

**MEDII INTERACTIVE DE DEZVOLTARE
A PRODUSELOR SOFT**

LUCRARE DE LABORATOR nr.2

**VERSION CONTROL SYSTEMS ȘI MODUL DE SETARE
AL UNUI SERVER**

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Obiectivele lucrării

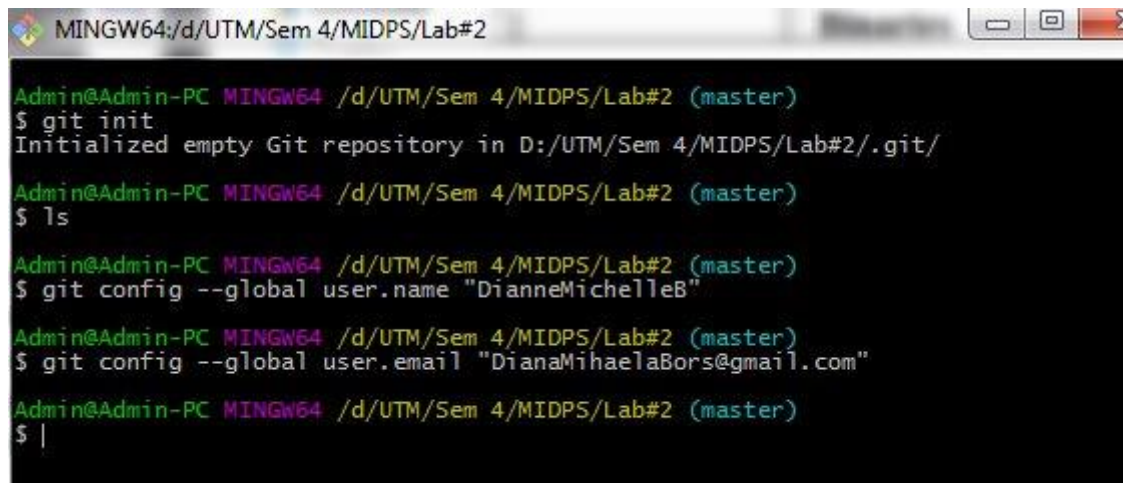
- Înțelegerea și folosirea CLI (basic level)
- Administrarea remote a mașinilor linux machine folosind SSH (remote code editing)
- Version Control Systems (git || mercurial || svn)
- Compileaza codul C/C++/Java/Python prin intermediul CLI, folosind compilatoarele gcc/g++/javac/python

Efectuarea lucrării de laborator

Task-uri implementate:

Normal Level (nota 7 || 8):

- initializeaza un nou repository
- configureaza-ti VCS



```
MINGW64:/d/UTM/Sem 4/MIDPS/Lab#2
Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS/Lab#2 (master)
$ git init
Initialized empty Git repository in D:/UTM/Sem 4/MIDPS/Lab#2/.git/
Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS/Lab#2 (master)
$ ls
Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS/Lab#2 (master)
$ git config --global user.name "DianneMichelleB"
Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS/Lab#2 (master)
$ git config --global user.email "DianaMihaelaBors@gmail.com"
Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS/Lab#2 (master)
$ |
```

- crearea branch-urilor (creeaza cel putin 2 branches)
- commit pe ambele branch-uri (cel putin 1 commit per branch)

```
Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (master)
$ git status
On branch master
nothing to commit, working directory clean

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (master)
$ git branch branch1

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (master)
$ git branch branch2

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (master)
$ git branch
  branch1
  branch2
* master

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (master)
$ git checkout branch1
Switched to branch 'branch1'

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch1)
$ echo "This is first branch" >>notice.txt

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch1)
$ git status
On branch branch1
Untracked files:
  (use "git add <file>..." to include in what will be committed)

        notice.txt

nothing added to commit but untracked files present (use "git add" to track)

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch1)
$ git add .
warning: LF will be replaced by CRLF in notice.txt.
The file will have its original line endings in your working directory.

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch1)
$ git commit -m "first branch notice"
[branch1 6c6a6ce] first branch notice
warning: LF will be replaced by CRLF in notice.txt.
The file will have its original line endings in your working directory.
1 file changed, 1 insertion(+)
 create mode 100644 notice.txt

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch1)
$ git status
On branch branch1
nothing to commit, working directory clean
```

```

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch1)
$ git checkout branch2
Switched to branch 'branch2'

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch2)
$ echo "This is the second branch" >> notice2.txt

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch2)
$ git status
On branch branch2
Untracked files:
  (use "git add <file>..." to include in what will be committed)

        notice2.txt

nothing added to commit but untracked files present (use "git add" to track)

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch2)
$ git add .
warning: LF will be replaced by CRLF in notice2.txt.
The file will have its original line endings in your working directory.

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch2)
$ git status
On branch branch2
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        new file:   notice2.txt

Admin@Admin-PC MINGW64 /d/UTM/Sem 4/MIDPS (branch2)
$ git commit -m "A message on the second branch"
[branch2 6327bb6] A message on the second branch
warning: LF will be replaced by CRLF in notice2.txt.
The file will have its original line endings in your working directory.
1 file changed, 1 insertion(+)
create mode 100644 notice2.txt

```

Concluzie

În urma efectuării lucrării de laborator la tema “*Version Control Systems și modul de setare al unui server*” am înșușit un nou soft pentru managementul codului – GIT.

Am efectuat operațiuni în cadrul GIT, precum crearea unui repozitoriu și inițializarea lui, configurarea softului și procesele de commit al schimbărilor, reset, creare a branchurilor.

Bibliografie

1. Îndrumar metodic pentru lucrările de laborator la MIDPS
2. <https://github.com/Kunena/Kunena-Forum/wiki/Create-a-new-branch-with-git-and-managebranches>
3. <https://git-scm.com/docs/git-reset>
4. <https://help.github.com/articles/resolving-a-merge-conflict-from-the-command-line/>