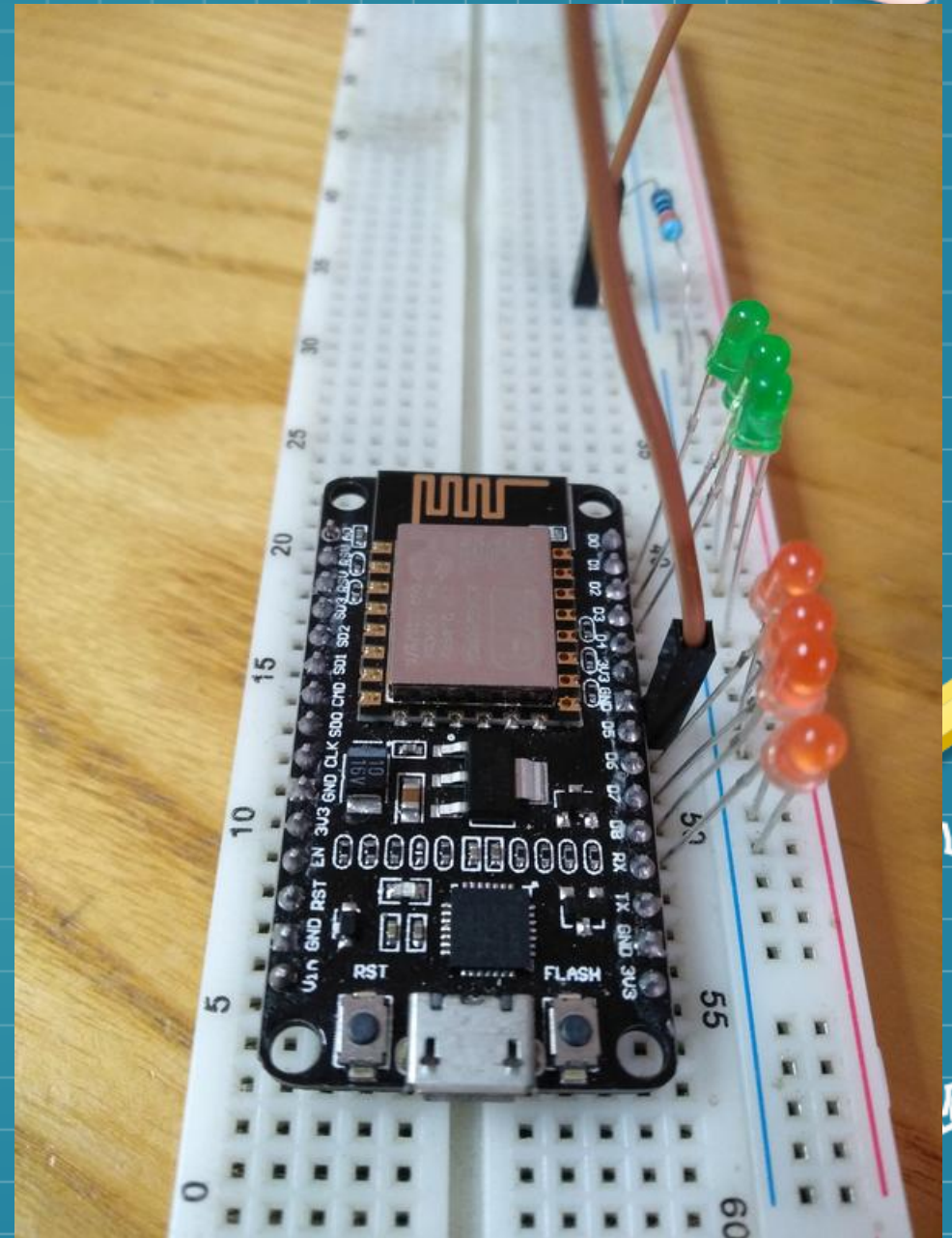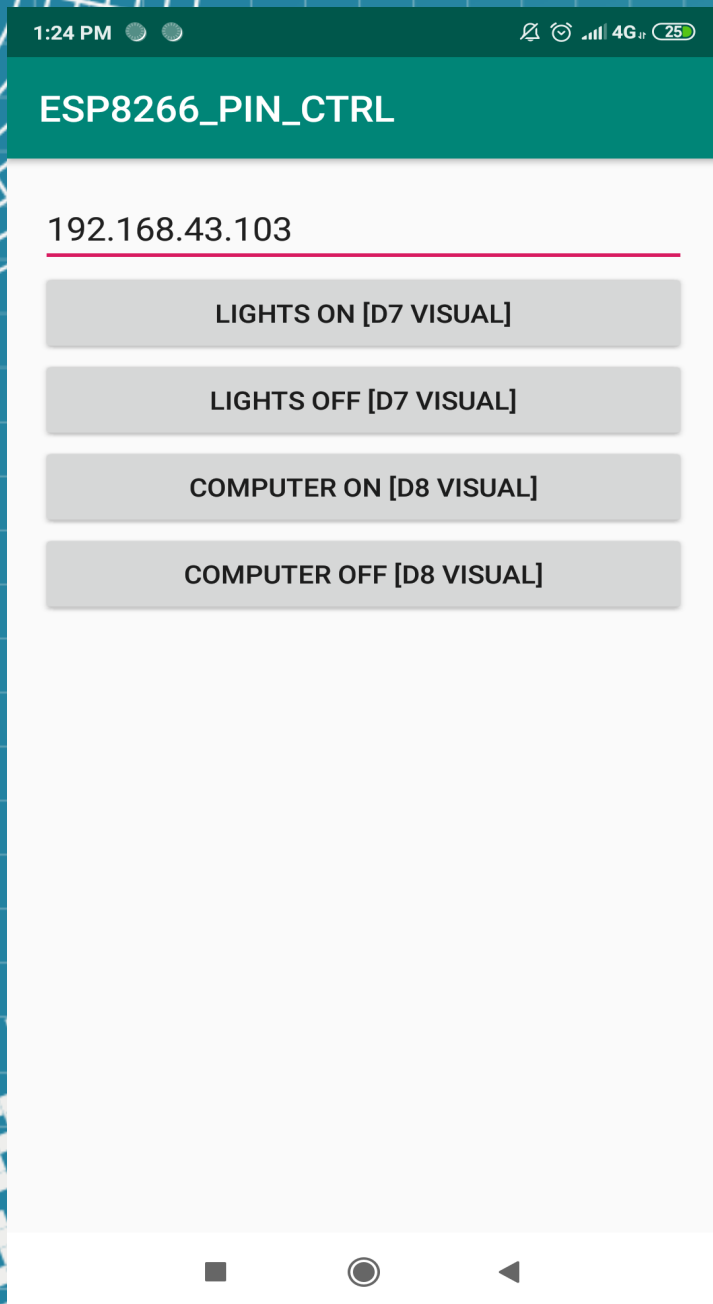# ESP8266 Pin Controller

