

Отчёт о выполнении второго этапа индивидуального проекта

Архитектура компьютеров и операционные системы

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Содержание

Цель работы	1
Задание	1
Выполнение лабораторной работы	2
Добавление данных	2
Разместить фотографию владельца сайта	2
Разместить краткое описание владельца сайта	3
Добавить информацию об интересах	4
Добавить информацию об образовании	4
Пост по прошедшей неделе	4
Пост по теме “Управление версиями GIT”	5
Выводы	6
Список литературы	6

Цель работы

Изучение размещения посты на сайте.

Задание

1. Добавлять данные:
 1. Разместить фотографию владельца сайта
 2. Разместить краткое описание владельца сайта
 3. Добавить информацию об интересах
 4. Добавить информацию об образовании
2. Сделать пост по прошедшей неделе
3. Сделать пост по теме “Управление версиями GIT”

Выполнение лабораторной работы

Добавление данных

Разместить фотографию владельца сайта

Я запускаю hugo в каталоге `~/work/blog/`, чтобы начать создание сайта:

```
cmutale@cmutale:~/work/blog$ ~/bin/hugo
Start building sites ...
hugo v0.134.3-5fb333b9f5ff4ec018f9d78910177d0bec1befb0+extended linux/amd64 BuildDate=2024-09-1
9T14:28:20Z VendorInfo=gohugoio

-----| EN
Pages | 66
Paginator pages | 0
Non-page files | 23
Static files | 1
Processed images | 85
Aliases | 18
Cleaned | 0

Total in 5188 ms
cmutale@cmutale:~/work/blog$
```

Рис. 1: Запуск hugo

Запускаю hugo server, чтобы получить локальный хост-сайт, где я могу видеть вносимые мной изменения:

```
cmutale@cmutale:~/work/blog$ ~/bin/hugo server
Watching for changes in /home/cmatala/.cache/work}
Watching for config changes in /home/cmatala/work/blog/config/_default, /home/cmatala/.cache/hu
go_cache/modules/filecache/modules/pkg/mod/github.com/hugo!blox/hugo-blox-builder/modules/blox
-plugin-netlify@v1.1.2-0.20231209203044-d31adfedd40b/config.yaml, /home/cmatala/.cache/hugo_cac
```

Рис. 2: Запуск hugo server

Для того, чтобы добавить фотографию на сайта я перехожу в каталог `~/work/blog/content/author`:

```
cmutale@cmutale:~/work/blog$ cd content
cmutale@cmutale:~/work/blog/content$ cd authors
cmutale@cmutale:~/work/blog/content/authors$ ls
admin _index.md
cmutale@cmutale:~/work/blog/content/authors$
```

Рис. 3: `~/work/blog/content/author`

Заменяю `avatar.jpg` на свою фотографию и она устанавливается автоматический:

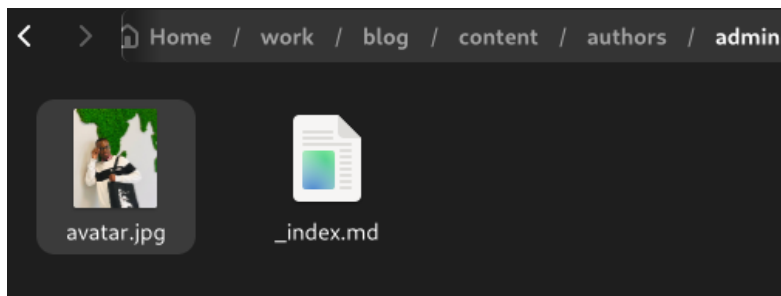


Рис. 4: Замена фотографии

Разместить краткое описание владельца сайта

Далее с помощью gedit я редактирую файл index.md, который находится в ~/work/blog/content/author и добавляю свою краткую биографию:

```
1 ---
2 # Display name
3 title: 吴健雄
4
5 # Name pronunciation (optional)
6 name_pronunciation: Chien Shiung Wu
7
8 # Full name (for SEO)
9 first_name: Shiung Wu
10 last_name: Chien
11
12 # Status emoji
13 status:
14 icon: 🍷
15
16 # Is this the primary user of the site?
17 superuser: true
18
19 # Role/position/tagline
20 role: Professor of Artificial Intelligence
21
22 # Organizations/Affiliations to show in About widget
```

