

01: GPS and Google Maps example

Charles

- Google Maps Integration

Herman Huang

- I will like to see the Google Map examples

Rohan

- maybe GPS function?

Stephanie

- Reading user current location and save it inside a database
- **How an application deal with database which grow bigger than 1Mb**

Project: **Wish_01_LocationApi**

Observation: Paris: 2.3470, 48.8742 ; Kuala Lumpur 101.7000 3.1597

Info, how to get a API key:

1. <https://developers.google.com/android/maps-api-signup>
2. get your MD5 fingerprint from command line

```
cd c:\Program Files\Java\jre6\bin>
```

```
keytool -list -alias androiddebugkey -keystore c:\Users\berila\.android\debug.keystore -  
storepass android -keypass android
```

```
androiddebugkey, Dec 2, 2011, PrivateKeyEntry,  
Certificate fingerprint (MD5): E7:F7:1E:C2:C4:52:F8:47:D3:8B:C3:11:36:3E:12:19
```

02: HTML 5 apps

Evelyn

- An Android app that written using HTML5.

Ravi

- We have test results stored at a specific URL (HTML page). I want a simple app to show those test results to upper management.

Keat

- I want to see demo with using HTML5 in android Mobile application.
- I would like to convert the existing website(aspx,asp etc) to android mobile application. Any suggestion? Should I just change the existing codes (aspx, asp etc) to have mobile view with the fit resolution. Then browse it using url in the android phone. Or create a new android application with a new UI in the eclipse ?

Project: **Wish_02_Html5**

Observation: All in one solutions like <http://phonegap.com/> , <http://www.appmobi.com/>

03: Games and animations

Raghu

- How different or difficult is to build game application compared to other application. If you can guide or suggest links to do that would be great.

Tre

- Game programming: simple architectures, synching audio/music and animation and user input on the touch screen

Hadi

- As for me, I want to see how graphics and animation done in Android. Is this out of scope?

Shilpa

- Can you show us some animated pictures. Like a person moving or something similar (like in games).

Demo: [Wish_03_GameAnimation](#)

04: Connection to database servers

Keat

- I want to see how android application connecting to database hosted in the server (SQL Server). (any configuration needed, permission etc)

Ravi

- The same test results are in a backend database. I want a simple app to show those to upper management.

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
```

```
public class DB {
    private static final String url = "jdbc:mysql://localhost/android";
    private static final String user = "root";
    private static final String password = "password";
    public static void main(String args[]) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con = DriverManager.getConnection(url, user, password);
            Statement st = con.createStatement();
            ResultSet rs = st.executeQuery("select * from User");
            while(rs.next()) {
                Log.v("DB", rs.getString(2) )
            }
        } catch (Exception e) {
        }
    }
}
```

<http://androidforums.com/application-development/497414-android-mysql-using-com-mysql-jdbc-driver.html>

<http://appinventor.blogspot.de/2011/07/android-mysql.html>

05: Image manipulation

Tre

- Video streaming <http://code.google.com/p/spydroid-ipcamera/>
- Webcam integration into apps <http://code.google.com/p/ipcamera-for-android/>
- Take a picture and upload inside our YAMBA ap - demo on MDB

Wong, Woon Soon

- Does Google provide a library or code to get data from image? Example, using a phone to take a picture, then scan the images to get the word from that image - demo in project FaceDetection

Nabilah

- I would like to see demo on generating report based on user input like using bar chart or pie chart - a non native component must be used like <https://github.com/jjoe64/GraphView>

06: Low level and security

Azruddin

- General demo of PERMISSIONS and usages. What permissions are dangerous? - see below
- Difference between root vs unrooted. What extra things an application can do on a rooted android device? - <http://www.av-test.org/en/tests/android/>

Cheang, Wai Huong

- Detecting WIFI, turning on and off on the device's WIFI. Send/Receive file via WIFI - demo project 09_ ApacheHTTP
- Turning on and off on Bluetooth, detecting other devices and send, receive file via Bluetooth.

turn on/off bluetooth

```
BluetoothAdapter mBluetoothAdapter = BluetoothAdapter.getDefaultAdapter();
if (!mBluetoothAdapter.isEnabled()) {
    Intent enableBtIntent = new Intent(BluetoothAdapter.ACTION_REQUEST_ENABLE);
    startActivityForResult(enableBtIntent, REQUEST_ENABLE_BT);
}
```

permissions

```
permissionsCostsMoney = new ArrayList<String>();
permissionsCostsMoney.add("android.permission.SEND_SMS");
permissionsCostsMoney.add("android.permission.CALL_PHONE");
permissionsCostsMoney.add("android.permission.CALL_PRIVILEGED");

permissionsPrivacyIssues = new ArrayList<String>();
permissionsPrivacyIssues.add("android.permission.GET_ACCOUNTS");
permissionsPrivacyIssues.add("android.permission.READ_CALENDAR");
permissionsPrivacyIssues.add("android.permission.READ_CONTACTS");
permissionsPrivacyIssues.add("android.permission.READ_LOGS");
permissionsPrivacyIssues.add("android.permission.READ_SMS");
permissionsPrivacyIssues.add("android.permission.ACCESS_COARSE_LOCATION");
permissionsPrivacyIssues.add("android.permission.ACCESS_FINE_LOCATION");

permissionsInternetAccess = new ArrayList<String>();
permissionsInternetAccess.add("android.permission.INTERNET");
```

07: Other wishes

Evelyn

- A e-book application, that connect to database that display text and picture.

Zafar

- Read the status messages and post on Facebook - demo on WINK