

Software Methods & Tools

Assignment 7

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1. Screenshot that shows the content the "Tetris" folder.

```
Q:\Desktop\repos>svn list -v file:///Desktop/repos/Tetris
1 smccr      Apr 30 17:54 ./
1 smccr      Apr 30 17:54 branches/
1 smccr      Apr 30 17:54 tags/
1 smccr      Apr 30 17:54 trunk/
```

2. Screenshot that shows the content of the source code folder in the repository.

```
Q:\Desktop\repos>svn list -v file:///Desktop/repos/Tetris/trunk/src/org/psnbtech
1 smccr      Apr 30 17:54 ./
1 smccr      12449 Apr 30 17:54 BoardPanel.java
1 smccr      3845 Apr 30 17:54 Clock.java
1 smccr      6367 Apr 30 17:54 SidePanel.java
1 smccr      14160 Apr 30 17:54 Tetris.java
1 smccr      8717 Apr 30 17:54 TileType.java
```

3. Screenshot to show the three working copies of the Tetris application

```
Q:\Desktop>svn checkout file:///Desktop/repos/Tetris/trunk TetrisTom
A      TetrisTom\src
A      TetrisTom\src\org
A      TetrisTom\src\org\psnbtech
A      TetrisTom\src\org\psnbtech\BoardPanel.java
A      TetrisTom\src\org\psnbtech\Clock.java
A      TetrisTom\src\org\psnbtech\SidePanel.java
A      TetrisTom\src\org\psnbtech\Tetris.java
A      TetrisTom\src\org\psnbtech\TileType.java
Checked out revision 1.

Q:\Desktop>svn checkout file:///Desktop/repos/Tetris/trunk TetrisSusan
A      TetrisSusan\src
A      TetrisSusan\src\org
A      TetrisSusan\src\org\psnbtech
A      TetrisSusan\src\org\psnbtech\BoardPanel.java
A      TetrisSusan\src\org\psnbtech\Clock.java
A      TetrisSusan\src\org\psnbtech\SidePanel.java
A      TetrisSusan\src\org\psnbtech\Tetris.java
A      TetrisSusan\src\org\psnbtech\TileType.java
Checked out revision 1.

Q:\Desktop>svn checkout file:///Desktop/repos/Tetris/trunk TetrisJohn
A      TetrisJohn\src
A      TetrisJohn\src\org
A      TetrisJohn\src\org\psnbtech
A      TetrisJohn\src\org\psnbtech\BoardPanel.java
A      TetrisJohn\src\org\psnbtech\Clock.java
A      TetrisJohn\src\org\psnbtech\SidePanel.java
A      TetrisJohn\src\org\psnbtech\Tetris.java
A      TetrisJohn\src\org\psnbtech\TileType.java
Checked out revision 1.
```

4. Screenshots for different events by performing the different operations.

a. EVENT #1:

Event	Repository	Tom	Susan	John
1	2	1	1	2
Description	<p>Since John updated Tetris.java file, so the version of that file was updated from 1 to 2. But the version for Tom and Susan was still 1 (i.e unchanged). After John committed it, the version in the repository also changed to 2.</p> <p>No conflicts observed.</p>			

Susan's Working Directory:

```
Q:\Desktop\TetrisJohn\trunk\src\org\psnbtech>cd Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>svn status -v
      1      1 smccr      .
      1      1 smccr      BoardPanel.java
      1      1 smccr      Clock.java
      1      1 smccr      SidePanel.java
      1      1 smccr      Tetris.java
      1      1 smccr      TileType.java
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>
```

b. EVENT #2:

Event	Repository	Tom	Susan	John
2	2	1	1	2
Description	<p>Susan has synchronized her local directory with the repository, so her files have updated to version 2.</p> <p>No version conflicts observed</p>			

Susan's Working Directory:

```
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>svn update
Updating '.':
U    Tetris.java
Updated to revision 2.
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>svn status -v
      2      2 smccr      .
      2      1 smccr      BoardPanel.java
      2      1 smccr      Clock.java
      2      1 smccr      SidePanel.java
      2      2 smccr      Tetris.java
      2      1 smccr      TileType.java
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>
```

c. EVENT #3:

Event	Repository	Tom	Susan	John
3	3	3	2	2
Description	Tom edited the file, and committed the changes. Conflict observed because Tom had not updated his local directory. I used the merge technique to update Tom's local directory, and committed the files again to resolve any conflicts.			

Susan's Working Directory:

```
Q:\Desktop\TetrisJohn\trunk\src\org\psnbtech>cd Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>svn status -v
      2      2 smccr      .
      2      1 smccr      BoardPanel.java
      2      1 smccr      Clock.java
      2      1 smccr      SidePanel.java
      2      2 smccr      Tetris.java
      2      1 smccr      TileType.java
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>
```

d. EVENT #4:

Clock.java				
Event	Repository	Tom	Susan	John
4	4	4	2	1
Description	Tom edited his changes to Clock.java, committed them. Hence the clock.java in the repository and Tom's working directory got changed. No one else updated their working directory so no changes were observed. No conflicts observed.			

Tetris.java				
Event	Repository	Tom	Susan	John
4	3	3	2	2
Description	No changes made to Tetris.java, so no updation in version history for any directory. No conflicts observed.			

Susan's Working Directory:

```
Q:\Desktop\TetrisTom\trunk\src\org\psnbtech>cd Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>svn status -v
      2      2 smccr      .
      2      1 smccr      BoardPanel.java
      2      1 smccr      Clock.java
      2      1 smccr      SidePanel.java
      2      2 smccr      Tetris.java
      2      1 smccr      TileType.java
```

e. EVENT #5:

Clock.java				
Event	Repository	Tom	Susan	John
5	4	4	2	1
Description	Only Tom synchronized his local directory with the repository, hence his files got updated. No one else's files were updated to a new version. No conflicts observed.			

Tetris.java				
Event	Repository	Tom	Susan	John
5	3	4	2	2
Description	Tetris.java file was not updated, hence no version changes. No conflicts observed.			

Susan's Working Directory:

```
Q:\Desktop\TetrisJohn\trunk\src\org\psnbtech>cd Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>svn status -v
      2      2 smccr      .
      2      1 smccr      BoardPanel.java
      2      1 smccr      Clock.java
      2      1 smccr      SidePanel.java
      2      2 smccr      Tetris.java
      2      1 smccr      TileType.java
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>
```

f. EVENT #6:

Clock.java				
Event	Repository	Tom	Susan	John
5	4	4	4	4
Description	All versions updated to the latest one. No conflicts observed.			

Tetris.java				
Event	Repository	Tom	Susan	John
5	4	4	4	4
Description	All versions updated to the latest one. No conflicts observed.			

Susan's Working Directory:

```
Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>svn update
Updating '.':
U    Clock.java
U    Tetris.java
Updated to revision 4.

Q:\Desktop\TetrisSusan\trunk\src\org\psnbtech>svn status -v
      4      4 smccr      .
      4      1 smccr      BoardPanel.java
      4      4 smccr      Clock.java
      4      1 smccr      SidePanel.java
      4      3 smccr      Tetris.java
      4      1 smccr      TileType.java
```