User requirements

- Controlling simple (on/off) device states using ethernet (wifi, gsm)

- Less time wasted on activities that are simple and can be automated

Επείδηξη

Layout

```xml
activity_main.xml                                              ×
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:tools="http://schemas.android.com/tools"
4     android:layout_width="match_parent"
5     android:layout_height="match_parent"
6     android:orientation="vertical"
7     android:padding="16dp"
8     tools:context=".MainActivity">
9
10    <TextView
11        android:layout_width="wrap_content"
12        android:layout_height="wrap_content"
13        android:layout_gravity="center_horizontal"
14        android:autoLink="web"
15        android:text="http://android-er.blogspot.com/"
16        android:textStyle="bold" />
17
18    <EditText
19        android:id="@+id/ip"
20        android:layout_width="match_parent"
21        android:layout_height="wrap_content"
22        android:text="192.168.43.103" />
23
24    <Button
25        android:id="@+id/bon"
26        android:layout_width="match_parent"
27        android:layout_height="wrap_content"
28        android:text="LED ON" />
29
30    <Button
31        android:id="@+id/boff"
```

Activity

```java
package com.blogspot.android_er.androidespwebled;

import android.os.AsyncTask;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

import org.apache.http.HttpResponse;
import org.apache.http.client.ClientProtocolException;
import org.apache.http.client.HttpClient;
import org.apache.http.client.methods.HttpGet;
import org.apache.http.impl.client.DefaultHttpClient;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.net.URI;
import java.net.URISyntaxException;

public class MainActivity extends AppCompatActivity {

    EditText editIp;
    Button btnOn, btnOff;
    TextView textInfo1, textInfo2;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

Future project updates

- Provide environmental feedback (temperature, humidity)

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