Contribution: VLC for Android

Létal Vojtěch

Czech Technical University Faculty of electrotechnnical engeneering Open Informatics

May 10, 2014

VideoLan organization



About the organization

A project and a non-profit organization, composed of volunteers, developing and promoting free, open-source multimedia solutions.

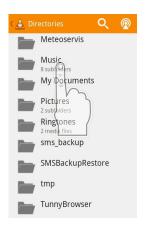
Main projects

- VLC Media Player (desktop, mobile versions...)
- VLMC (media center)
- DVBlast (streaming application)
- x264 (video convertor)

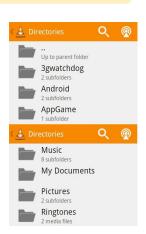
Well so what will I do?

Bug #9727 from bugtracer

VLC for Android does not save current position in folder mode.







Solution

Involved classes

- DirectoryAdapter (474 lines)
- DirectoryViewFragment (215 lines)

Both classes are quiet messy without any defined order. At first I thought that the bug could not be easily resolved.

Elegant solution

A method browse(String directoryName) now returns an integer instead of just a boolean. The integer represents position in a newly created list to which a view should be set or -1 if the opening was not successfull.

Statistics

• Lines removed: 14

• Lines added: 38

• Attempts to submit: 3



The end

```
diff --git a/vic-android/src/arg/videolan/vic/gui/DirectoryAdapter.java b/vic-android/src/arg/videolan/vic/gui/DirectoryAdapter.java
*** Evit-amoniarr/pry/secsion/vic
00 -25.6 +25.7 00 import java.net.URI:
import java.net.URISystamicospino;
import java.util.ArrayList;
import java.util.Collection;
                                                                                                                                                                                                                                                                                                                                                                   import java.met.UFISyntamException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.ListIterator;
import java.util.reges.Futtern;
 import (ava.util.regev.Pattern:
mport org. visecian. IIEVIC.LIEVIC.;
80 -280,5 +209,10 80 public class DirectoryAdapter extends BaseAdapter (
return false;
                                                                                                                                                                                                                                                                                                                                                                                            return false:
                                                                                                                                                                                                                                                                                                                                                                                   public int getChildPosition(DirectoryAdapter.Node child){
   if(child = mull)
      return -1;
                                                                                                                                                                                                                                                                                                                                                                                            ListTerator=DirectoryAdapter.Mode= it = children.listTerator();
while(it.hasMest()){
    DirectoryAdapter.Mode node = it.eaxt();
    if(child.egasls(node)) return it.previousIndex();
                                                                                                                                                                                                                                                                                                                                                                                             return -1;
                  public DirectoryAdapter.Node ensureExists(String _n) {
    for(DirectoryAdapter.Node n : this.children) {
        if(Util.rullEquals(n.mame, _n)) return n;
}
                                                                                                                                                                                                                                                                                                                                                                                     public DirectoryAdapter.Node ensureExists(String n) {
   for(DirectoryAdapter.Node n : this.childree) {
      if(Util.multEquals(n.name, n)) return n;
}
 80 -331.13 +345.23 80 public class DirectoryAdapter extends DaseAdapter (
                                                                                                                                                                                                                                                                                                                                                                                     return v;
 - public boolean browse(int position) (
                                                                                                                                                                                                                                                                                                                                                                              * greturn position of the current directory in a newly formed listview * or -1 if opening not successful * */
                                                                                                                                                                                                                                                                                                                                                                             public int browne(int position) i
                    DirectoryAdapter.Mode selectedNode = mCurrentNode.children.get(position);
if(selectedNode.isFile()) return false;
return browns(selectedNode.name);
                                                                                                                                                                                                                                                                                                                                                                                       iic int browne(int position) {
    SurectoryAdapter.Node selectedSinde = mCurrectNode.children.get(position);
    if(selectedNode.ifile()) return https://doi.org/10.1000/j.
    return brownes(selectedNode.name);
     public boolean browne(String directoryName) 4
                                                                                                                                                                                                                                                                                                                                                                             " greturn position of the current directory in a newly formed listview " or -1 if opening not successful " " " . " !
