NotificationFunction

How the service works

The service is made of two functions:

1. an `HTTP trigger` that expects a request carrying a json body. We expect the body to contain multiple sub-objects each representing a notifcation that will be sent to a **specific user**. The body will have this structure:

   ```
   {
       "messages": [
           <messageObject>,
           <messageObject>,
           ...
           ...
           ...
       ]
   }
   ```

   To add a layer of security to the http trigger, we require each request to have the header `x-api-key` containing the api key value. If the header is not sent or the api key value does not match, the messages will not be processed by the service.

2. a `ServiceBus trigger` that processes one message and interact with `Microsoft Notifications Hub` to send the push notification to the user/s using the tag/channel specified in the message itself.

Message structure

In our first implementation we decided that the service will send a notification to a specific user. For this reason each message object, will have to contain **all** of the information necessary to send the push notification to the user, even if there is redundancy within the information sent on each message.

This is the structure we expect:

```
{
    "title": string,
    "body": string,
    "tags": string[],
    "platforms": string[],
    "type": string,
    "id": string?,
}
```

1. `"title"` *(mandatory)* is a string containing the title of the notification, this will be displayed on the user device.

2. `"body"` *(mandatory)* is a string containing the body of the notification, this will also be displayed on the user device.
3. `"tags"` *(mandatory)* is an array of strings which determines who will receive the push notification. **NOTE**: in our system we need to specify the `profileSlug` *(mandatory)* value of a user to send a push notification to that user. So in our case `tag` must contain the `profileSlug` value. Failing to provide the correct value for a user will result in a failure to send the notification to that user.
4. `"platforms"` *(mandatory)* is an array of strings representing the OS of the devices of the user. **NOTE**: since our app is available only on `iOS` and `Android`, the user can have at most two differrent type of devices, hence the `platforms` array can only contain **one or two** elements. For `Android` we expect to receive the string `"fcm"`, for `"iOS"` we expect to receive `"apns"`. If the user actively uses device on both platforms we expect to receive both `"apns"` and `"fcm"` in the array.
5. `"type"` *(mandatory)* is a string representing a label that will "tell" the mobile app what action needs to be performed after receiving the push notification. It will be `"POST"` if we want to open a particular video in app. It will be `"FEED"` if we want to open a particular filtered feed (NOT YET IMPLEMENTED IN APP ATM).
6. `"id"` *(mandatory)* is a string field its value varies depending on the `"type"` property. If `"type": "POST"` then `"id"` will be a `keyId` string corresponding to the post we want the user to visualize. If `"type": "FEED"` then `"id"` will the a string containing one or more `feedListId`. **NOTE**: in case the feed is filtered by multiple filters then always use a comma `,` to separate them inside the string.

Examples

Send a push notification to open a specific video:

```
{
    "title": "Nuovo video virale per te",
    "body": "Ciao Daniele, abbiamo pensato che questo nuovo video possa piacerti:
scopri anche tu le terme di Saturnia",
    "tags": [ "danieleguerzoni-8a01ea0a" ],
    "platforms": [ "fcm" ],
    "type": "POST",
    "id": "2802aeed962e845d48d8a44d6f3394629740b3af83e2bab54f6fc5dab3edf3f0"
}
```

Send a push notification to open a filtered feed:

```
{
    "title": "Scopri la Toscana",
    "body": "Ciao Daniele, scopri le opportunita' di relax che la Toscana ha da
offrirti",
    "tags": [ "danieleguerzoni-8a01ea0a" ],
    "platforms": [ "fcm" ],
    "type": "FEED",
    "id": "IT_16,THM-012"
}
```