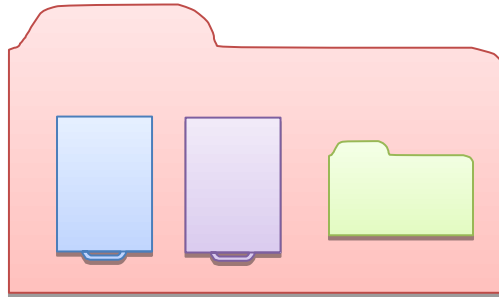# **Package**

Packages are a way of structuring Python's module namespace by using "dotted module names".

A package can have one or more modules which means, a package is collection of modules and packages.

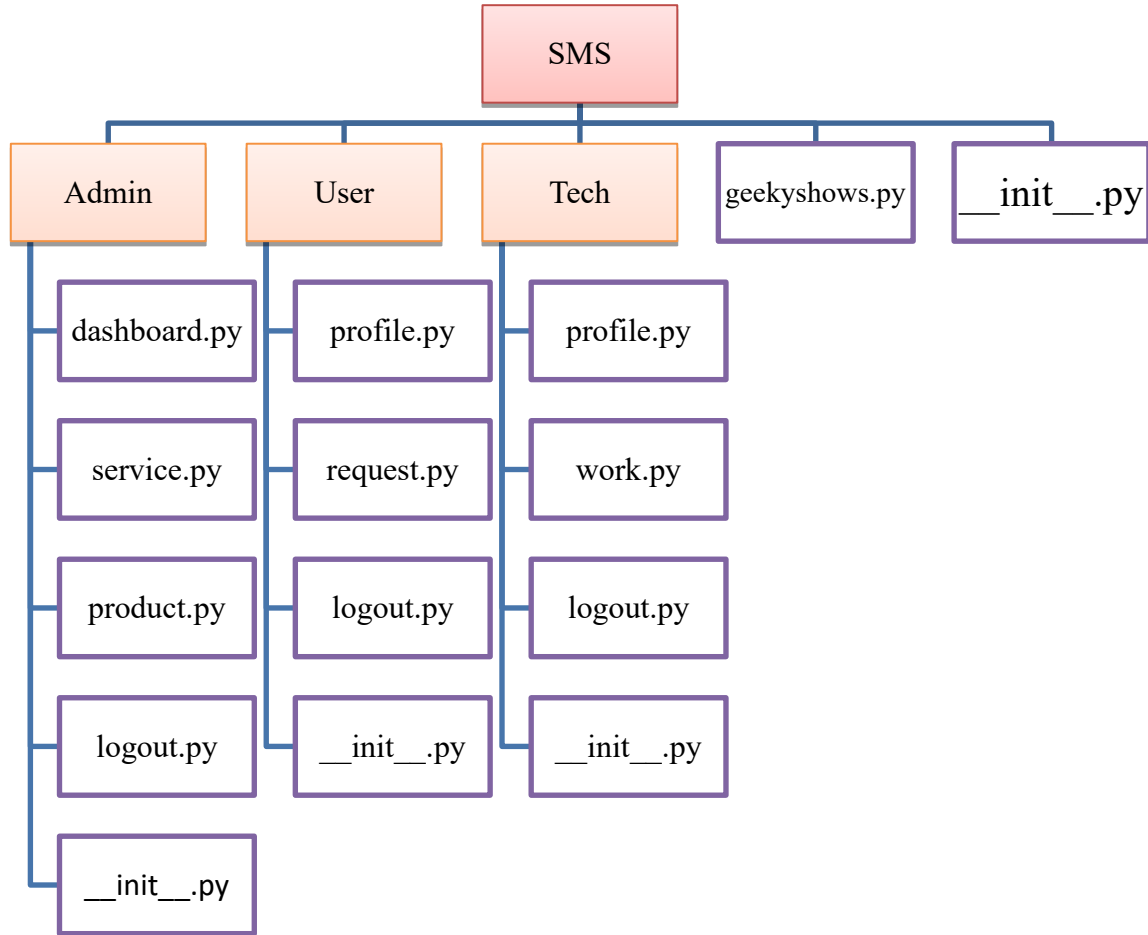A package can contain packages.

