

# Integration Steps for Xamarin Android Application

## Prerequisites:

1. Get google-services.json file and server key from Firebase Developer Console.
2. Get App Id from Smartech Panel

**Note:** Identity (used in this documentation) must be primary key which defined on the smartech panel for identified user and blank for anonymous users

**Example:** 1) If primary key is email Id then identity must be Email ID for logged in user  
2) If primary key is mobile number then identity must be Mobile number for logged in user  
3) If primary key is custom ID then it must be custom ID for logged in user

## Steps for Integrations:

### 1. Create a Xamarin.Android application with Visual Studio.

-Go to File => New Project=>Android Project

### 2. Add plugin in Packages folder of Application.

-Go to package folder and click on add packages

### 3. Add following lines in <Project\_Name.cs.proj> file

```
<ItemGroup>
  <GoogleServicesJson Include="google-services.json">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </GoogleServicesJson>
</ItemGroup>
```

### 4. Add 'google-services.json' in project directory.

### 5. Download .dll file from below github link and add to your project

<https://github.com/NetcoreSolutions/Smartech-xamarin-android-sdk.git>

### 6. Add Following packages from nuget.org

-Go to package folder => Add nuget packages => Select following packages from nuget package manager.

-Xamarin.Firebase.Messaging

-Google.Gson

-Xamarin.GooglePlayServices.Location

-Xamarin.GooglePlayServices.Gcm

## 7. Follow below code for respective events :

### -Register:

```
NetcoreSDK.Register(this.Application, <AppId>, <Identity>);
```

**Note:** 1. Above code get fire on every time application get launch  
2. It is not sign up/ register call of application

### -Login

```
NetcoreSDK.Login(this.BaseContext, <Identity> );
```

### -Logout

```
NetcoreSDK.Logout(this.BaseContext, <Identity>);
```

### -Custom Activity:

```
NetcoreSDK.Track(this, <Identity>, <Event ID>, <Payload>);
```

### Example:

```
JSONObject jsonObject = new JSONObject();  
    JSONArray jsonArray = new JSONArray();  
    JSONObject newPayload = new JSONObject();  
  
    jsonObject.Put("s^name", "<Test>" );  
    jsonObject.Put("i^id", "<1234>" );  
    jsonObject.Put("f^price", "<2332.56>");  
  
    jsonArray.Put(jsonObject);  
    newPayload.Put("payload", jsonArray);  
NetcoreSDK.Track(this, "", 101, newPayload.ToString());
```

### -Profile Push

```
NetcoreSDK.Profile(this.BaseContext, <Identity>, <Profile Details>);
```

### Example

```
JSONObject newProfile = new JSONObject();  
  
    newProfile.Put("NAME", "Developer");  
    newProfile.Put("AGE", 25);  
    newProfile.Put("MOBILE", 127890);  
  
NetcoreSDK.Profile(this.BaseContext, "", newProfile);
```