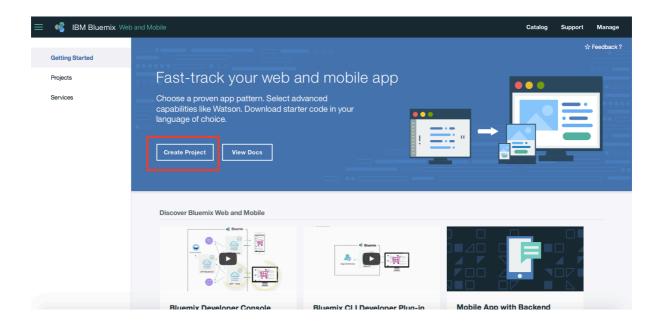
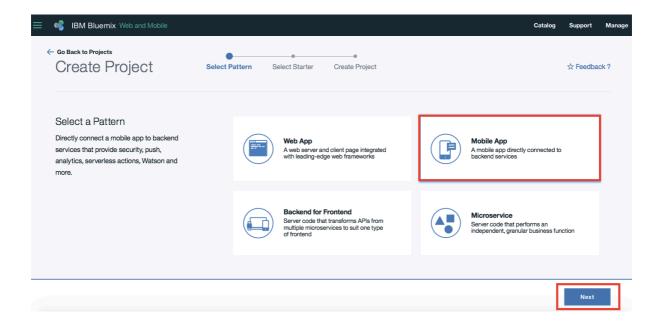
Build a Watson powered Chat Bot using Mobile Services, Watson Conversation, Text to Speech

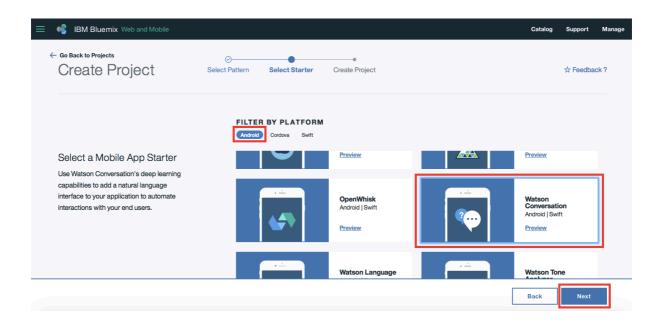
Step 1: Go to URL https://console.ng.bluemix.net/developer/getting-started/ and click on **CREATE PROJECT**



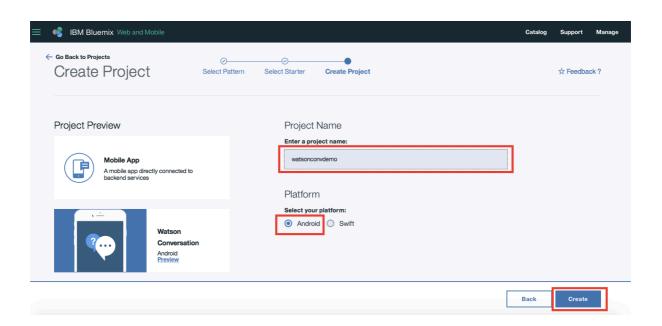
Step 2: Click on MOBILE APP and Click on NEXT



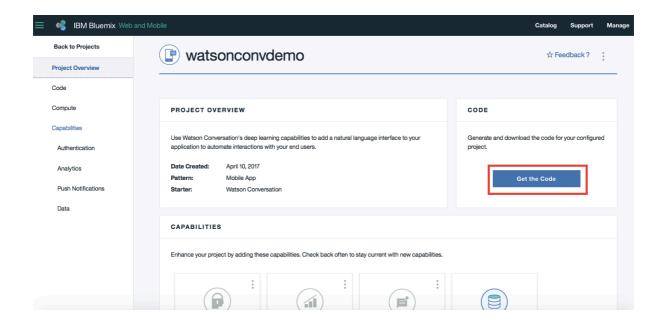
Step 3: Filter by **ANDROID** and then click on **Watson Conversation** and Click on **NEXT**



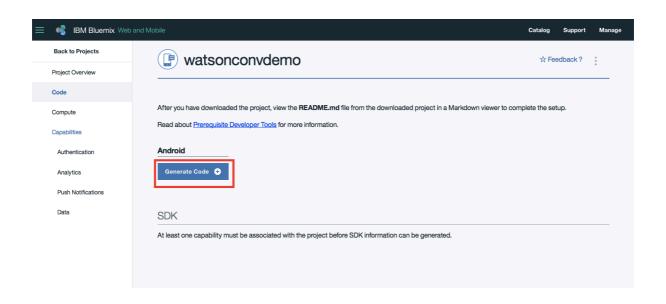
Step 4: Enter **Project Name** and Select platform as **Android** and click on **CREATE**



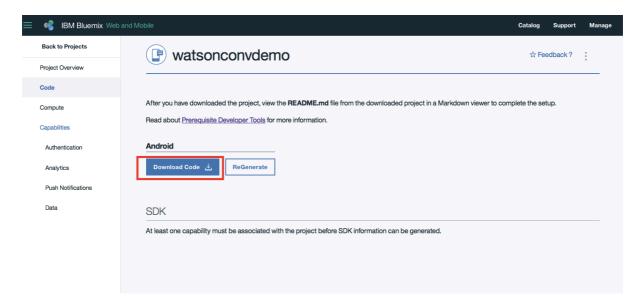
Step 5: Click on Get the Code



Step 6: Click on Generate Code



Step 7: Download the generated code.