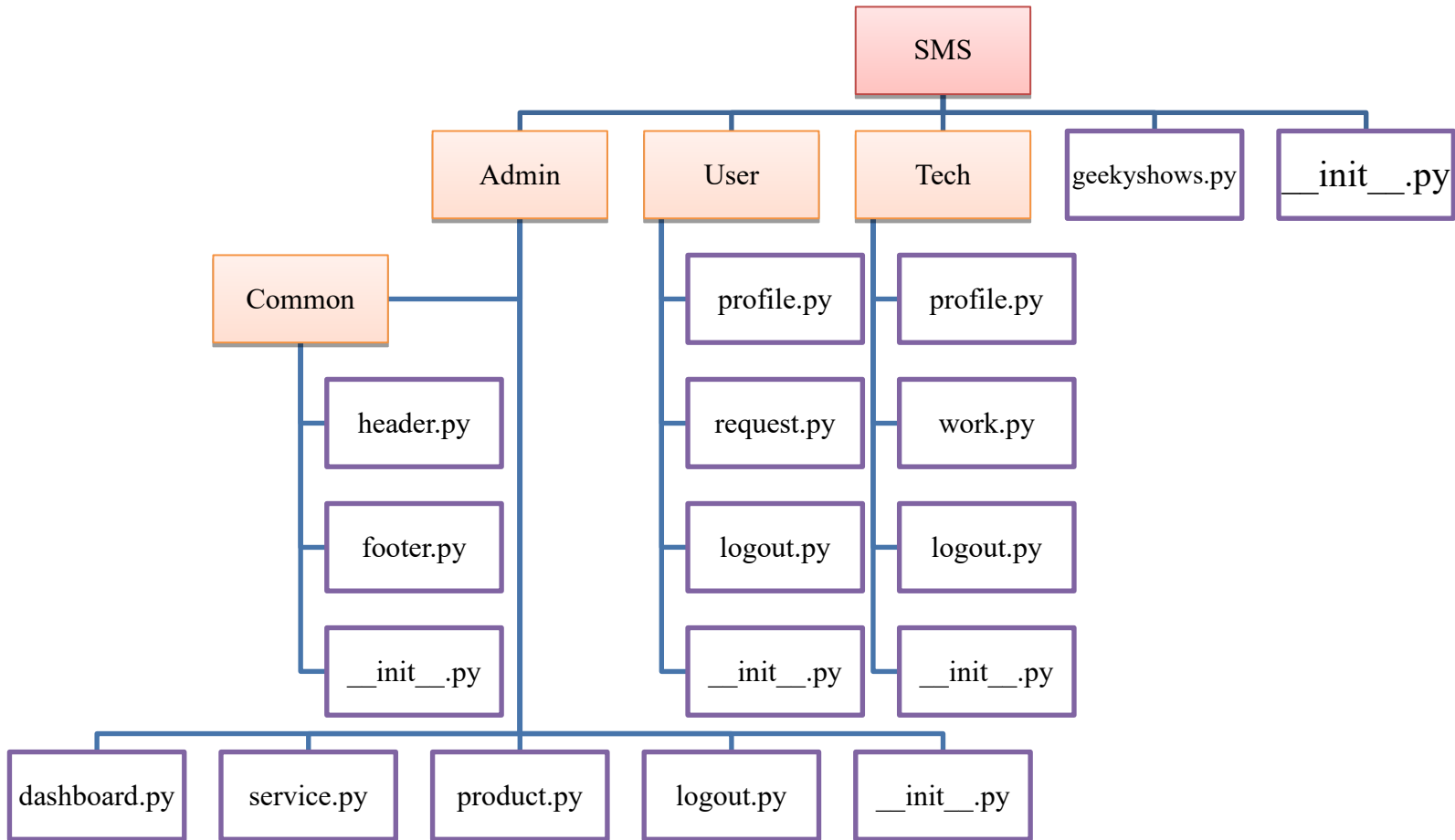Package is nothing but a Directory/Folder

Creating Package

Package is nothing but a Directory/Folder which MUST contain a special file called *__init__.py*.

__init__.py file can be empty, it indicates that the directory it contains is a Python package, so it can be imported the same way a module can be imported.

SMS
├── Admin
│   ├── Common
│   │   ├── header.py
│   │   ├── footer.py
│   │   └── __init__.py
│   ├── dashboard.py
│   ├── service.py
│   ├── product.py
│   ├── logout.py
│   └── __init__.py
├── User
│   ├── profile.py
│   ├── request.py
│   ├── logout.py
│   └── __init__.py
├── Tech
│   ├── profile.py
│   ├── work.py
│   ├── logout.py
│   └── __init__.py
├── geekyshows.py
└── __init__.py

How to use Package

Syntax:- import packageName**.**moduleName

Syntax:- import packageName**.**subPackageName**.**moduleName

Ex:- import Admin.service

Ex:- import Admin.Common.footer

How to Access Variable, Function, Method, Class etc. ?

Syntax:- packageName**.**moduleName.functionName()

Syntax:- packageName**.**subPackageName**.**moduleName.functionName()

Ex:- Admin.service.admin_service( )

Ex:- Admin.Common.footer.admin_common_footer( )

How to use Package

Syntax:- from packageName import moduleName

Syntax:- from packageName.subPackageName import moduleName

Ex:- from Admin import service

Ex:- from Admin.Common import footer

How to Access Variable, Function, Method, Class etc.

Syntax:- moduleName.functionName()

Ex:-

service.admin_service( )

footer.admin_common_footer( )

How to use Package

Syntax:- from packageName**.**moduleName import fun_name

Syntax:- from packageName**.**subPackageName**.**moduleName import fun_name

Ex:- from Admin.service import admin_service

Ex:- from Admin.Common.footer import admin_common_footer

How to Access Variable, Function, Method, Class etc.

Syntax:- functionName()

Ex:-

admin_service( )

admin_common_footer( )

How to use Package

Syntax:- from packageName import *

Syntax:- from packageName.subPackageName import *

Ex:- from Admin import *

Ex:- from Admin.Common import *

How to Access Variable, Function, Method, Class etc.

Syntax:- moduleName.functionName()

Ex:-

service.admin_service( )

footer.admin_common_footer( )

__all__

if a package's __init__.py code defines a list named __all__, it is taken to be the list of module names that should be imported when from package import * is encountered.

__all__ = ['dashboard', 'service', 'product']