Рис. 5: Файл с информацией владельца

```
24 # Short bio (displayed in user profile at end of posts)
25 bio: My research interests include data science, web and app development and programmable matter.
26
```

Рис. 6: Краткая биография

Проверяю изменения на сайте:

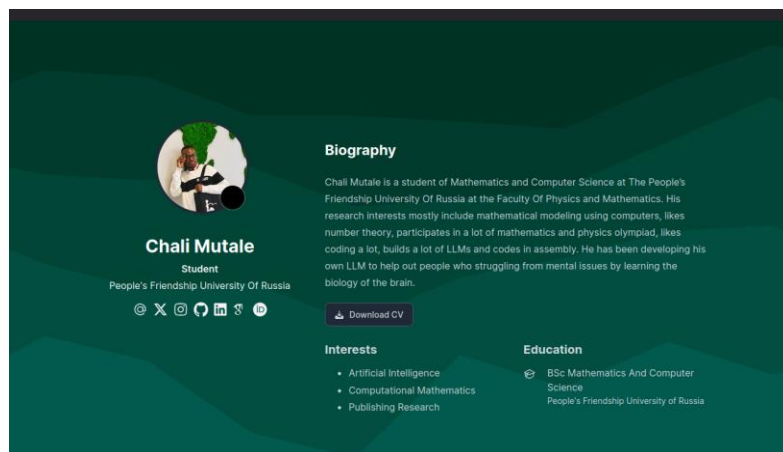


Рис. 7: Проверка на сайте

Добавить информацию об интересах

Также изменяю информацию об интересах:

```
49 # Interests to show in About widget
50 interests:
51   - Artificial Intelligence
52   - Computational Mathematics
53   - Publishing Research
```

Рис. 8: Интересы

Добавить информацию об образовании

Также изменяю информацию об образовании:

```
# Education to show in About widget
education:
  courses:
    - course: BSc Mathematics and Computer Science
      institution: People's Friendship University of Russia
      year: present
```

Рис. 9: Образование

Пост по прошедшей неделе

Я перехожу в каталог `~/work/blog/content/post` и создаю новую папку. Создаю файл `index.md` и вставляю фотографию `featured.jpg`:

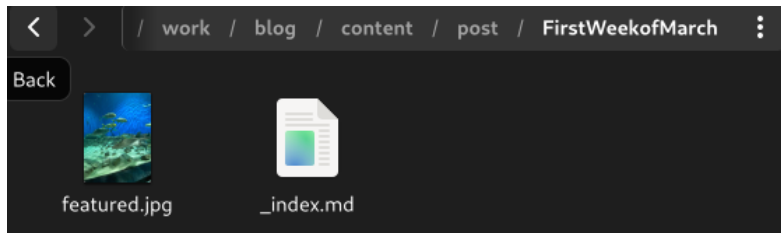


Рис. 10: `~/work/blog/content/post/FirstWeekofMarch`

Я редактирую файл и добавляю информацию по прошедшей неделе:

```

1 ---
2 title: First Week of March 2025
3 date: '2024-03-10'
4 summary: Hey Reader! This is my first blog post, I hope you enjoy this read as much as I enjoyed writing
  it.
5 ---
6
7 ## How My Week Went
8
9 This is a summary of how my first week of march went because i definitely can't post it all :) .
10
11 My first week of March really wasn't too bad. I took a trip to the VTB Arena and that was thee highlight of
  the week. I attended a sports event (just watched soccer with my friends).I did a lot of school work and
  studying of course and I also took some walks for fresh air. I also read an article on analytic continuation
  and finally understood how the non-trivial zeros of the Zeta function are important to prove the prime number
  theorem.
12
13 I could say it was one of my most productive weeks because I was able to get all my work done on time and
  still had time for life outside school. I created this website during my first week of march as a school
  assignment but I don't think of it as school work so it can be more fun. I also wrote a new training
  algorithm for my LLM. I had a very taxi ride to the airport where I was escorting my friend, on my way back I
  got bored and made a beautiful proof on why e(euler's number) is transcendental, I also made some more proofs
  which I will post on my twitter. I did a lot of journaling and I might go back to posting vlogs and videos on
  youtube because I have gotten used to my schedule (The link to my youtube is on my twitter too) . You can
  send recommendations of what you want to see more on my channel. How was your first week of march?
14
15 Thanks for reading!

