rUglan documentation

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Contents

Class Hierarchy

Classes

- java.lang.Object
    -
        - is.mpg.ruglan.data.iCalParser
    - SQLiteOpenHelper
        - is.mpg.ruglan.data.rDataBase
    - is.mpg.ruglan.data.CalEvent
    - is.mpg.ruglan.data.Dabbi

Chapter 1

Package is.mpg.ruglan.data

Package Contents *Page*

Classes

1.1 Class CalEvent

Class representing Calendar Event for the project.

1.1.1 Declaration

public class CalEvent
extends java.lang.Object
implements java.io.Serializable

1.1.2 Constructor summary

CalEvent(String, String, String, Date, Date)

1.1.3 Method summary

equals(Object)
getColor()
getDateString()
getDescription()
getDurationString()

getEnd()
getFullCalendarEndDateString()
getFullCalendarStartDateString()
getLocation()
getName()
getStart()
toString()

1.1.4 Constructors

- **CalEvent**
  `public` **CalEvent**`(java.lang.String` **name**`, java.lang.String` **description**`, java.lang.String` **location**`, java.util.Date` **start**`, java.util.Date` **end**`)`

  – **Parameters**

    * `name` – Name of the event.
    * `description` – Description of the event.
    * `location` – Location of the event.
    * `start` – Start date of the event.
    * `end` – End date of the event.

1.1.5 Methods

- **equals**
  `public boolean` **equals**`(java.lang.Object` **arg0**`)`

- **getColor**
  `public java.lang.String` **getColor**`()`

  – **Returns** – s is a string representing a color that can be used as a parameter for backgroundColor in FullCalendar

- **getDateString**
  `public java.lang.String` **getDateString**`()`

  – **Returns** – A string on the form "d. M Y" describing the date of the event.

- **getDescription**
  `public java.lang.String` **getDescription**`()`

  – **Returns** – Description of the event.

- **getDurationString**
  `public java.lang.String` **getDurationString**`()`

  – **Returns** – A string on the form "HH:MM - HH:MM" describing the duration of the event.

- **getEnd**
  `public java.util.Date` **getEnd**`()`

  - **Returns** – End date of the event.

- **getFullCalendarEndDateString**
  `public java.lang.String` **getFullCalendarEndDateString**`()`
  - **Returns** – s is a string on the form "new Date(y, m, d, H, M)" that can be used as a parameter for date in FullCalendar

- **getFullCalendarStartDateString**
  `public java.lang.String` **getFullCalendarStartDateString**`()`
  - **Returns** – s is a string on the form "new Date(y, m, d, H, M)" that can be used as a parameter for date in FullCalendar

- **getLocation**
  `public java.lang.String` **getLocation**`()`
  - **Returns** – Location of the event.

- **getName**
  `public java.lang.String` **getName**`()`
  - **Returns** – Name of the event.

- **getStart**
  `public java.util.Date` **getStart**`()`
  - **Returns** – Start date of the event.

- **toString**
  `public java.lang.String` **toString**`()`

1.2 Class Dabbi

An interface for the database backend.

1.2.1 Declaration

public class Dabbi
extends java.lang.Object

1.2.2 Field summary

editor
prefs

1.2.3 Constructor summary

Dabbi()
Dabbi(Context)

1.2.4 Method summary

addCalEvents(CalEvent[])
clearEventsTable() Deletes all the events in the events table of the database.
getAllCalEvents()
getCalEvents(Date, Date)
getColor(String) A function to get the color value of an event.
refreshEventsTable()
refreshEventsTable(String) Refreshes the events in the CALEVENTS table.
runPrivateMethod(String) Runs a private method of the class if with the correct password.

1.2.5 Fields

- SharedPreferences **prefs**
- SharedPreferences.Editor **editor**

1.2.6 Constructors

- **Dabbi**
  `public` **Dabbi**`()`
- **Dabbi**
  `public` **Dabbi**`(Context` **context**`)`
  - **Parameters**
    - `context` – A non null android Context object.

1.2.7 Methods

- **addCalEvents**
  `public void` **addCalEvents**`(CalEvent[]` **calEvents**`)`
  - **Parameters**
    - `calEvents` – An array of CalEvents to be added.
- **clearEventsTable**
  `boolean` **clearEventsTable**`()`
  - **Description**
    Deletes all the events in the events table of the database.
- **getAllCalEvents**
  `public CalEvent[]` **getAllCalEvents**`()`
- **getCalEvents**
  `public CalEvent[]` **getCalEvents**`(java.util.Date` **start**`, java.util.Date` **end**`)`
  - **Parameters**

    - `start` – A Date object that is the earliest date we want to look at.
    - `end` – A Date object that is the latest time an CalEvent can start at so it is included in the return value.

