**Task 1: Git/GitHub**

**Additional information (optional):**

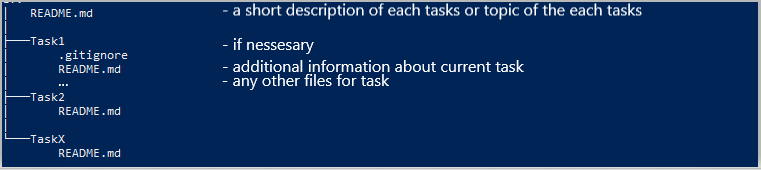
1. Read about Git [https://git-scm.com/doc. Pay attention to the](https://git-scm.com/doc) branching strategies.
2. The “ADV-IT” YouTube channel is recommended (RU).

(<https://www.youtube.com/watch?v=DK2PsTcSFFM&list=PLg5SS_4L6LYstwxTEOU05E0URTHnbtA0l&index=1>)

1. Read about SSH keys.
2. Read about Markdown syntax.
3. Explore pricing policy and your personal billing plan (GitHub).
4. For better understanding complete this course <https://learngitbranching.js.org/?locale=ru_RU>

**Tasks (mandatory):**

1. Create a **Github** account(if you don’t have one).
2. Create new Github repository.
3. Create “*Task1”* folder in the *master* branch. Create and push ./Task1/README.md file.
4. Create **new** **branch** *dev*. Create and push any test file.
5. Create **new branch** *%USERNAME-new\_feature.*
6. Add *README.md* file to your *%USERNAME-new\_feature* branch
7. Check your repo with *git status* command
8. Add .gitignore file to ignore all files whose name begins “.”
9. Commit and push changes to github repo.
10. Create **Pull Request** to the *dev* branch.
11. **Merge** your branch with the *dev*branch and create **Pull Request** to the *master(main)* branch**. Merge** *dev* with *master(main)*.
12. Checkout to **%USERNAME-new\_feature,** make changes in README.md and commit them**. Revert** last *commit* in **%USERNAME-new\_feature** branch**.**
13. Check your repo with *git log* command, create *log.txt* file in **master(main) branch** and save “git log” output in it.
14. **Delete** local and remote branch *%USERNAME-new\_feature.*
15. Add all used command to the *git\_commands.md* file in the *dev* branch.
16. Send the link to your Git Repository to your mentor via private Skype message.

For convenience, please follow to the folder structure on the picture. 

**EXTRA (optional)\*:**

1. Read about GitHub Actions. What environment variables can be created?
2. Create your workflow, what consists of two jobs and contain requirements according the scheme below:

|  |  |
| --- | --- |
| Workflow variables should contain two variables:   1. ***DEPLOY\_VER*** - should contains SHA; 2. ***YEAR*** - any year as you choose | |
| First job should:  Step should:   1. Print the list of files/directories in your github repository. 2. Print content of your log.txt file. 3. Print: “Hello from “*your* ***DEPLOY\_VER*** *variable’s content***”** commit” | Second job should:   1. Run after the First job is finished. 2. Contain variable ***MONTH***- any month as you choose   Step should:   1. Contain variable ***DAY\_\_OF\_THE\_MONTH*** - any day number as you choose. 2. Print the system date and time 3. Print your variable’s content:  “Day - “***DAY\_\_OF\_THE\_MONTH***”;   Month - “ ***MONTH***”;  Year - “***YEAR***”.”   * Imagine that you keep in secret your favorite day of week (***FAVORITE\_DAY\_OF\_WEEK***) and don’t want to share it with anyone. So where will you define it?   Print: “My favorite day of week is “content of ***FAVORITE\_DAY\_OF\_WEEK***””  What result did you get and why? |