# **Category Server**

This is a simple server which provides for categorization of apps. The objective of the system is to provide a consistent mechanism to all systems to determine the category of a particular app given the package name. The categories of apps need to be determined by using the package name and querying from Google Play (GP). Unfortunately GP does not provide any API, so it will need to be GP The GP scraped from the page of the app. page for any https://play.google.com/store/apps/details?id=<package name of the app>. For example, the GP page of WhatsApp is <a href="https://play.google.com/store/apps/details?id=com.whatsapp">https://play.google.com/store/apps/details?id=com.whatsapp</a> where 'com.whatsapp' is the package name of the app. The category for Whatsapp on Communications. And for that the corresponding category that we should consider is "Social". The below list gives the mapping between the categories on GP and our own categories -

## **Category Mapping Table**

GP Category	Our Category
Finance	Finance
Action	Games
Action & Adventure	Games
Adventure	Games
Arcade	Games
Board	Games
Brain	Games
Brain Games	Games
Card	Games
Casino	Games
Educational	Games
Music	Games
Pretend	Games
Pretend play	Games
Puzzle	Games
Racing	Games
Role	Games
Role Playing	Games
Simulation	Games
Strategy	Games
Trivia	Games

Word	Games
Auto & Vehicles	Lifestyle
Beauty	LifeStyle
Casual	Lifestyle
Dating	Lifestyle
Food & Drink	Lifestyle
Health	Lifestyle
Health & Fitness	Lifestyle
House & Home	Lifestyle
Lifestyle	Lifestyle
Medical	Lifestyle
Parenting	Lifestyle
Sports	Lifestyle/Games
Entertainment	Media
Music & Audio	Media
Music and video	Media
Photography	Media
Video	Media
Video Players &	
Editors	Media
Books	News & Books
Books & Reference	News & Books
Comics	News & books
Education	News & Books
Libraries	News & BOoks
News	News & Books
News & Magazines	News & books
Shopping	Shopping
Communication	Social
Social	Social
Art & Design	Tools
Business	Tools
Creativity	Tools
Events	Tools

Libraries & Demo	Tools
Personalisation	Tools
Productivity	Tools
Tools	Tools
Weather	Tools
Maps	Travel
Maps & Navigation	Travel
Travel	Travel
Travel & Local	Travel

The following APIs must be exposed out by the server.

# /syncTopPackagesCategories

Request Type - POST

Gives the list of package added in **top** application list since last timestamp. Gives the entire list if there is no timestamp. We will initially seed it with a list of 10000 apps along with their categories.

Request body parameters to be sent as JSON in POST body.

locale_code	Current locale of the device
time_stamp	Timestamp provided by server for the last request

### Sample request body

```
{
    "locale_code": "en",
    "time_stamp": "1477308028"
}
```

### Response body parameters

time_stamp	Timestamp provided for current request
packages_added	List of packages along with category _id and category name added since last time stamp
packages_modified	List of packages along with category_id and category name modified since last time stamp
packages_removed	List of packages along with category_id and category name removed since last time stamp

### Sample response body

```
{
     "time stamp": "1477308028",
     "packages added": [{
           "package name": "cn.xender",
           "category id": "800",
           "category_name": "Tools"
     }, {
           "package name": "com.myntra.android",
           "category id": "600",
           "category name": "Shopping"
     }, {
           "package name": "com.imangi.templerun",
           "category id": "200",
           "category name": "Games"
     }, {
           "package name": "com.ixigo.train.ixitrain",
           "category id": "900",
           "category name": "Travel"
     }],
     "packages modified": [],
     "packages removed": [{
           "package_name": "com.acrosoft.sajupedia",
           "category id": "400",
           "category name": "Media"
     }, {
           "package name": "com.imviha.yogasan",
           "category id": "300",
           "category name": "Lifestyle"
     }, {
```

# /categoryForPackage

Request Type - POST

Gives the category for a given package. This is supposed to first check for the same in the DB of the server and if not found scrape it from GP and then return the category. All categories once scraped must also be stored in server DB.

Request body parameter to sent as JSON in POST body

package_name	Package name of application whose category is to be determined
locale_code	Current locale of device

#### Sample Request body

#### Response body parameters

package_name	Package name of application installed on device
package_name	i deliage name of application instance on device

category_id	Category id to which package belong
category_name	Name of category in given locale

### Sample response body

```
"package_name": "com.octro.teenpattilive",
    "category": "200",
    "category_name": "Games"
}
```

# /categoryList

Request Type - POST

Gives the master list of categories into which application can be categorized. The current set of categories will be as per the right column in the category mapping table above. All categories along with their corresponding localized names will be provided.

