Министерство науки и высшего образования Российской Федерации

Федеральное государственное автономное образовательное учреждение высшего образования

«Национальный исследовательский университет ИТМО»

Факультет Программной инженерии и компьютерной техники

Лабораторная работа по

Основам программной инженерии №2

Вариант 221

Работу выполнила:

Касьяненко В.М.

Группа:

P3220

Санкт-Петербург,

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## Текст задания

Изображение выглядит как текст, снимок экрана, Шрифт, документ

Автоматически созданное описание

## Git

$ mkdir git

$ cd git

$ git init

Initialized empty Git repository

$ git config --local user.name "red"

$ git config --local user.email red@mail.ru

$ cp ../data/commit0/\* ./

$ git add .

$ git commit -m "r0"

[master (root-commit) f7c898b] r0

4 files changed, 64 insertions(+)

create mode 100644 B.java

create mode 100644 E.java

create mode 100644 F.java

create mode 100644 G.java

$ cp ../data/commit1/\* ./

$ git add .

$ git commit -m "r1"

[master bf27e31] r1

3 files changed, 12 insertions(+)

$ git config --local user.name "blue"

$ git config --local user.email blue@mail.ru

$ git checkout -b "branch2"

Switched to a new branch 'branch2'

$ cp ../data/commit2/\* ./

$ git add .

$ git commit -m "r2"

[branch2 4a18d5d] r2

3 files changed, 12 deletions(-)

$ git checkout -b "branch3"

Switched to a new branch 'branch3'

$ cp ../data/commit3/\* ./

$ git add .

$ git commit -m "r3"

[branch3 ed82f4f] r3

1 file changed, 1 insertion(+), 1 deletion(-)

$ git checkout branch2

Switched to branch 'branch2'

$ cp ../data/commit4/\* ./

$ git add .

$ git commit -m "r4"

[branch2 23cd970] r4

3 files changed, 12 insertions(+)

$ cp ../data/commit5/\* ./

$ git add .

$ git commit -m "r5"

[branch2 0a61e04] r5

3 files changed, 12 insertions(+)

$ cp ../data/commit6/\* ./

$ git add .

$ git commit -m "r6"

[branch2 070384d] r6

3 files changed, 12 insertions(+)

$ cp ../data/commit7/\* ./

$ git add .

$ git commit -m "r7"

[branch2 7c5de8e] r7

3 files changed, 12 insertions(+)

$ git checkout branch3

Switched to branch 'branch3'

$ cp ../data/commit8/\* ./

$ git add .

$ git commit -m "r8"

[branch3 e3e8c82] r8

3 files changed, 13 insertions(+), 1 deletion(-)

$ git checkout master

Switched to branch 'master'

$ git config --local user.name "red"

$ git config --local user.email red@mail.ru

$ cp ../data/commit9/\* ./

$ git add .

$ git commit -m "r9"

[master 8e57f17] r9

3 files changed, 13 insertions(+), 1 deletion(-)

$ git checkout branch3

Switched to branch 'branch3'

$ git config --local user.name "blue"

$ git config --local user.email blue@mail.ru

$ cp ../data/commit10/\* ./

$ git add .

$ git commit -m "r10"

[branch3 0c38f9a] r10

3 files changed, 12 insertions(+)

$ git checkout branch2

Switched to branch 'branch2'

$ cp ../data/commit11/\* ./

$ git add .

$ git commit -m "r11"

[branch2 826399e] r11

3 files changed, 12 insertions(+)

$ git checkout branch3

Switched to branch 'branch3'

$ git merge branch2

# resolving conflicts in text editor

$ git add .

$ git merge --continue

[branch3 f78a604] Merge branch 'branch2' into branch3

$ cp ../data/commit12/\* ./

$ git add .

$ git commit -m "r12"

[branch3 3b4b3c8] r12

4 files changed, 51 insertions(+), 7 deletions(-)

$ git config --local user.name "red"

$ git config --local user.email red@mail.ru

$ git checkout master

Switched to branch 'master'

$ git merge branch3

# resolving conflicts in text editor

$ git add .

$ git merge --continue

[master fdf3726] Merge branch 'branch3'

$ cp ../data/commit13/\* ./

$ git add .

$ git commit -m "r13"

[master 2702bb4] r13

3 files changed, 62 insertions(+), 14 deletions(-)

$ cp ../data/commit14/\* ./

$ git add .

$ git commit -m "r14"

[master e2a752b] r14

4 files changed, 16 insertions(+)

## Subversion

$ export SVN\_EDITOR=vim

$ mkdir -p $HOME/svnrepos/

$ svnadmin create $HOME/svnrepos/repo

$ svn mkdir file:///$HOME/svnrepos/repo/trunk file:///$HOME/svnrepos/repo/branches file:///$HOME/svnrepos/repo/tags -m "Create directory structure."

Committing transaction...

Committed revision 1.

$ svn checkout file:///$HOME/svnrepos/repo/trunk work

Checked out revision 1.

$ cd work

$ cp ../data/commit0/\* .

$ svn add \*

A B.java

A E.java

A F.java

A G.java

$ svn commit -m "r0" --username=red

Adding B.java

Adding E.java

Adding F.java

Adding G.java

Transmitting file data ....done

Committing transaction...

Committed revision 2.

$ cp ../data/commit1/\* .

$ svn commit -m "r1" --username=red

Sending B.java

Sending E.java

Sending F.java

Transmitting file data ...done

Committing transaction...

Committed revision 3.

$ svn copy file:///$HOME/svnrepos/repo/trunk file:///$HOME/svnrepos/repo/branches/branch2 -m "Creating branch2"

Committing transaction...

Committed revision 4.

