

# MODULE 13

# MOBILE SERVICES

# TABLE OF CONTENT

- Internet Permission
- Azure Mobile Services
- Webography

# Internet Permission

- ▶ To access mobile services
  - Add Internet permission into AndroidManifest.xml

```
<uses-permission android:name="android.permission.INTERNET"/>
```

# Azure Mobile Services

## ▶ Use

- `com.microsoft.windowsazure.mobileservices.MobileServiceClient`
- `com.microsoft.windowsazure.mobileservices.table.MobileServiceTable`
- `com.microsoft.windowsazure.mobileservices.MobileServiceList`

## ▶ Update the dependencies tag in the build.gradle (Module app)

- Then, synchronize project with Gradle files

# Azure Mobile Services

- ▶ To connect to the Azure mobile service

```
private MobileServiceClient mClient;  
private MobileServiceTable<ToDoItem> mToDoTable;
```

```
try {  
    // Create the Mobile Service Client instance, using the provided  
    // Mobile Service URL and key  
    mClient = new MobileServiceClient(  
        URL ← [redacted],  
        KEY ← [redacted],  
        this).withFilter(new ProgressFilter());  
  
    // Get the Mobile Service Table instance to use  
    mToDoTable = mClient.getTable(ToDoItem.class); → To access to the table  
} catch (MalformedURLException e) {  
    ...  
}
```

# Azure Mobile Services

- ▶ To add an item to the table


```
ToDoItem item = new ToDoItem();
```

```
new AsyncTask<Void, Void, Void>() {  
    @Override  
    protected Void doInBackground(Void... params) {  
        try {  
            mToDoTable.insert(item).get();  
            ...  
        }  
        catch (Exception exception) {  
            ...  
        }  
        return null;  
    }  
}.execute();
```

# Azure Mobile Services

- ▶ To read items from the table

```
new AsyncTask<Void, Void, Void>() {  
    @Override  
    protected Void doInBackground(Void... params) {  
        try {  
            final MobileServiceList<ToDoItem> result = mToDoTable.execute().get();  
  
            runOnUiThread(new Runnable() {  
                @Override  
                public void run() {  
                    for (ToDoItem item : result) {  
                        ...  
                    }  
                }  
            });  
        } catch (Exception exception) {  
            ...  
        }  
        return null;  
    }  
}.execute();
```



# Webography

- ▶ To access Azure Mobile Services in Android
  - <http://azure.microsoft.com/en-us/documentation/articles/mobile-services-android-get-started-data/>