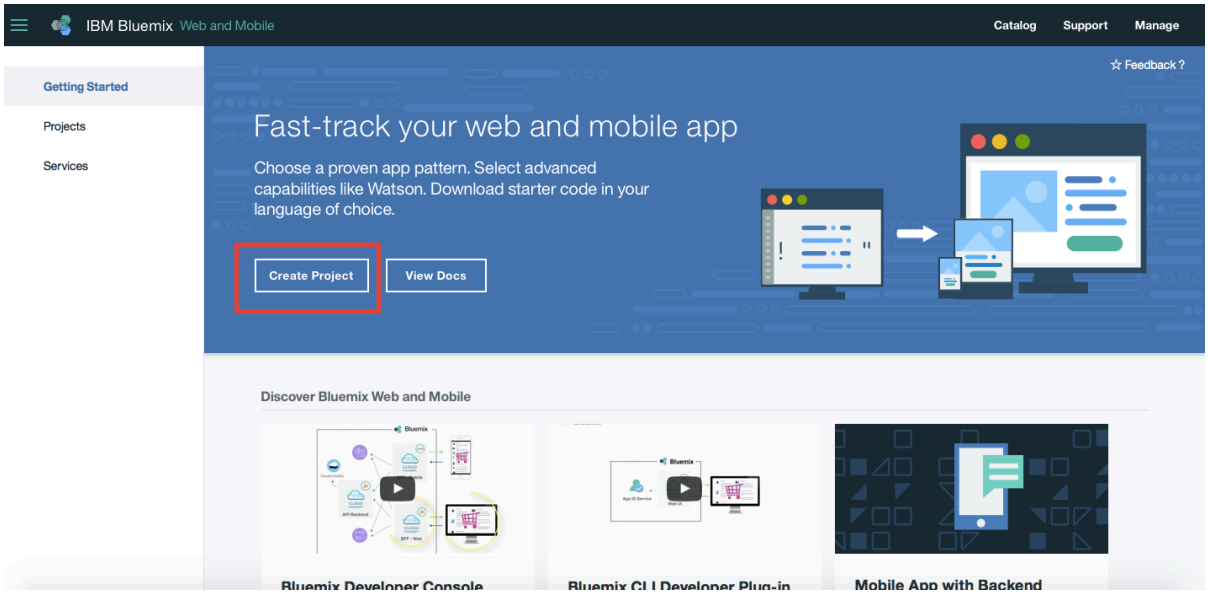
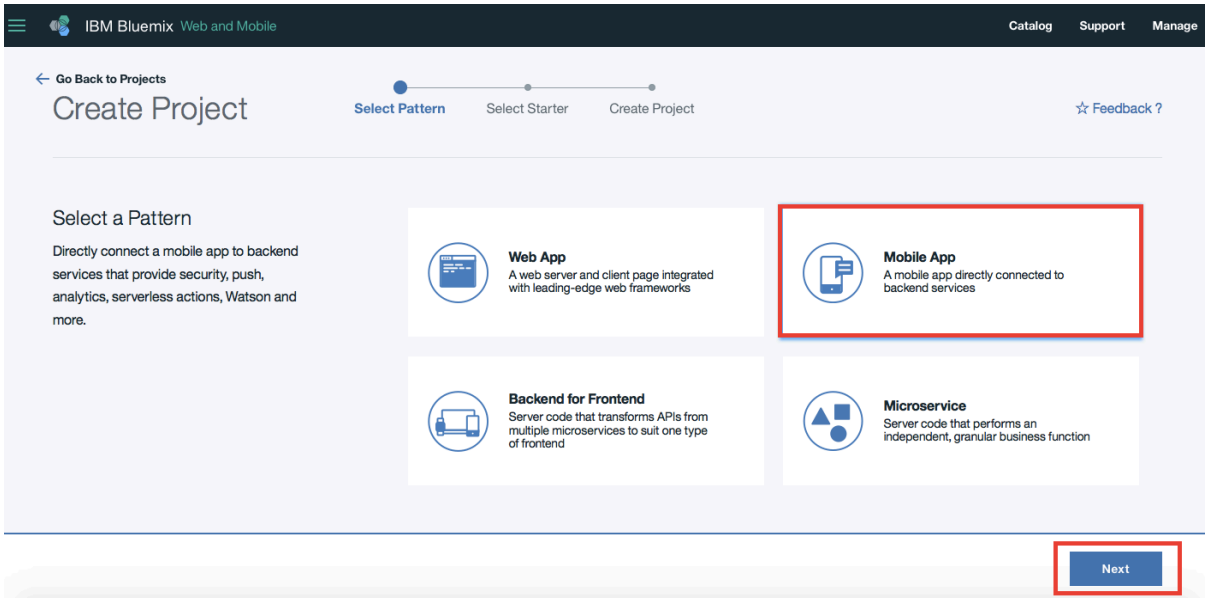
Build a Watson powered Chat Bot using Mobile Services, Watson Conversation, Text to Speech

