Generate the User Ids

Generate the User ID First things you'll need are the UID ingredients. The Internal User ID (for each of your users), App ID, and Security Key.

```
internalUserID = User123
appID = 1sJ57hgit
securityKey = 838ab4b72d221a585af8b4be7a540234
```

Generate an md5 hash of the combined string using your programming language's md5 function (using Python 3, it is in a library called hashlib). Then concatenate the first 10 characters of the md5 hash. Make sure the Checksum is lowercase.

Generate an md5 hash of the combined string

Concatenate the first 10 characters using hexdigest(:10)

```
concat_input = internalUserID + appID + securityKey
checksum = hashlib.md5(concat_input).hexdigest()[:10]
Combine them all into one to create the PL UID.
PL_UID = internalUserID + "-" + appID + "-" + checkSum
```

Repeat this process for each of your users to create their User ID.

Examples

Here are examples of how to do this process using 3 different programming languages.

Python

#This Script Produces a PL User ID using Python

```
import hashlib
import sys

endUserId = "User123" #insert internal user ID here
applicationKey = "54dbf08d625158c6d7b055928d6ac0cc" #insert application key here
applicationId = "9145" #insert App ID here.

checkSum = hashlib.md5(endUserId + applicationId + applicationKey)
userId = endUserId + "-" + applicationId + "-" + checkSum.hexdigest()[:10]
print(userId)
Ruby
require 'digest'
end_user_id = 'test_user'
publisher_id = '1'
security_key = '00000000000000000000000000000000'
hash = Digest::MD5.hexdigest(end_user_id + publisher_id + publisher_security_key)
user_id = "#{end_user_id}-#{publisher_id}-#{hash[0..9]}”
```

C#

```
System.Security.Cryptography;

public class Program
{
 public static void Main()
 {
    var endUserID = "User123"; //assuming a member id for their user to be 3.  Make sure to
change it for every user
    var publisherId = "9165";
    var securityKey = "34101a01e1f305b39d16283d5dd05194";
          var hash = CalculateMD5Hash(endUserID + publisherId + securityKey);
    var userId = endUserID + "-" + publisherId + "-" + hash.Substring(0, 10).ToLower();
    var iFrameURL = "https://www.rapidoreach.com/offerwall/?userId=" + userId + "&dob=03-03-
1979&sex=1"; //make sure to append the correct dob and sex for every user
          Console.WriteLine("Generated user id is :{0}", userId);
          Console.WriteLine("Generated iFrameURL is :{0}", iFrameURL);
```

```
}
 public static string CalculateMD5Hash(string input)
       {
            // step 1, calculate MD5 hash from input
            MD5 md5 = System.Security.Cryptography.MD5.Create();
            byte[] inputBytes = System.Text.Encoding.ASCII.GetBytes(input);
            byte[] hash = md5.ComputeHash(inputBytes);

            // step 2, convert byte array to hex string
            StringBuilder sb = new StringBuilder();
            for (int i = 0; i < hash.Length; i++)
            {
                sb.Append(hash[i].ToString("X2"));
            }
            return sb.ToString();
       }
}
```

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