Request body parameters to be sent as JSON in POST body

locale_code	Locale of device
ſ	

```
"locale_code": "en"
}
```

### Response body for list of categories

category_id	Category id provided by server
category_names	List of category name in different locale

#### Sample response body

```
{
     "100": [{
           "as": "Finance",
           "bn": "Finance",
           "en": "Finance",
           "qu": "Finance",
           "hi": "Finance",
           "kn": "Finance",
           "ml": "Finance",
           "mr": "Finance",
           "or": "Finance",
           "pa": "Finance",
           "ta": "Finance",
           "te": "Finance",
           "ur": "Finance"
     }],
     "200": [{
           "as": "Games",
           "bn": "Games",
           "en": "Games",
           "gu": "Games",
           "hi": "Games",
           "kn": "Games",
           "ml": "Games",
           "mr": "Games",
           "or": "Games",
           "pa": "Games",
           "ta": "Games",
           "te": "Games",
           "ur": "Games"
     }],
     "300": [{
           "as": "Lifestyle",
           "bn": "Lifestyle",
           "en": "Lifestyle",
           "gu": "Lifestyle",
           "hi": "Lifestyle",
           "kn": "Lifestyle",
           "ml": "Lifestyle",
```

```
"mr": "Lifestyle",
     "or": "Lifestyle",
     "pa": "Lifestyle",
     "ta": "Lifestyle",
     "te": "Lifestyle",
     "ur": "Lifestyle"
} ],
"400": [{
     "as": "Media",
     "bn": "Media",
     "en": "Media",
     "qu": "Media",
     "hi": "Media",
     "kn": "Media",
     "ml": "Media",
     "mr": "Media",
     "or": "Media",
     "pa": "Media",
     "ta": "Media",
     "te": "Media",
     "ur": "Media"
}],
"500": [{
     "as": "News & Books",
     "bn": "News & Books",
     "en": "News & Books",
     "qu": "News & Books",
     "hi": "News & Books",
     "kn": "News & Books",
     "ml": "News & Books",
     "mr": "News & Books",
     "or": "News & Books",
     "pa": "News & Books",
     "ta": "News & Books",
     "te": "News & Books",
     "ur": "News & Books"
}],
"600": [{
      "as": "Shopping",
     "bn": "Shopping",
     "en": "Shopping",
     "gu": "Shopping",
     "hi": "Shopping",
```

```
"kn": "Shopping",
     "ml": "Shopping",
     "mr": "Shopping",
     "or": "Shopping",
     "pa": "Shopping",
     "ta": "Shopping",
     "te": "Shopping",
     "ur": "Shopping"
}],
"700": [{
     "as": "Social",
     "bn": "Social",
     "en": "Social",
     "gu": "Social",
     "hi": "Social",
     "kn": "Social",
     "ml": "Social",
     "mr": "Social",
     "or": "Social",
     "pa": "Social",
     "ta": "Social",
     "te": "Social",
     "ur": "Social"
} ],
"800": [{
     "as": "Tools",
     "bn": "Tools",
     "en": "Tools",
     "qu": "Tools",
     "hi": "Tools",
     "kn": "Tools",
     "ml": "Tools",
     "mr": "Tools",
     "or": "Tools",
     "pa": "Tools",
     "ta": "Tools",
     "te": "Tools",
     "ur": "Tools"
}],
"900": [{
     "as": "Travel",
     "bn": "Travel",
     "en": "Travel",
```

```
"qu": "Travel",
           "hi": "Travel",
           "kn": "Travel",
           "ml": "Travel",
           "mr": "Travel",
           "or": "Travel",
           "pa": "Travel",
           "ta": "Travel",
           "te": "Travel",
           "ur": "Travel"
     }],
     "1000": [{
           "as": "Others",
           "bn": "Others",
           "en": "Others",
           "qu": "Others",
           "hi": "Others",
           "kn": "Others",
           "ml": "Others",
           "mr": "Others",
           "or": "Others",
           "pa": "Others",
           "ta": "Others",
           "te": "Others",
           "ur": "Others"
     } ]
}
```

# /updateTopPackagesList

Request Type - POST

Updates the top packages list maintained on server as per the list of packages provided in the request. This is supposed to mark any existing TOP packages not provided in the request as deleted, make appropriate additions if there are new ones and mark any modifications by updating the modification time stamps. This is also supposed to fetch the GP category of all these apps once again to ensure that the proper category of the app is maintained in the server's database.

Request body parameters to be sent as JSON in POST body

```
packages List of packages to be updated on server
```

```
Sample request body
{
       "packages": [
              "com.softwego.lockscreen",
              "us.screen.recorder",
              "com.hp.hp12c",
              "com.NatAguilar.settechnician",
              "net.ddroid.sw2.wface.model",
              "com.bykup",
              "com.meamobile.iSupr8",
              "com.dunitiapps.cast.snow",
              "com.rayy.android.smseditor",
              "com.antutu.benchmark.full",
              "com.drakema138.carma",
              "com.instudios.ksrtcon",
              "net.pecoranera.kokorozashifull",
              "air.com.bossastudios.ddd.paid",
              "com.swarooptech.bills",
              "jp.wasabeef.example.recyclerview",
              "com.sasyabook.mctpro",
              "com.aditinakta.sruthibox",
              "com.creativityknowledgeapp.howtoswimandtechniqueapp",
              "com.indianslivesportsatel.jkbmlvm",
              "com.gamebaby.dietplanweightloss7days",
              "com.Lock.Wallpapers.LockUtilsLockScreen"
       ]
}
```

#### Response parameters

status	HTTP code to inform about status
message	Message corresponding to given request

```
Sample response body
{
     "status": "200",
     "message": "Package update is successful"
```