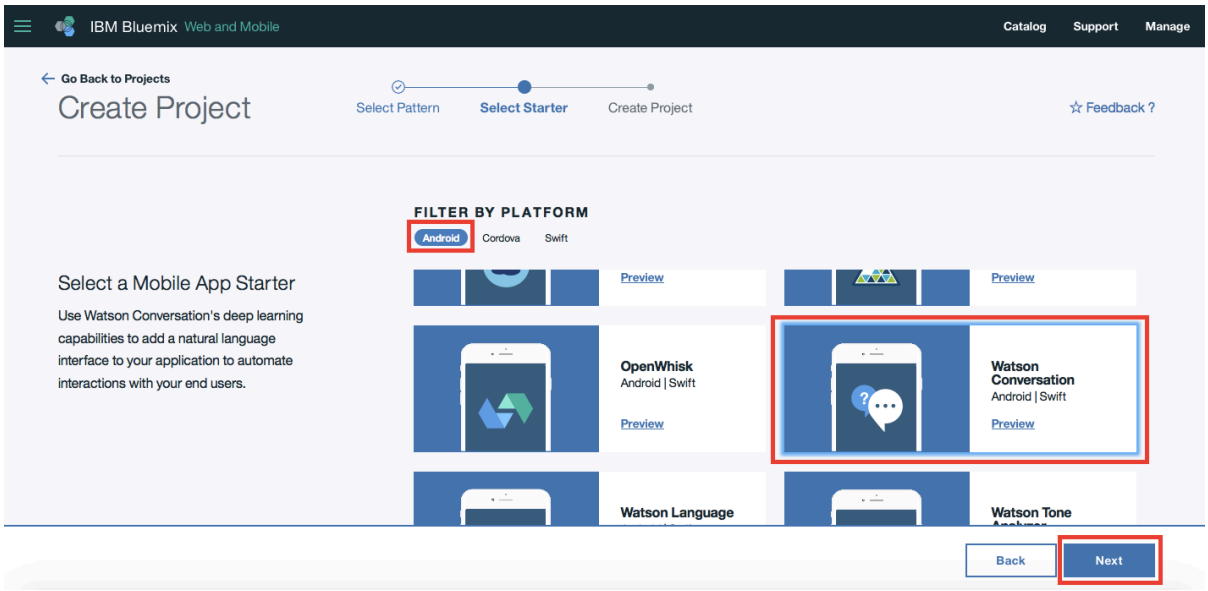
Step 1: Go to URL https://console.ng.bluemix.net/developer/getting-started/ and click on **CREATE PROJECT**



