

FACULTY OF COMPUTERS, INFORMATICS AND MICROELECTRONICS

TECHNICAL UNIVERSITY OF MOLDOVA

DIGITAL INTERACTIVE MEDIA AND SOFTWARE DEVELOPMENT

LABORATORY WORK #1

Version Control Systems and Server Configuration

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Laboratory work #1

Purpose of the laboratory

Gain knowledge about basics of event-driven programming, understanding of window's class and basic possibilities of Win32 API. Also she will try to understand and process OS messages.

Laboratory Work Requirements

- **Basic Level (grade 5 - 6) you should be able to:**
 - a) Create a Windows application
 - b) In the middle of the window should be present the following text: "Done with Pride and Prejudice by student name". Replace student name with your name.
 - c) On windows resize, text should reflow and be in window's middle (vertically and horizontally)
- **Normal Level (grade 7 - 8) you should be able to:**
 - a) Realize the tasks from *Basic Level*.
 - b) Add 2 buttons to window: one with default styles, one with custom styles (size, background, text color, font family/size)
 - c) Add 2 text elements to window: one with default styles, one with custom styles (size, background, text color, font family/size)
- **Advanced Level (grade 9 - 10) you should be able to:**
 - a) Realize the tasks from *Normal Level*.
 - b) Make elements to interact or change other elements (2 different interactions) (ex. on button click, change text element color or position)
 - c) Change behavior of different window actions (at least 3). For ex.: on clicking close button, move window to a random location on display working space