```

Рис. 11: Пост по прошедшей неделе

Пост по теме “Управление версиями GIT”

Создаю ещё одну новую папку в `~/work/blog/content/post`. Создаю файл `index.md` и вставляю фотографию `featured.jpg`:

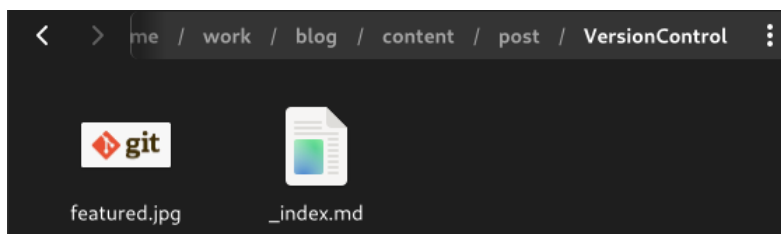


Рис. 12: `~/work/blog/content/post/VersionControl`

Я редактирую файл и добавляю информацию об управлении версиями GIT (Что это такое и как работает):

```

7
8 ## What is Version Control
9
10 Version control is a system that records changes to a file or set of files over time so that you can recall
  specific versions later.
11
12 If you are a graphic or web designer and want to keep every version of an image or layout (which you would
  most certainly want to), a Version Control System (VCS) is a very wise thing to use. It allows you to
  revert selected files back to a previous state, revert the entire project back to a previous state, compare
  changes over time, see who last modified something that might be causing a problem, who introduced an issue
  and when, and more. Using a VCS also generally means that if you screw things up or lose files, you can
  easily recover. In addition, you get all this for very little overhead.
13
14 ## How does it work?
15
16 Git works by keeping track of changes to files in a project over time. Git stores all the data and metadata
  for version control in repositories hosted on platforms like GitHub or GitLab. A repository is like a
  folder that contains all the files and folders for a project which allows collaboration among multiple
  developers by providing a central location to 'push' and 'pull' changes on a project. On your personal
  computer you can keep a local copy of this repository where you can edit your project files (what is known
  as a local repository).
17
18 Before committing your changes, you stage them in a staging area. This allows you to select which changes
  you want to include in your commit. When you're ready to save your changes, you create a commit which is a
  snapshot of the changes you made. Each commit will have a unique identifier and contain metadata like the
  author, a timestamp and a message describing the changes.
19
20 Git allows you to create branches, which are kind of like pointers to specific commits. Branches allow you
  to work on different features of your project without affecting the main codebase. When you're done with a
  branch, you can merge it back into the main branch. Git will combine all the changes from all the different
  branches. Pushing sends your local commits to a remote repository, while pulling retrieves changes from the
  remote repository.
21
22

```

Рис. 13: Редактирование поста об управлении версиями GIT

После сохранения изменений, я отправляю все на github:

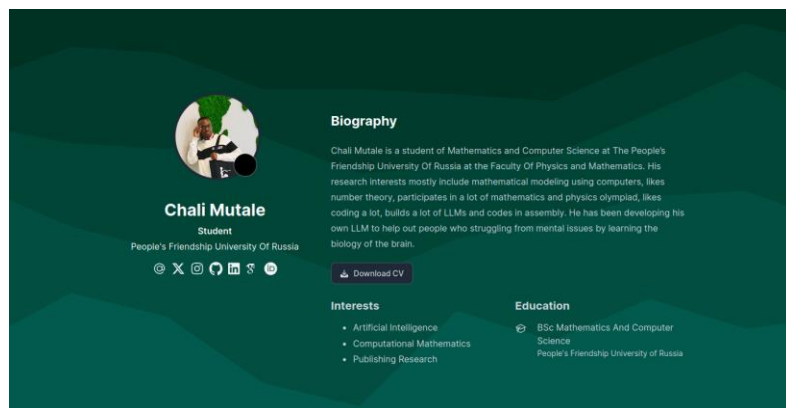


Рис. 14: Развертывание сайта

Выводы

При выполнении данной работы, я освоила размещение посты на сайте по шаблону hugo.

Список литературы

GIT Version Control