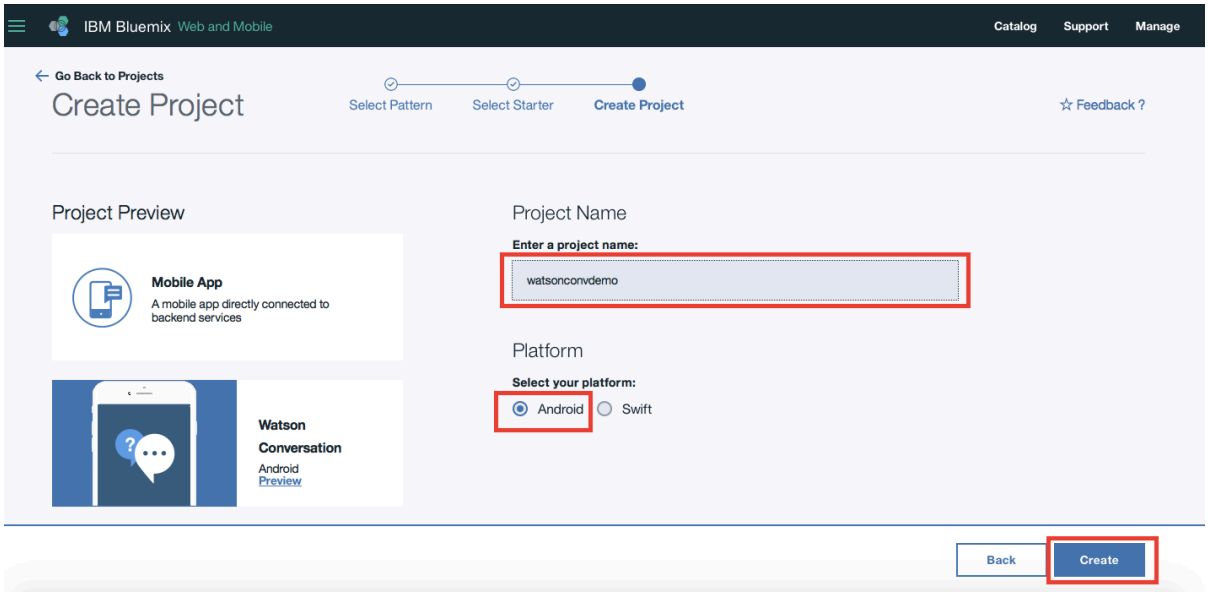
Step 2: Click on **MOBILE APP** and Click on **NEXT**



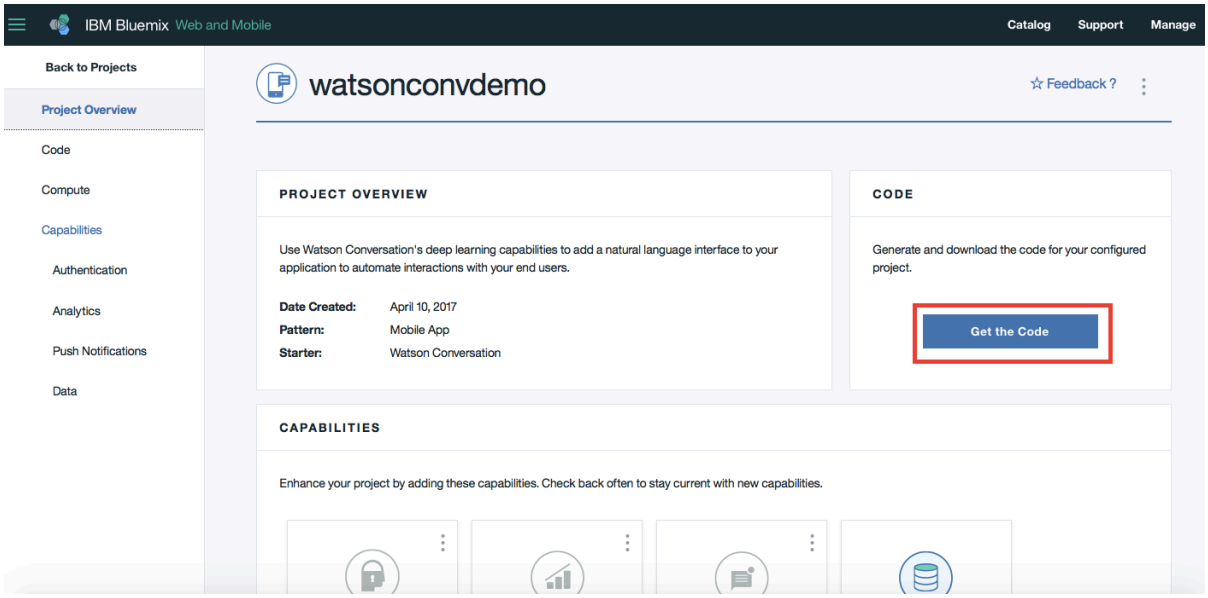
Step 3: Filter by **ANDROID** and then click on **Watson Conversation** and Click on **NEXT**



