Prerequisites & Integration Steps

- **Prerequisites:**

    1. **google-services.json** file from Firebase Console
    2. **Server Key** from Firebase Console
    3. **App Id** from Smartech panel

    Note: Minimum SDK version (minSdkVersion) available in the build.gradle file of the app should be at least 16 (Jelly Bean) or above.

- **Integration Steps:**

    - **Setting up FCM in the application**
        1. Add google-services.json file in app directory of the project.
        2. Adding dependencies given below in **build.gradle file of the project**.

        ```
        classpath 'com.android.tools.build:gradle:3.3.1'
        classpath 'com.google.gms:google-services:4.2.0'
        ```

        3. Adding below code in the **build.gradle file of the app**.

        ```
        apply plugin: 'com.google.gms.google-services'
        ```

    - **Adding dependencies in the build.gradle file of the app**

        ```
        implementation 'in.netcore.smartechfcm:smartech-fcm:1.2.3'
        implementation 'com.google.firebase:firebase-messaging:17.3.4'
        implementation 'com.google.code.gson:gson:2.8.5'
        implementation 'com.google.android.gms:play-services-ads:17.1.1'
        ```

        Note:
        - One can avoid using **'com.google.android.gms:play-services-ads'** dependency if an app does not want Smartech to fetch Advertising Id of the device.

        - If present, remove **'com.firebase:firebase-jobdispatcher:0.8.5'** dependency from the build.gradle of the app.

- ○ **To register device for push notifications**
  To register the device for receiving push notifications from Smartech panel**,** add given snippet inside the **onCreate method of the Application class**.

  ```
  NetcoreSDK.register(this, <app_id>);
  ```

- ○ **To capture user login**
  To capture login activity of the user, add given snippet inside the activity/fragment when the user gets logged in successfully.

  ```
  NetcoreSDK.setIdentity(context, <unique_user_identity>);
  NetcoreSDK.login(context);
  ```

- ○ **To capture user logout**
  To capture logout activity of the user, add given snippet inside the activity/fragment when the user gets logged out successfully.

  ```
  NetcoreSDK.logout(context);
  NetcoreSDK.clearIdentity(context);
  ```

  Note: Avoid calling 'clearIdentity' method if one wants to track user activity even if user has logged out of the application.

- ○ **To capture custom activity**
  To capture custom activity performed by the user, add given snippet as per the requirement.

  ```
  NetcoreSDK.track(context, <event_name>, payload.toString());
  ```

  e.g.

  ```
  JSONObject jsonObject = new JSONObject();
  JSONObject payload = new JSONObject();
  try {
          payload.put("name", "Nexus 5");
          payload.put("prid", 2);
          jsonObject.put("payload", payload);
          NetcoreSDK.track(context, "Add To Cart", jsonObject.toString());
  }
  catch (JSONException e) { e.printStackTrace(); }
  ```

  Note: Prior implementation of custom activity tracking with event id will be also supported by the SDK.

○ **To capture user attributes**

To capture and map user attributes, add given snippet as per the requirement.

> *NetcoreSDK.profile(context, <profile_object>);*

e.g.

> *JSONObject profile = new JSONObject();*
> *try {*
> *   profile.put("NAME", "John Doe");*
> *   profile.put("AGE", 35);*
> *   profile.put("MOBILE", 9876543210);*
> *   NetcoreSDK.profile(context, profile);*
> *}*
> *catch (JSONException e) { e.printStackTrace(); }*

Note: Use attribute name in capital letters as shown above.

○ **To use custom push notification icon**

SDK uses launcher icon for push notifications by default and in order to change it, use a custom icon by adding given snippet inside **onCreate method of the Application class**.

> *NetcoreSDK.setPushIcon(context, <path_to_drawable_icon>);*

e.g.

> *NetcoreSDK.setPushIcon(context, R.drawable.ic_push_icon);*

Note: The notification icon being used should strictly be in **.png format** as per Google's guidelines. Preferable size for the push notification icons are mentioned below.

drawable-mdpi	: 24 x 24
drawable-hdpi	: 36 x 36
drawable-xhdpi	: 48 x 48
drawable-xxhdpi	: 72 x 72
drawable-xxxhdpi	: 96 x 96

○ **To fetch delivered push notifications**
  To fetch delivered push notifications, add given snippet as per the requirement.

```
JSONArray notifications = NetcoreSDK.getNotifications(context);

OR

JSONArray notifications = NetcoreSDK.getNotifications(context, <count>);
```

Note: The method returns a 'JSONArray' of delivered push notifications for the user. **By default the method returns last 10 delivered notifications**.

○ **To implement push notifications in existing FCM class**
  To use push notifications from Smartech panel along with existing set up of the FCM class, add given snippet **inside the FCM receiver class**.

```
boolean pushFromSmartech =
NetcoreSDK.handleNotification(context, remoteMessage.getData());
```

Note: The method returns a **boolean** value.

