

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


```
{
    // 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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