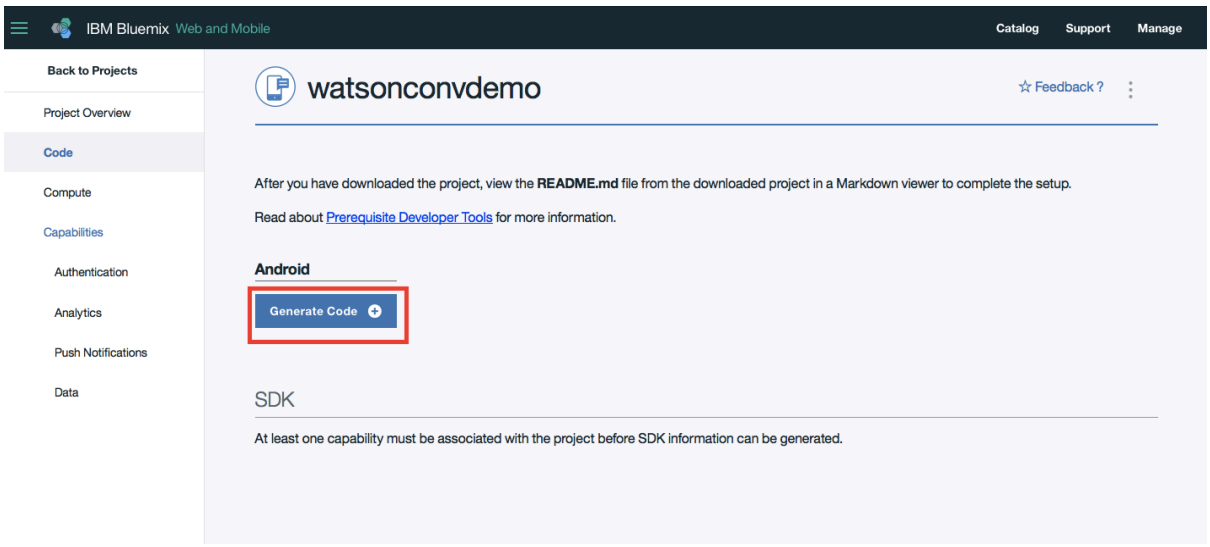
Step 4: Enter **Project Name** and Select platform as **Android** and click on **CREATE**



