

Series 1: Making Simple Timer Software is Easy with Java

# Simple Snap Image Timer GoenSnap Ver 1.0

Volume 1.0



by

Goen-Ghin

<http://javageo.com>

<http://groups.yahoo.com/group/JavaGeo/>

# Introduction

- This volume 1, will bring you to the world of java programming to create a software with Timer and Snap Image of your Desktop
- It's help you to know how to make snap shot image on time schedule
- help you to learn how to save snap image then run application to copy/send the snap image file automatically
- And also give you an idea to make your desktop monitoring tool !

# The Snapshot

The screenshot shows a Java Swing window titled "GoenSnapGUI Ver 1.0". The window contains the following text and controls:

- Copyright© Juli 2008 by Javageo.com - Pekanbaru,Indonesia
- GoenSnapGUI
- Set Save Image Place: C:\javaappl\GoenSnapImage
- Set Minute to Alert: 1
- Set Minute of Run: 1
- Set Open With Program: mspaint.exe
- Buttons: OK, Exit

Annotations and their targets:

- Working Directory To Save Snap Image File**: Points to the "Set Save Image Place" text field.
- The GUI**: Points to the window title bar.
- Click OK to RUN it**: Points to the "OK" button.
- Will Run program and Open Snap Image File**: Points to the "Set Open With Program" text field.

# The Snapshot

No GUI

```
Save your Image and Run it with a Program !  
Snap Image will done every 1 minutes.  
and delay minutes of the program is 1  
Process completed of 1 at Time: 16:46:18  
Process completed of 2 at Time: 16:47:18  
_
```

-Run program to open Snap Image File every 1 Minute

# Class and Method

## **Class**

GoenSnap  
GrapImage  
RunFile  
RemindMe

## **Method**

goFile()  
writePNG()  
take()  
etc



# Grap Image

```
private static final int imageTypePNG = BufferedImage.TYPE_4BYTE_ABGR;
    public static final String formatNamePNG = "png";

    //Entire desktop
    public static BufferedImage take() throws AWTException, SecurityException {
        Dimension d = Toolkit.getDefaultToolkit().getScreenSize();
        Rectangle region = new Rectangle(0, 0, d.width, d.height);
        return take(region);
    }

    // Write file
    public static void write(BufferedImage image, String fileName) throws IllegalArgumentException,
IOException {
        if (image == null) throw new IllegalArgumentException("image == null");
        if (fileName == null) throw new IllegalArgumentException("fileName == null");
        if (fileName.trim().length() == 0) throw new IllegalArgumentException("fileName is all
whitespace");

        int index = fileName.lastIndexOf(".");
        String formatName = (index != -1) ? fileName.substring(index + 1) : formatNameDefault;

        File file = new File(fileName);

        write(image, formatName, file);
    }
```

# Run Program and File

i

```
void goFile (int duration, String runcomfile, String file)
{
    try {

        String s = null;
        Runtime r = Runtime.getRuntime();
        Properties p=System.getProperties();
        Process ps = null;
        //excute program filename -- make sure the program can run..
        ps = r.exec(runcomfile+" "+ file);
```

# Save and Load Setting

```
try
{
    FileOutputStream outfl = new FileOutputStream("goensnap.conf");
    DataOutputStream outst = new DataOutputStream(outfl);

    outst.writeUTF("Version:10\n"+
        "WorkDir:"+txtWorkDir.getText()+"\n"+
        "TimerMinute:"+txtAlert.getText()+"\n"+
        "SnapMinute:"+txtSplash.getText()+"\n"+
        "OpenWith:"+txtRun.getText());
    outst.close();

}

catch (IOException ex)
{
    ex.printStackTrace();
    System.out.println("doc"+ex);
}
```

```
public ReadConfig(String sfile) {
    try {
        FileReader fr = new FileReader(sfile);
        BufferedReader br = new BufferedReader(fr);
        for (int i=0;i<5;i++) {
            s[i]=br.readLine();
        }
    }catch (IOException e) {
        System.out.println("Error while reading goensnap.conf file, due to " + e.getMessage());
        System.exit(1);
    }

}

public String getGoenSnapver(){ return s[0].substring(8);} .....etc
```

# Source Code

- The completed source code is inside the files directory of javageo group or
- <http://www.javageo.com>
- You can download the source code...  
Play ,Modify and be succesfull with it...!  
Good luck !!

See you on next volume and series !!