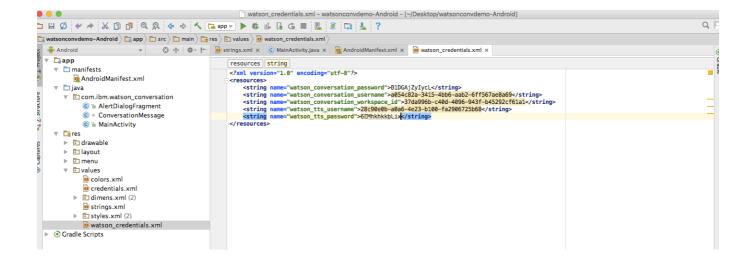
Step 8: Unzip the generated code and then Import it into Android Studio

Step 9: In the build.gradle(app), insert dependency

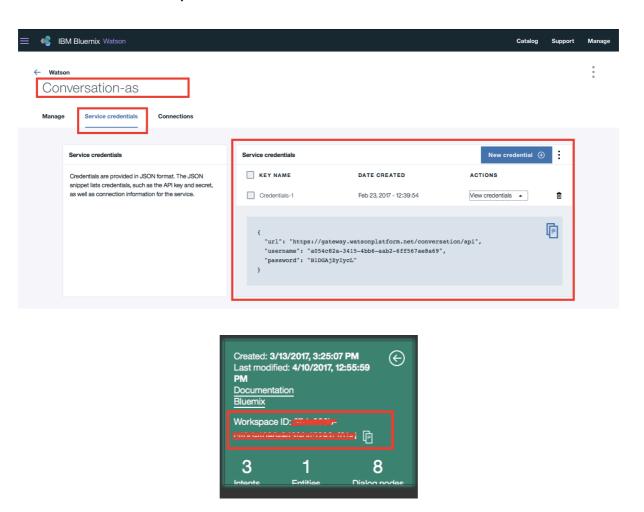
compile 'com.ibm.watson.developer cloud:android-sdk:0.2.3'

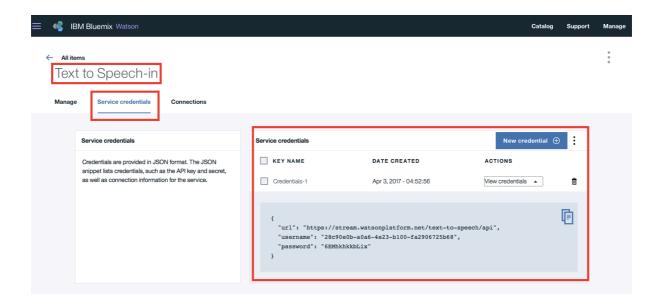
Step 10: In res>values>watson_credentials.xml enter the Watson Conversation password, Username, Workspace ID and insert last two lines to insert Text to Speech Username & Password

```
<resources>
<string name="watson_conversation_password">B1DGAjZyJycL</string>
<string name="watson_conversation_username">a054c82a-3415-4bb6-aab2-6ff567ae8a99</string>
<string name="watson_conversation_workspace_id">37da996b-c40d-4096-943f-b45292cf91a1</string>
<string name="watson_tts_username">28c90e0b-a0a6-4e23-b100-fa2906725b69</string>
<string name="watson_tts_password">6EMhkhkkbLpx</string>
</resources>
```



You will get the credentials when you create Watson Conversation Service & Text to Speech Service in Bluemix





Step 11:

```
private TextToSpeech initTextToSpeechService()
{
    TextToSpeech service = new TextToSpeech();
    service.setUsernameAndPassword(getString(R.string.watson_tts_username),getString(R.string.watson_tts_password));
    return service;
}
```

Step 12: Import

```
import com.ibm.watson.developer_cloud.text_to_speech.v1.TextToSpeech;
import com.ibm.watson.developer_cloud.text_to_speech.v1.model.Voice;
import com.ibm.watson.developer_cloud.android.library.audio.StreamPlayer;
```

Step 13: Create the method WatsonTask.

```
StreamPlayer streamPlayer;
private class WatsonTask extends AsyncTask<String, Void,</pre>
String> {
   @Override
   protected String doInBackground(String...texttoSpeech) {
       TextToSpeech textToSpeech = initTextToSpeechService();
       streamPlayer = new StreamPlayer();
streamPlayer.playStream(textToSpeech.synthesize(texttoSpeech[0
], Voice. EN_ALLISON).execute());
       return "textToSpeech";
   }
   @Override
   protected void onPostExecute(String result) {
   }
}
Step 14:
Call the method inside
addMessageFromUser(ConversationMessage message) {
if (message.getUser().equals(USER Watson)){
.....
.....
.....
new WatsonTask().execute(message.getMessageText());
}
```