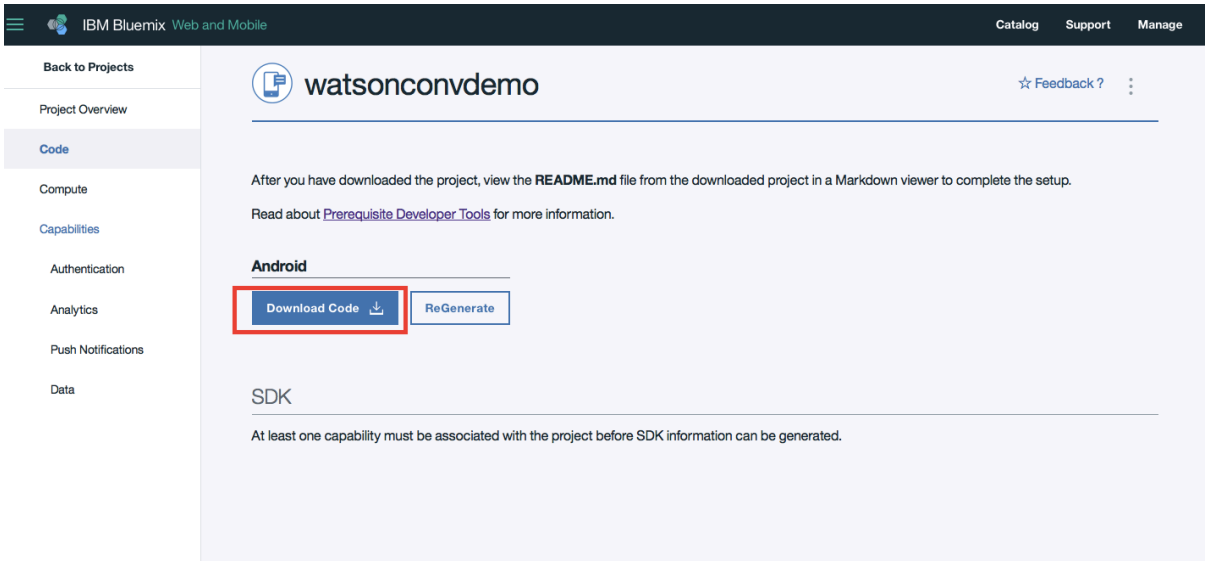
Step 5: Click on **Get the Code**



Step 6: Click on **Generate Code**



Step 7: **Download the generated code.**



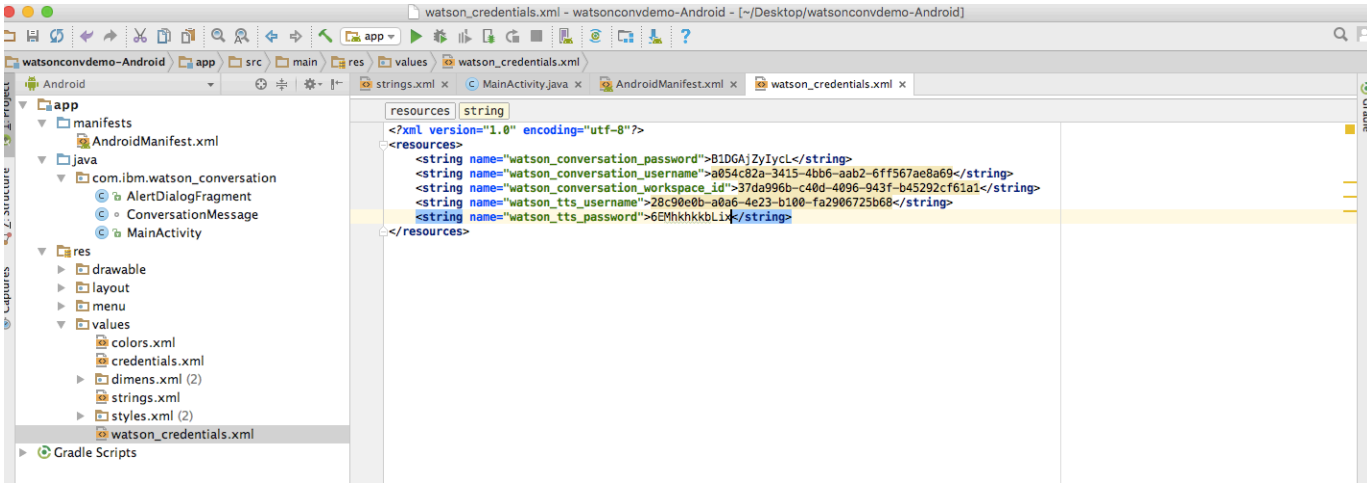
Step 8: Unzip the generated code and then Import it into Android Studio

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

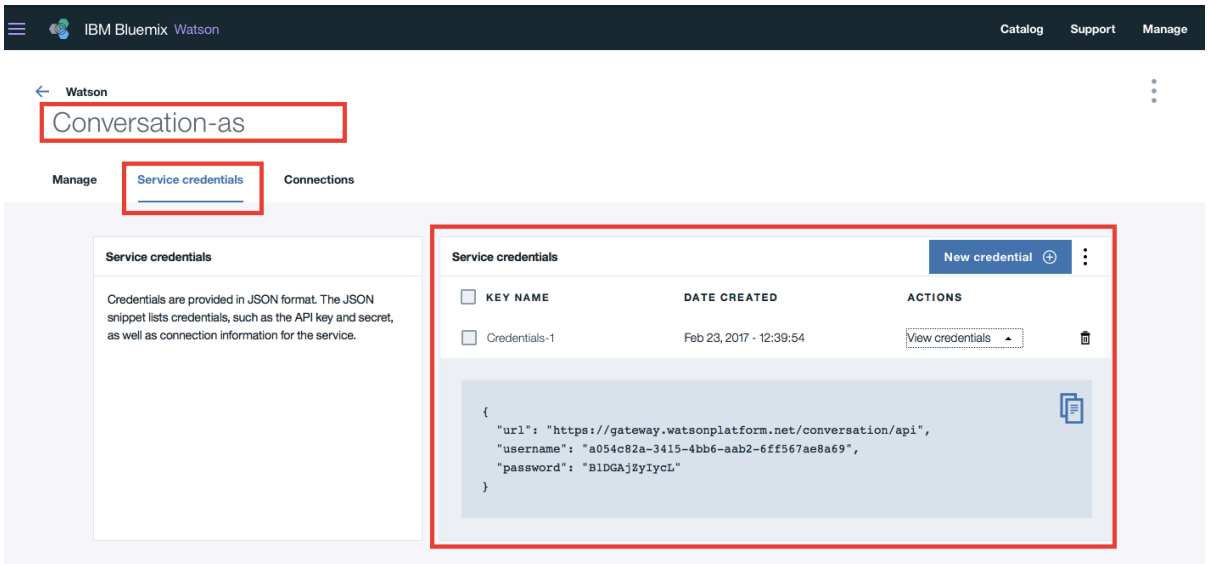
```
compile 'com.ibm.watson.developer_cloud:android-sdk:0.2.3'
```