                                                                                                                                                                                                                                                                                                                                                                           public int browse(String directoryName) {
   if (this.mCurrentDir == null) {
# 1998.MUTTENTEXT == MM.II (
// We're on the storage list
String storages] = Uil.jerMediaDirectories();
00 -363.18 +387.28 00 public class DirectoryAdapter extends BaseMapter (
                                                                                                                                                                                                                                                                                                                                                                                             // We're an the storage List
String storages[] = Util.getMediaDirectories();
                          ) catch(UESSystamException e) {
    Log.e(TML "URISystamException in browse(1", e))
    return false;
} catch(MLIPsinterException e) {
                                                                                                                                                                                                                                                                                                                                                                                             } catch(URISyntxxSuception e) (
   Log.e(TAG, "URISyntamException in browsel)", el:
   return '1;
} catch(URISyntamException e) {
                                    Log.e(TMG. "MullPointerException in browse()", e);
return false;
                                                                                                                                                                                                                                                                                                                                                                                                      Log.e(TAG, "MullPainterException in browse()", e);
return -1;
                  Log.d(TAG, "Browsing to " + this.mCurrentDir);
                                                                                                                                                                                                                                                                                                                                                                                     Log.d(TAG. "Browsing to " + this.mCurrentDir):
                                                                                                                                                                                                                                                                                                                                                                                     six current()riskition = 0;
rife(excten,baseaquit*; ")+|
current()riskition = &creentbole parent, getChil@oxition(currentbole);
corrent()riskition = &creentbole parent, getChil@oxition(currentbole);
ledge (furnation) = this Accurrentbole, parent;
this Accurrentbole = this Accurrentbole, parent;
this Accurrentbole = this Accurrentbole, parent;
ledge (furnation) = this Accurrentbole, parent;
ledge (furnation) = this Accurrentbole, parent, getChil@oxition.currentbole);
ledge (furnation) = this Accurrentbole, parent, getChildentbole);
ledge (furnation) = this Accurrentbole, parentbole);
ledge (furnation) = this Accurrentbole, parentbole, parentbole, parentbole, p

    if(directoryName.equals(".."))

                            this.eCurrentNode = this.eCurrentNode.parent;
                            * (
this.mCurrentNode = this.mCurrentNode.getChildNode(directoryName);
 00 -384,7 +410,7 00 public class DirectoryAdapter extends BaseAdapter (
                    this.motifyOutuSetChanged();
return true;
                                                                                                                                                                                                                                                                                                                                                                                     this.netifyDetaSetChanged();
return (currentDirPosition on -1) ? 0 : currentDirPosition.
          public boolean isChildFile(int mosttom) A
diff --git givic-andraid/arc/org/aidelan/aic/gui/Director/Dimfragment.ison bivic-andraid/arc/org/aideslan/aic/gui/Director/Dimfragment.ison
gOverride
public void onListItenClick(ListViev \, Viev v, int p, long id) {
    Sockean success = mDirectoryAdapter.browse(s);
    If(!succes) { /* Clicked on a media file */
                                                                                                                                                                                                                                                                                                                                                                              public void onListItemClick(ListView L. View v, int p, long id) (
                                                                                                                                                                                                                                                                                                                                                                                       if(success < 0) /* Clicked on a media file */
                            openMediaFile(s):
          public boolean isRoetDirectory () {
00 -163.7 +165.10 00 public class DirectoryViewFragment extends SherlockListFragment implements ISort
          public void showParentDirectory() (
#DirectoryAdapter.browse(".."):
                                                                                                                                                                                                                                                                                                                                                                              public veid shewParentDirectory() {
   int success = mDirectoryAdapter.brox
          private void openMediaFile(int p) (
                                                                                                                                                                                                                                                                                                                                                                              private void openMediaFile(int p) {
```