$ svn checkout file:///$HOME/svnrepos/repo/branches/branch2

A branch2\B.java

A branch2\E.java

A branch2\F.java

A branch2\G.java

Checked out revision 4.

$ cd branch2/

$ cp ../../data/commit2/\* .

$ svn commit -m "r2" --username=blue

Sending B.java

Sending E.java

Sending F.java

Transmitting file data ...done

Committing transaction...

Committed revision 5.

$ svn copy file:///$HOME/svnrepos/repo/branches/branch2 file:///$HOME/svnrepos/repo/branches/branch3 -m "Creating branch3"

Committing transaction...

Committed revision 6.

$ svn checkout file:///$HOME/svnrepos/repo/branches/branch3

A branch3\B.java

A branch3\E.java

A branch3\F.java

A branch3\G.java

Checked out revision 6.

$ cd branch3

$ cp ../../../data/commit3/\* .

$ svn commit -m "r3" --username=blue

Sending F.java

Transmitting file data .done

Committing transaction...

Committed revision 7.

$ cd ..

$ svn checkout file:///$HOME/svnrepos/repo/branches/branch2

A branch2\B.java

A branch2\E.java

A branch2\F.java

A branch2\G.java

Checked out revision 7.

$ cp ../../data/commit4/\* .

$ svn commit -m "r4" --username=blue

Sending B.java

Sending E.java

Sending F.java

Transmitting file data ...done

Committing transaction...

Committed revision 8.

$ cp ../../data/commit5/\* .

$ svn commit -m "r5" --username=blue

Sending B.java

Sending E.java

Sending F.java

Transmitting file data ...done

Committing transaction...

Committed revision 9.

$ cp ../../data/commit6/\* .

$ svn commit -m "r6" --username=blue

Sending B.java

Sending E.java

Sending F.java

Transmitting file data ...done

Committing transaction...

Committed revision 10.

$ cp ../../data/commit7/\* .

$ svn commit -m "r7" --username=blue

Sending B.java

Sending E.java

Sending F.java

Transmitting file data ...done

Committing transaction...

Committed revision 11.

$ cd branch3

$ svn checkout file:///$HOME/svnrepos/repo/branches/branch3

A branch3\B.java

A branch3\E.java

A branch3\F.java

A branch3\G.java

Checked out revision 11.

$ cp ../../../data/commit8/\* .

$ svn commit -m "r8" --username=blue

Sending B.java

Sending E.java

Sending F.java

Transmitting file data ...done

Committing transaction...

Committed revision 12.

$ cd ../..

$ svn checkout file:///$HOME/svnrepos/repo/trunk

A trunk\B.java

A trunk\E.java

A trunk\F.java

A trunk\G.java

Checked out revision 12.

$ cp ../data/commit9/\* .

$ svn commit -m "r9" --username=red

Sending B.java

Sending E.java

Sending F.java

Transmitting file data ...done

Committing transaction...

Committed revision 13.

$ cd branch2/branch3

$ svn checkout file:///$HOME/svnrepos/repo/branches/branch3

U branch3\B.java

U branch3\E.java

U branch3\F.java

Checked out revision 13.

$ cp ../../../data/commit10/\* .

$ svn commit -m "r10" --username=blue

Sending B.java

Sending E.java

Sending F.java

Transmitting file data ...done

Committing transaction...

Committed revision 14.

$ cd ..

$ svn checkout file:///$HOME/svnrepos/repo/branches/branch2

U branch2\B.java

U branch2\E.java

U branch2\F.java

Checked out revision 14.

$ cp ../../data/commit11/\* .

$ svn commit -m "r11" --username=blue

Sending B.java

Sending E.java

Sending F.java

Transmitting file data ...done

Committing transaction...

Committed revision 15.

$ cd branch3

$ svn checkout file:///$HOME/svnrepos/repo/branches/branch3

U branch3\B.java

U branch3\E.java

U branch3\F.java

Checked out revision 15.

$ svn up

Updating '.':

At revision 15.

$ svn merge file:///$HOME/svnrepos/repo/branches/branch2

--- Merging r6 through r15 into '.':

C B.java

C E.java

C F.java

--- Recording mergeinfo for merge of r6 through r15 into '.':

U .

Summary of conflicts:

Text conflicts: 3

# resolving conflicts

$ cp ../../../data/commit12/\* .

$ svn commit -m "r12" --username=blue

Sending .

Sending B.java

Sending E.java

Sending F.java

Sending G.java

Transmitting file data ....done

Committing transaction...

Committed revision 16.

$ cd ../..

$ svn checkout file:///$HOME/svnrepos/repo/trunk

U trunk\B.java

U trunk\E.java

U trunk\F.java

Checked out revision 16.

$ svn up

$ svn merge file:///$HOME/svnrepos/repo/branches/branch2

--- Merging r4 through r16 into '.':

C B.java

C E.java

C F.java

--- Recording mergeinfo for merge of r4 through r16 into '.':

U .

Summary of conflicts:

Text conflicts: 3

# resolving conflicts

$ cp ../data/commit13/\* .

$ svn commit -m "r13" --username=red

Sending .

Sending B.java

Sending E.java

Sending F.java

Sending G.java

Transmitting file data ....done

Committing transaction...

Committed revision 17.

$ cp ../data/commit14/\* .

$ svn commit -m "r14" --username=red

Sending B.java

Sending E.java

Sending F.java

Sending G.java

Transmitting file data ....done

Committing transaction...

Committed revision 18.

## Вывод

В ходе выполнения данной лабораторной работы были созданы и настроены репозитории SVN и Git в домашнем каталоге пользователя, а также была воспроизведена загрузка начальной ревизии файлов с исходным кодом в соответствии с выданным вариантом.