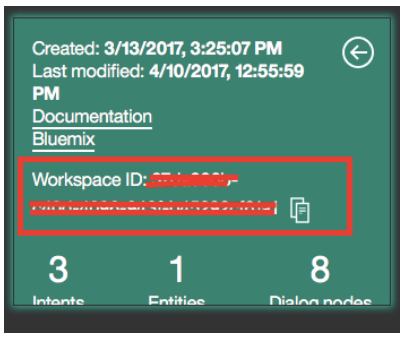
Step 10: In res>values>watson_credentials.xml enter the Watson Conversation password, Username, Workspace ID and insert last two lines to insert Text to Speech Username & Password

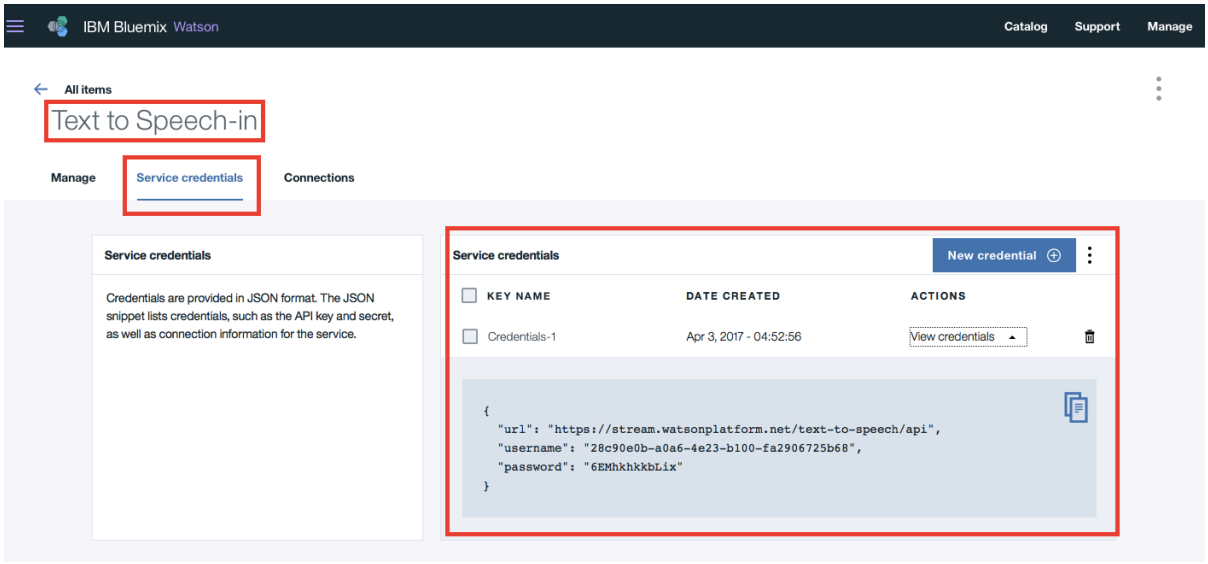
```
<resources>
<string name="watson_conversation_password">B1DGAjZyJycL</string>
<string name="watson_conversation_username">a054c82a-3415-4bb6-aab2-6ff567ae8a99</string>
<string name="watson_conversation_workspace_id">37da996b-c40d-4096-943f-b45292cf91a1</string>
<string name="watson_tts_username">28c90e0b-a0a6-4e23-b100-fa2906725b69</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,
String> {
    @Override
    protected String doInBackground(String...texttoSpeech) {

        String MessageText = texttoSpeech[0];

        TextToSpeech textToSpeech = initTextToSpeechService();
        streamPlayer = new StreamPlayer();

streamPlayer.playStream(textToSpeech.synthesize(MessageText,
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());
}
```