

# rUglan documentation

Jon Arnar Tomasson, Matthias Pall Gissurarson and Sigurdur Fannar Vilhelmsson

October 16, 2013

# Contents

# Class Hierarchy

## Classes

- java.lang.Object
  - 
  - is.mpg.ruglan.iCalParser
  - Activity
    - is.mpg.ruglan.CalEventActivity
    - is.mpg.ruglan.HomeActivity
    - is.mpg.ruglan.SettingsActivity
  - SQLiteOpenHelper
    - is.mpg.ruglan.rDataBase
  - is.mpg.ruglan.CalEvent
  - is.mpg.ruglan.Dabbi

# Chapter 1

## Package is.mpg.ruglan

<i>Package Contents</i>	<i>Page</i>
<b>Classes</b>	
<b>CalEvent</b> .....??	
Class representing Calendar Event for the project.	
<b>CalEventActivity</b> ..... ??	
<b>Dabbi</b> ..... ??	
An interface for the database backend.	
<b>HomeActivity</b> ..... ??	
<b>iCalParser</b> ..... ??	
Parser for iCalendars.	
<b>rDataBase</b> ..... ??	
An helper class for an sqlite database All credit to Gaddo F.	
<b>SettingsActivity</b> .....??	

### 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(CalEvent)
getColor()
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(CalEvent a)
```

- **Returns** – true if a and b have the same properties, false otherwise

- **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

- **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 CalEventActivity

### 1.2.1 Declaration

```
public class CalEventActivity  
extends Activity
```

### 1.2.2 Constructor summary

[CalEventActivity\(\)](#)

### 1.2.3 Method summary

[onCreate\(Bundle\)](#)  
[onCreateOptionsMenu\(Menu\)](#)  
[onOptionsItemSelected\(MenuItem\)](#)

### 1.2.4 Constructors

- **CalEventActivity**  
`public CalEventActivity()`

### 1.2.5 Methods

- **onCreate**  
`protected void onCreate(Bundle savedInstanceState)`
- **onCreateOptionsMenu**  
`public boolean onCreateOptionsMenu(Menu menu)`
- **onOptionsItemSelected**  
`public boolean onOptionsItemSelected(MenuItem item)`

## 1.3 Class Dabbi

An interface for the database backend.

### 1.3.1 Declaration

```
public class Dabbi
extends java.lang.Object
```

### 1.3.2 Constructor summary

```
Dabbi()
Dabbi(Context)
```

### 1.3.3 Method summary

```
addCalEvents(CalEvent[])
getCalEvents(Date, Date)
```

### 1.3.4 Constructors

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

### 1.3.5 Methods

- **addCalEvents**  
`public void addCalEvents(CalEvent[] calEvents)`
  - **Parameters**
    - \* `calEvents` – An array of CalEvents to be added.
- **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.

## 1.4 Class HomeActivity

### 1.4.1 Declaration

```
public class HomeActivity
extends Activity
```

### 1.4.2 Field summary

[events](#)

### 1.4.3 Constructor summary

[HomeActivity\(\)](#)

### 1.4.4 Method summary

[getContext\(\)](#)  
[isURLMatching\(String\)](#)  
[onCreate\(Bundle\)](#)  
[onCreateOptionsMenu\(Menu\)](#)  
[openCalEventActivity\(String\)](#)

### 1.4.5 Fields

- CalEvent `events`

### 1.4.6 Constructors

- **HomeActivity**  
`public HomeActivity()`



### 1.4.7 Methods

- **getContext**  
public static Context **getContext()**
- **isURLMatching**  
protected boolean **isURLMatching**(java.lang.String url)
- **onCreate**  
protected void **onCreate**(Bundle savedInstanceState)
- **onCreateOptionsMenu**  
public boolean **onCreateOptionsMenu**(Menu menu)
- **openCalEventActivity**  
protected void **openCalEventActivity**(java.lang.String url)

## 1.5 Class iCalParser

Parser for iCalendars.

### 1.5.1 Declaration

```
public class iCalParser
extends
```

### 1.5.2 Constructor summary

[\*\*iCalParser\(\)\*\*](#)

### 1.5.3 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

### 1.5.4 Constructors

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

### 1.5.5 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

## 1.6 Class rDataBase

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

### 1.6.1 Declaration

```
public class rDataBase
extends SQLiteOpenHelper
```

### 1.6.2 Field summary

```
context
DB_NAME
DB_VERSION
```

### 1.6.3 Constructor summary

```
rDataBase(Context)
```

### 1.6.4 Method summary

```
onCreate(SQLiteDatabase)
onUpgrade(SQLiteDatabase, int, int)
```

### 1.6.5 Fields

- static final int **DB\_VERSION**
- static final java.lang.String **DB\_NAME**
- Context **context**

### 1.6.6 Constructors

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

### 1.6.7 Methods

- **onCreate**  
`public void onCreate(SQLiteDatabase database)`
- **onUpgrade**  
`public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion)`

## 1.7 Class SettingsActivity

### 1.7.1 Declaration

```
public class SettingsActivity  
extends Activity
```

### 1.7.2 Constructor summary

[SettingsActivity\(\)](#)

### 1.7.3 Method summary

[onCreate\(Bundle\)](#)  
[onCreateOptionsMenu\(Menu\)](#)  
[onOptionsItemSelected\(MenuItem\)](#)

### 1.7.4 Constructors

- **SettingsActivity**  
`public SettingsActivity()`

### 1.7.5 Methods

- **onCreate**  
`protected void onCreate(Bundle savedInstanceState)`
- **onCreateOptionsMenu**  
`public boolean onCreateOptionsMenu(Menu menu)`
- **onOptionsItemSelected**  
`public boolean onOptionsItemSelected(MenuItem item)`