featured_hu44aaeb6db78b663ce8664da97ba699c8_5558_150x0_resize_q75_h2_lanczos.webp
create mode 100644 post/about-git/index.html
create mode 100644 post/last-week/featured.jpg
create mode 100644 post/last-week/featured_hu69ff2d5a7c8989295ba4849735939a5b_15796_1200x2500_fit_q75_h2_lanczos.webp
create mode 100644 post/last-week/featured_hu69ff2d5a7c8989295ba4849735939a5b_15796_150x0_resize_q75_h2_lanczos.webp
[misamsonova@fedora public]$ git commit _-am 'Everything is new'
На ветке main
Ваша ветка опережает «origin/main» на 1 коммит.
  (используйте «git push», чтобы опубликовать ваши локальные коммиты)
нечего коммитить, нет изменений в рабочем каталоге
[misamsonova@fedora public]$ git push
Перечисление объектов: 119, готово.
Подсчет объектов: 100% (119/119), готово.
При сжатии изменений используется до 2 потоков
 жатие объектов: 100% (63/63), готово.
Запись объектов: 100% (66/66), 244.53 КиБ | 6.43 МиБ/с, готово.
Всего 66 (изменений 33), повторно использовано 0 (изменений 0), повторно использовано пакетов 0
```

Запуск сервера и ввод команд для обновления файлов на github

{ #fig:014 width=70% }

```
Подсчет объектов: 100% (119/119), готово.
При сжатии изменений используется до 2 потоков
Сжатие объектов: 100% (63/63), готово.
Запись объектов: 100% (66/66), 244.53 КиБ | 6.43 МиБ/с, готово.
Всего 66 (изменений 33), повторно использовано 0 (изменений 0), повторно использовано пакетов 0
remote: Resolving deltas: 100% (33/33), completed with 25 local objects.
To https://github.com/misamsonova/misamsonova.github.io.git
   778fa7f..2ddf607 main -> main
[misamsonova@fedora public]$ cd ..
[misamsonova@fedora blog]$ git add .
[misamsonova@fedora blog]$ git commit -am 'Everything is new'
[main 076af18] Everything is new
1 file changed, 1 insertion(+), 1 deletion(-)
[misamsonova@fedora blog]$ git push
Перечисление объектов: 3, готово.
Подсчет объектов: 100% (3/3), готово.
При сжатии изменений используется до 2 потоков
Сжатие объектов: 100% (2/2), готово.
Запись объектов: 100% (2/2), 914 байтов | 914.00 КиБ/с, готово.
Всего 2 (изменений 1), повторно использовано 0 (изменений 0), повторно использовано пакетов 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/misamsonova/blog.git
  53d9249..076af18 main -> main
```

Загрузка обновлённых файлов на github

{ #fig:015 width=70% }

11. Открываем github, чтобы удостовериться, что изменения применены: (рис. [- @fig:016])

misamsonova Everything is new		• 2ddf607 3 hours ago	3 commits
admin	Add site		7 days ago
authors/admin	Everything is new		3 hours ago
categories	Everything is new		3 hours ago
category	Everything is new		3 hours ago
CSS	Add site		7 days ago
en/js	Add site		7 days ago
event	Everything is new		3 hours ago
js	Add site		7 days ago
media	Add site		7 days ago
post	Everything is new		3 hours ago
project	Everything is new		3 hours ago
publication-type/1	Everything is new		3 hours ago
publication	Everything is new		3 hours ago
publication_types	Everything is new		3 hours ago
slides	Add site		7 days ago
tag	Everything is new		3 hours ago
tags	Everything is new		3 hours ago

Обновлённые папки на github

{ #fig:016 width=70% }

12. Запускаем сайт misamsonova.github.io через терминал командой hugo и просматриваем посты, убеждаемся, что всё имеется:(рис. [-@fig:017]),(рис. [-@fig:018]), (рис. [-@fig:019]),(рис. [-@fig:020])

My last week

Hello Nou want to know about what I've been doing this past week, don't you? Then I'll tell you about it right now!

Samsonova Maria, 吳恩達 May 7, 2022 · 3 min read · ■ Demo, 教程



Overview

- Last week I managed to launch my website thanks to the Hugo statistical website generator. And he's right in front of your eyes! Cool, isn't it?
- 2. I also managed to do two laboratory work on the subject of "Operating systems": The basics of the interface of user interaction with the Unix system at the command line level and working with reports in Markdown.

Просмотр nocma "my last week" на сайте { #fig:017 width=70% }

Version control. Git.

Hi! 🁋 Today I will tell you about the git version control system.

Let's get started!

Samsonova Maria, 吳恩達 May 7, 2022 · 6 min read · ■ Demo, 教程



About the version control system

What is a "version control system" and why is it important? A version control system is a system that records changes to a file or set of files over time and allows you to return later to a specific version. For file version control, this book will use the source code of the software as an example, although in fact you can use version control for almost any type of file.

If you are a graphic or web designer and you want to save every version of an image or layout (most likely you will), the version control system (hereinafter referred to as SLE) — just what you need. It allows you to return files to the state they were in before the changes, return the project to its original state, see the changes, see who last changed something and caused the problem, who set the task and when, and much more. Using SLE also means in general that if you have broken something or lost files, you can safely fix everything. In addition to everything, you will get it all without any extra effort.

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Local version control systems

Many people use copying files to a separate directory as a version control method (perhaps even a directory with a time stamp, if they are smart enough). This approach is very common because of its simplicity, but it is incredibly prone to errors. You can easily forget which directory you are in and accidentally change the wrong file or copy the wrong files that you wanted.

In order to solve this problem, programmers have long ago developed local SLE with a simple database that stores records of all changes in files, thereby monitoring revisions.

One of the most popular SLE was the RCS system, which is still distributed with many computers today. RCS stores on disk sets of patches (differences between files) in a special format, using which it can recreate the state of each file at a given time.

Centralized version control systems

The next major problem that people face is the need to interact with other developers. In order to deal with it, centralized version control systems (CSCs) were developed. Systems such as CVS, Subversion, and Perforce use a single server containing all versions of files, and a number of clients that receive files from this centralized repository. The use of CSCS has been the standard for many years.

This approach has many advantages, especially over local SLE. For example, all project developers know to a certain extent what each of them is doing. Administrators have full control over who can do what, and it is much easier to administer the CSCS than to operate local databases on each client.

Despite this, this approach also has serious disadvantages. The most obvious disadvantage is a single point of failure represented by a centralized server. If this server goes down for an hour, then during this time no one will be able to use version control to save the changes they are working on, and no one will be able to share these changes with other developers. If the hard

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Distributed version control systems

This is where distributed version control systems (RCS) come into play. In RSKV (such as Git, Mercurial, Bazaar or Darcs), clients do not just download a snapshot of all files (the state of files at a certain point in time) — they completely copy the repository. In this case, if one of the servers through which the developers exchanged data dies, any client repository can be copied to another server to continue working. Each copy of the repository is a complete backup of all data.

Moreover, many RSCs can simultaneously interact with several remote repositories, thanks to this you can work with different groups of people using different approaches at the same time within the same project. This allows you to apply several approaches to development at once, for example, hierarchical models, which is completely impossible in centralized systems.

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Итог реализации создания сайта (2 этап)

В процессе реализации 2-ого этапа мы приобрели практические навыки размещения информации о себе и выкладывания постов на собственном сайте путем редактирования файлов в каталогах, создания новых файлов и каталогов и обновления через Терминал файлов.

Спасибо за внимание!