- **getColor**
  `public int` **getColor**`(java.lang.String` **name**`)`
  - **Description**
    A function to get the color value of an event.
  - **Parameters**
    - `name` – The event name we want the color for.
  - **Returns** – The color value of name or -1 in case of failure.
- **refreshEventsTable**
  `public void` **refreshEventsTable**`() throws java.lang.Exception`
- **refreshEventsTable**
  `public void` **refreshEventsTable**`(java.lang.String` **iCalUrl**`) throws java.lang.Exception`
  - **Description**
    Refreshes the events in the CALEVENTS table.
- **runPrivateMethod**
  `public boolean` **runPrivateMethod**`(java.lang.String` **password**`)`
  - **Description**
    Runs a private method of the class if with the correct password.

1.3 Class iCalParser

Parser for iCalendars.

1.3.1 Declaration

public class iCalParser
extends

1.3.2 Constructor summary

iCalParser()

1.3.3 Method summary

calendarToEventList(String) Takes an iCal calendar string, and returns an array of string arrays each containing an event
doInBackground(String[])
getICalValue(String[], String) Takes an string array containing an iCal event, and returns the value of the type
parseCalendar(String) Takes a string containing an iCal calendar and returns a list of the events in the calendar
removeCR(String[]) Removes carriage returns in all string in an array of strings
urlToCalEvents(String)
urlToString(String) Takes an url and fetches its contents into a string

1.3.4 Constructors

- **iCalParser**
  `public` **iCalParser**`()`

1.3.5 Methods

- **calendarToEventList**
  `public static java.lang.String[][]` **calendarToEventList**`(java.lang.String` **calendar**`)`
  - **Description**
    Takes an iCal calendar string, and returns an array of string arrays each containing an event
  - **Parameters**
    - `calendar` – a string that contains an iCal calendar
  - **Returns** – an array of the events in the iCal calendar calendar.
- **doInBackground**
  `public CalEvent[]` **doInBackground**`(java.lang.String[]` **url**`)`
- **getICalValue**
  `public static java.lang.String` **getICalValue**`(java.lang.String[]` **event**, `java.lang.String` **type**`)`
  - **Description**
    Takes an string array containing an iCal event, and returns the value of the type
  - **Parameters**
    - `event` – the event to be parsed
    - `type` – the type of the value to be fished out
  - **Returns** – the value of the type type in the event
- **parseCalendar**
  `public static CalEvent[]` **parseCalendar**`(java.lang.String` **calendar**`)`

  - **Description**

    Takes a string containing an iCal calendar and returns a list of the events in the calendar
  - **Parameters**
    - `calendar` – A string of an iCal calendar
  - **Returns** – a list of the events in the calendar cal

- **removeCR**

  `public static java.lang.String[] removeCR(java.lang.String[] lines)`

  - **Description**

    Removes carriage returns in all string in an array of strings
  - **Parameters**
    - `lines` – the lines for which the carriage return is to be removed from
  - **Returns** –

- **urlToCalEvents**

  `public static CalEvent[] urlToCalEvents(java.lang.String url)`

  - **Parameters**
    - `url` – The url to the iCal calendar
  - **Returns** – a list of the events in the calendar located at the url

- **urlToString**

  `public static java.lang.String urlToString(java.lang.String url)`

  - **Description**

    Takes an url and fetches its contents into a string
  - **Parameters**
    - `url` – the url of the website to be downloaded
  - **Returns** – the string with the content of the url

1.4 Class rDataBase

An helper class for an sqlite datebase All credit to Gaddo F. Benedetti

1.4.1 Declaration

public class rDataBase
extends SQLiteOpenHelper

1.4.2 Field summary

context
DB_NAME
DB_VERSION

1.4.3 Constructor summary

rDataBase(Context)

1.4.4 Method summary

executeSQLScript(SQLiteDatabase, String)
onCreate(SQLiteDatabase)
onUpgrade(SQLiteDatabase, int, int)

1.4.5 Fields

- static final int **DB_VERSION**
- static final java.lang.String **DB_NAME**
- Context **context**

1.4.6 Constructors

- **rDataBase**
  `public` **rDataBase**`(Context` **context**`)`

1.4.7 Methods

- **executeSQLScript**
  `public void` **executeSQLScript**`(SQLiteDatabase` **database**`, java.lang.String` **dbname**`)`
- **onCreate**
  `public void` **onCreate**`(SQLiteDatabase` **database**`)`
- **onUpgrade**
  `public void` **onUpgrade**`(SQLiteDatabase` **db**`, int` **oldVersion**`, int` **newVersion**`)`