### **Building an Android App using IBM Bluemix Services**

### **Prerequisites:**

- 1) Bluemix Account https://console.ng.bluemix.net
- 2) Android Studio http://developer.android.com/sdk/index.html

#### **Instructions:**

Use the following steps to configure a simple Android Application using Bluemix services:

- 1) Download the sample code from Github
- 2) Create a website using java/python with SQL database on Bluemix.
- 3) Create an Android Application.
- 4) Invoke the website into the Android Application
- 5) Run the application

### **Download the sample code from Github:**

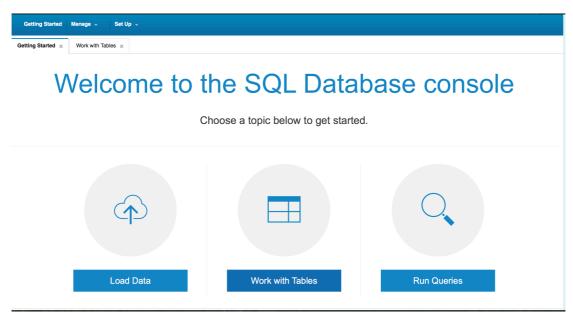
Get the sample code from Github with the following command:

git clone https://github.com/sumanth11/Android-Application-Bluemix-Services.git

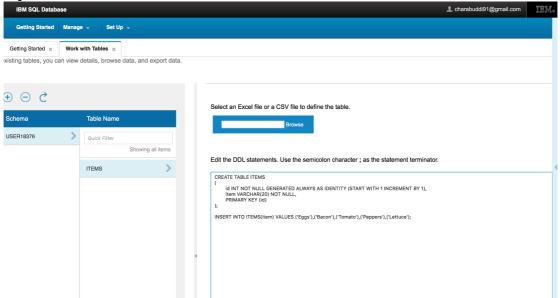
# <u>Create a website using java/python with SQL database on</u> Bluemix:

Create an IBM Bluemix web application with python starting point. Add the SQL database service to it.

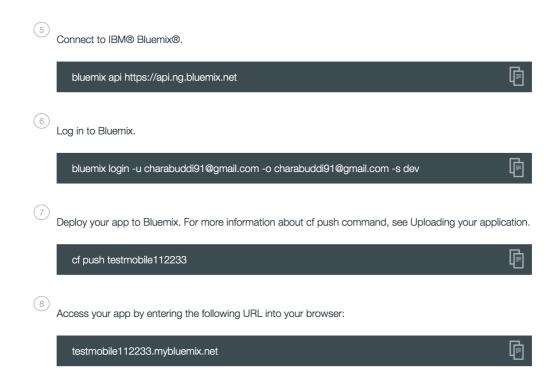
Open the sql database and create the tables (click on work with tables).



Add a new table insert the SQL query that is present in the downloaded folder as SQL.txt.



From the sample code open the python directory and then push the part of the code on to the web application.



Now the web application will be started.

## **Create an Android Application:**

1) Using Android Studio, open the Android-proj directory where the project was cloned.

## **Invoke the website into the Android Application:**

1) Open the MainActivity.java file. Now change the bluemixAppName to the web application that we have created.

```
public class MainActivity extends Activity {
    //Change this variable to your Bluemix's application name!
    String bluemixAppName = "testmobile112233";

EditText userInput;
ButtonRectangle addItem;
ListView items;
ProgressBar progressBar;

ArrayList<String> itemsList = new ArrayList<>>();
ArrayAdapter<String> arrayAdapter = null;

SwipeDismissListViewTouchListener touchListener;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
}
```

### **Run the application:**

In Android Studio, click Run > Run.

This is a single view application with a simple list of to do items. If you previously added data through your web application, you will see the data is automatically pulled into the application.

References:

https://www.youtube.com/watch?v=-T-FP9rEu9E