JavaScript is disabled on your browser.

* [Package](http://docs.google.com/com/learningtree/crs471/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/MusicDataAccessor.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-all.html)
* [Prev Class](http://docs.google.com/com/learningtree/crs471/MainFrame.html)
* [Next Class](http://docs.google.com/com/learningtree/crs471/MusicDetailsDialog.html)
* [Frames](http://docs.google.com/index.html?com/learningtree/crs471/MusicDataAccessor.html)
* [No Frames](http://docs.google.com/MusicDataAccessor.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* [Field](#3znysh7) |
* [Constr](#2et92p0) |
* [Method](#tyjcwt)
* Detail:
* [Field](#1t3h5sf) |
* [Constr](#1ksv4uv) |
* [Method](#2jxsxqh)

com.learningtree.crs471

## Class MusicDataAccessor

* java.lang.Object
  + com.learningtree.crs471.MusicDataAccessor
* public class MusicDataAccessor  
  extends Object  
  This class implements a trivial database for music recordings. Methods are available to get a list of the music categories and a list of recordings.  
  Usage Example:  
    
    
   // create and load the data accessor  
   MusicDataAccessor myDataAccessor = new MusicDataAccessor();  
    
   // get a list of available categories;  
   ArrayList<String> cats = myDataAccessor.getCategories();  
   ...  
    
   // get a list of jazz recordings  
   ArrayList<MusicRecording> jazzRecordingList = myDataAccessor.getRecordings("Jazz");  
   ...  
    
    
    
   Author: 471 Development Team

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + protected ArrayList<String> | * + [**categories**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#categories) The list of categories |
| * + protected HashSet<String> | * + [**categorySet**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#categorySet) Internal helper |
| * + protected HashMap<String,ArrayList<[MusicRecording](http://docs.google.com/com/learningtree/crs471/MusicRecording.html)>> | * + [**dataTable**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#dataTable) A HashMap/hashtable of the recordings. |
| * + protected static String | * + [**FILE\_NAME**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#FILE_NAME) The name of the database file to read/write. |
| * + protected static Logger | * + [**logger**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#logger) Logger for the messages |
| * + protected ArrayList<[MusicRecording](http://docs.google.com/com/learningtree/crs471/MusicRecording.html)> | * + [**recentRecordingList**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#recentRecordingList) This holds a list of the recent recordings that have been added using the addRecording() method. |
| * + protected static String | * + [**RECORD\_SEPARATOR**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#RECORD_SEPARATOR) Marker used to separate the music recordings in the data file. |

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [**MusicDataAccessor**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#MusicDataAccessor())() Constructs the data accessor and calls the load() method to load data. |

### Method SummaryMethods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + ArrayList<String> | * + [**getCategories**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#getCategories())() Returns a sorted list of the categories for the recordings. |
| * + ArrayList<[MusicRecording](http://docs.google.com/com/learningtree/crs471/MusicRecording.html)> | * + [**getRecordings**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#getRecordings(java.lang.String))(String category) Returns a sorted list of recordings that match a given category |
| * + protected void | * + [**load**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#load())() Loads the data from a storage device. |
| * + protected [Track](http://docs.google.com/com/learningtree/crs471/Track.html)[] | * + [**readTracks**](http://docs.google.com/com/learningtree/crs471/MusicDataAccessor.html#readTracks(java.io.BufferedReader,%20int))(BufferedReader inputFromFile, int numberOfTracks) Helper method for reading a given number of tracks from a Reader. |

### Methods inherited from class java.lang.Objectclone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Field Detail

#### FILE\_NAME protected static final String FILE\_NAME The name of the database file to read/write.See Also:[Constant Field Values](http://docs.google.com/constant-values.html#com.learningtree.crs471.MusicDataAccessor.FILE_NAME)

#### RECORD\_SEPARATOR protected static final String RECORD\_SEPARATOR Marker used to separate the music recordings in the data file.See Also:[Constant Field Values](http://docs.google.com/constant-values.html#com.learningtree.crs471.MusicDataAccessor.RECORD_SEPARATOR)

#### logger protected static Logger logger Logger for the messages

#### dataTable protected HashMap<String,ArrayList<[MusicRecording](http://docs.google.com/com/learningtree/crs471/MusicRecording.html)>> dataTable A HashMap/hashtable of the recordings. The key is the "category". The data stored for each key is an ArrayList which is the collection of music recordings.

#### recentRecordingList protected ArrayList<[MusicRecording](http://docs.google.com/com/learningtree/crs471/MusicRecording.html)> recentRecordingList This holds a list of the recent recordings that have been added using the addRecording() method.

#### categories protected ArrayList<String> categories The list of categories

#### categorySet protected HashSet<String> categorySet Internal helper

### Constructor Detail

#### MusicDataAccessor public MusicDataAccessor() Constructs the data accessor and calls the load() method to load data.

### Method Detail

#### load protected void load() Loads the data from a storage device.

#### getCategories public ArrayList<String> getCategories() Returns a sorted list of the categories for the recordings.

#### getRecordings public ArrayList<[MusicRecording](http://docs.google.com/com/learningtree/crs471/MusicRecording.html)> getRecordings(String category) Returns a sorted list of recordings that match a given categoryParameters:category - the category for requested recordings. Returns:collection of MusicRecording objects

#### readTracks protected [Track](http://docs.google.com/com/learningtree/crs471/Track.html)[] readTracks(BufferedReader inputFromFile, int numberOfTracks) throws IOException Helper method for reading a given number of tracks from a Reader.Parameters:inputFromFile - the reader for the file we are readingnumberOfTracks - the number of tracks to read Returns:an array of Track objects Throws: IOException

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