- Returns **true**, if the push notification is received from the Smartech panel. It will also render the push notification without any extra efforts further.

- Return **false**, if the push notification is not received from the Smartech panel. In this case, handle the push notification at your end as per the requirement.

○ **To opt out user from being tracked (GDPR Policy)**
  If the end user wants to opt out of being tracked, add given snippet as per the requirement.

```
NetcoreSDK.optOut(context, <boolean_flag>);
```

Note: The method accepts a **boolean** value.

- If an end user wants to opt out, the flag should be passed as **true**. Once the user opts out, SDK will not be able to track that particular user further and no communications will be received by that user.

- If an end user wants to opt in, the flag should be passed as **false**. Once the user opts in, SDK will be able to track that particular user further and next communications will be received by that user.

- ○ **To implement location tracking**
  In order to track user location and pass it further to Smartech, add given snippet as per the requirement.

  > *NetcoreSDK.setUserLocation(context, <double_lat>, <double_long>);*

  Note: The method mentioned above accepts 3 parameters including context, latitude & longitude. **Data type of 'latitude' & 'longitude' should compulsorily be 'Double'.** In case if any parameter is null, SDK will not be able to persist user location.

- ○ **To set user identity**
  In order to identify a user, set unique user identity by adding given snippet as per the requirement.

  > *NetcoreSDK.setIdentity(context, <unique_user_identity>);*

- ○ **To clear user identity**
  In order to wipe out user identity from the SDK, add given snippet as per the requirement.

  > *NetcoreSDK.clearIdentity(context);*

- ○ **To set existing FCM token**
  To set existing FCM token of the application to the SDK, **add given snippet as per the requirement**.

  > *NetcoreSDK.setPushToken(context, <token_string>);*

  e.g.

  > *NetcoreSDK.setPushToken(context, "abc...xyz");*

- ○ **To get GUID of the user**
  To obtain GUID of the user from the SDK, add given snippet as per the requirement.

  > *NetcoreSDK.getGUID(context);*

○ **To get FCM token of the user**

To obtain the FCM token of the user from the SDK, add given snippet as per the requirement.

```
NetcoreSDK.getPushToken(context);
```

○ **To implement deep link in the application**

To implement deep link in the application, add given snippet **inside AndroidManifest.xml file with in the Activity Tag**.

```
<intent-filter>
  <action android:name = "android.intent.action.VIEW"/>
  <category android:name = "android.intent.category.DEFAULT"/>
  <category android:name =
"android.intent.category.BROWSABLE"/>
  <data android:scheme = "<scheme>" android:host= "<host>"/>
</intent-filter>
```

e.g.

```
<intent-filter>
  <action android:name = "android.intent.action.VIEW"/>
  <category android:name = "android.intent.category.DEFAULT"/>
  <category android:name =
"android.intent.category.BROWSABLE"/>
  <data android:scheme = "smartech" android:host= "products"/>
</intent-filter>
```

○ **To fetch Advertising Id**

To fetch Advertising Id using Smartech SDK of the device, add given snippet **in the AndroidManifest.xml file inside the application tag.**

```
<meta-data
  android:name="SMT_USE_AD_ID"
  android:value="<value>"/>
```

e.g.

```
<meta-data
  android:name="SMT_USE_AD_ID"
  android:value="1"/>
```

Note: The method accepts either **'0'** or **'1'** as value.

- If an app wants Smartech SDK to fetch Advertising Id of the device, use **'1'** as value.

- If an app does not want Smartech SDK to fetch Advertising Id of the device, use **'0'** as value.

○ **To fetch custom payload from push notifications**
To fetch custom payload data from the push notifications, **add given snippet in the activity of the application** as per the requirement.

```
Bundle bundle = getIntent().getExtras();
JSONObject jsonObject =
        new JSONObject(bundle.getString("customPayload"));
```

○ **To use Notification Center feature**
To use Notification Center feature in your app, please follow the steps mentioned below:

1. Add given dependencies in the build.gradle file of the app

```
implementation 'com.android.support:recyclerview-v7:27.1.0'
implementation 'com.android.support:cardview-v7:27.1.0'
implementation 'com.github.bumptech.glide:glide:4.9.0'
implementation 'com.android.support.constraint:constraint-layout:1.1.3'
```

2. Copy Notification Center files in your project as mentioned below
    a. Paste activity layout and adapter row layout in res > layout folder
        i. activity_notification_center.xml
        ii. carousal_item.xml
        iii. notification_row.xml

    b. Paste activity & adapter classes inside the project
        i. NotificationCenterActivity.class
        ii. CarousalAdapter.class
        iii. NotificationAdapter.class

3. Paste below code in AndroidManifest.xml file of the application

```
<activity
  android:theme="@style/Theme.AppCompat.Light.NoActionBar"
  android:name=".activity.NotificationCenterActivity" />
```