

Java_ME_Location_API

Location API is a JSR 179 which is used to find location information like latitude and longitude.

Here is a code example:

```
import javax.microedition.midlet.*;
import javax.microedition.lcdui.*;
import javax.microedition.location.*;

public class loctest extends MIDlet implements CommandListener
{
    private Display display;
    private Form form;
    private Command cmdExit,cmdOK;
    private StringItem si;

    public loctest()
    {
        display = Display.getDisplay(this);
        form = new Form("Location Api test");
        cmdExit = new Command("Exit",Command.EXIT,5);
        cmdOK = new Command("OK",Command.OK,1);
        si = new StringItem("Geo Location", "Click OK");
        form.append(si);
        form.addCommand(cmdOK);
        form.addCommand(cmdExit);
        form.setCommandListener(this);
    }

    public void startApp()
    {
        display.setCurrent(form);
    }

    public void pauseApp()
    {
    }

    public void destroyApp(boolean flag)
    {
        notifyDestroyed();
    }

    public void commandAction(Command c, Displayable d)
    {
        if (c == cmdOK){
            Retriever ret = new Retriever(this);
            ret.start();
        } else if (c == cmdExit) {
            destroyApp(false);
        }
    }

    public void displayString(String string)
    {
        si.setText(string);
    }
}

class Retriever extends Thread
```

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```
{
private loctest midlet;
public Retriever(loctest midlet)
{
    this.midlet = midlet;
}

public void run()
{
    try
    {
        checkLocation();
    }
    catch (Exception ex)
    {
        ex.printStackTrace();
        midlet.displayString(ex.toString());
    }
}

public void checkLocation() throws Exception
{
    String string;
    Location l;
    LocationProvider lp;
    Coordinates c;

    Criteria cr= new Criteria();
    cr.setHorizontalAccuracy(500);

    lp= LocationProvider.getInstance(cr);
    l = lp.getLocation(60);

    c = l.getQualifiedCoordinates();
    if(c != null ) {
        // Use coordinate information
        double lat = c.getLatitude();
        double lon = c.getLongitude();
        string = "\nLatitude : " + lat + "\nLongitude : " + lon;
    } else {
        string ="Location API failed";
    }
    midlet.displayString(string);
}
}
```