Laboratory Work Implementation

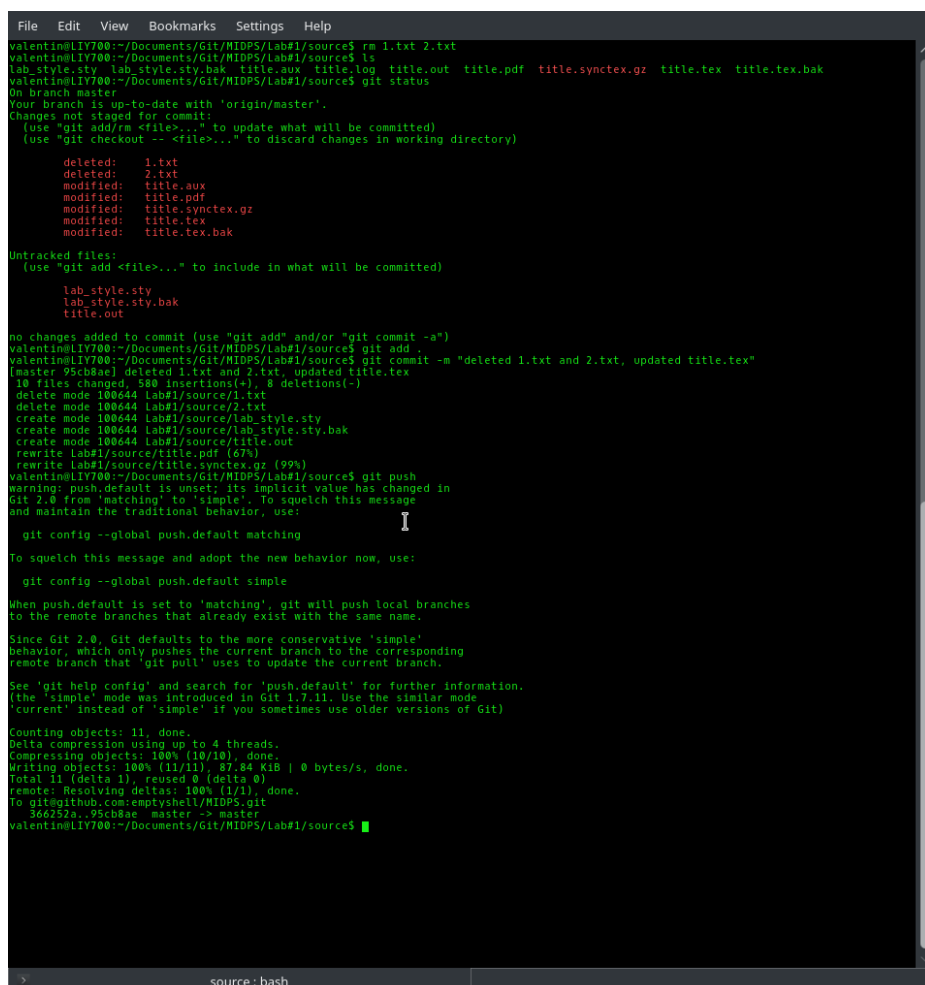
Tasks and Points

- Clone the repository to the local machine
- Add .gitignore and README.md files
- Create folder MIDPS
- Create first folder (Lab#1)
- Make a Commit when it's required
- Create a readme file
- Create the report

Laboratory work analysis

<https://github.com/emptyshell/MIDPS.git>

Prove your work with screens



```
File Edit View Bookmarks Settings Help
valentiml1v700:~/Documents/Git/MIDPS/Lab#1/source$ rm 1.txt 2.txt
valentiml1v700:~/Documents/Git/MIDPS/Lab#1/source$ ls
lab_style.sty lab_style.sty.bak title.aux title.log title.out title.pdf title.synctex.gz title.tex title.tex.bak
valentiml1v700:~/Documents/Git/MIDPS/Lab#1/source$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        deleted:    1.txt
        deleted:    2.txt
        modified:   title.aux
        modified:   title.pdf
        modified:   title.synctex.gz
        modified:   title.tex
        modified:   title.tex.bak

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        lab_style.sty
        lab_style.sty.bak
        title.out

no changes added to commit (use "git add" and/or "git commit -a")
valentiml1v700:~/Documents/Git/MIDPS/Lab#1/source$ git add
valentiml1v700:~/Documents/Git/MIDPS/Lab#1/source$ git commit -m "deleted 1.txt and 2.txt, updated title.tex"
[master 95cb8ae] deleted 1.txt and 2.txt, updated title.tex
10 files changed, 580 insertions(+), 8 deletions(-)
delete mode 100644 Lab#1/source/1.txt
delete mode 100644 Lab#1/source/2.txt
create mode 100644 Lab#1/source/lab_style.sty
create mode 100644 Lab#1/source/lab_style.sty.bak
create mode 100644 Lab#1/source/title.out
rewrite Lab#1/source/title.pdf (67%)
rewrite Lab#1/source/title.synctex.gz (99%)
valentiml1v700:~/Documents/Git/MIDPS/Lab#1/source$ git push
warning: push.default is unset; its implicit value has changed in
Git 2.0 from 'matching' to 'simple'. To squelch this message
and maintain the traditional behavior, use:

    git config --global push.default matching

To squelch this message and adopt the new behavior now, use:

    git config --global push.default simple

When push.default is set to 'matching', git will push local branches
to the remote branches that already exist with the same name.

Since Git 2.0, Git defaults to the more conservative 'simple'
behavior, which only pushes the current branch to the corresponding
remote branch that 'git pull' uses to update the current branch.

See 'git help config' and search for 'push.default' for further information.
(the 'simple' mode was introduced in Git 1.7.11. Use the similar mode
'current' instead of 'simple' if you sometimes use older versions of Git)

Counting objects: 11, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (10/10), done.
Writing objects: 100% (11/11), 87.84 KiB | 0 bytes/s, done.
Total 11 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), done.
To git@github.com:emptyshell/MIDPS.git
366252a..95cb8ae master -> master
valentiml1v700:~/Documents/Git/MIDPS/Lab#1/source$
```

Conclusion

In this laboratory work I gained skills in using github, how to create an repository and how to connect a computer via ssh key to my github account. Using command line , and especially **git** command:

- a) How to clone a repository
- b) How to add, commit and push files to repository
- c) How to create a report in latex

Gained new skills in managing information in a report and create it. Created files and folders from command line and committed them to repository.

References

- 1 Aldebran Robotics, *official page*, www.aldebaran.com/en
- 2 Timo Ojala, *Multiresolution gray-scale and rotation invariant texture classification with local binary patterns*, 2002
- 3 Biometric, www.biometricupdate.com/201501/history-of-biometrics