

# msaUtils Module

## `.gen_ref_pages`

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Generate the code reference pages and navigation.

## Functions

### format\_pip\_result


```
format_pip_result(pip_result, version)
```

Internal support function, there should be no need to call this directly

### generate\_code\_reference\_documentation

```
generate_code_reference_documentation(  
    virtual_ref_nav_path: str = "reference",  
    ref_md_file: str = "SUMMARY.md",  
    virtual_requirements_nav_path: str = "requirements",  
    req_md_file: str = "requirements.md",  
    source_path: str = "msaUtils",  
    source_file_type_filter: str = "*.py",  
    requirement_file: str = "requirements.txt",  
    md_file_type: str = ".md",  
    recreate_pip_info: bool = False,  
    exclude_functions: List[str] = [  
        "__init__",  
        "__main__",  
        "main",  
        "run",  
    ],  
    pkl_info_file: str = "docs/saved_req_package_pip_info.pkl",  
)
```

Generates the virtual mkdocs md files and adds them to the navigation.

 **Note**

That is the function you should call from mkdocs with mkdocs.yml config:

```
- gen-files:
  scripts:
    - docs/gen_ref_pages.py
```

In that gen\_ref\_pages.py call: generate\_code\_reference\_documentation()

Scans the requirement file and gets pip show info for each package and stores it to a pickle file.

PARAMETER	DESCRIPTION
<code>virtual_ref_nav_path</code>	internal node name for the created reference docu <b>TYPE:</b> <code>str</code> <b>DEFAULT:</b> <code>'reference'</code>
<code>ref_md_file</code>	str = reference md file, shouldn't be changed <b>TYPE:</b> <code>str</code> <b>DEFAULT:</b> <code>'SUMMARY.md'</code>
<code>virtual_requirements_nav_path</code>	str = the virtual nav path <b>TYPE:</b> <code>str</code> <b>DEFAULT:</b> <code>'requirements'</code>
<code>req_md_file</code>	name of the requirement md file <b>TYPE:</b> <code>str</code> <b>DEFAULT:</b> <code>'requirements.md'</code>
<code>source_path</code>	the path to the package/source code root to document everything below and in that dir <b>TYPE:</b> <code>str</code> <b>DEFAULT:</b> <code>'msaUtils'</code>
<code>source_file_type_filter</code>	filetype to document, should be .py <b>TYPE:</b> <code>str</code> <b>DEFAULT:</b> <code>'*.py'</code>
<code>requirement_file</code>	name of the requirement file to analyze for used libraries <b>TYPE:</b> <code>str</code> <b>DEFAULT:</b> <code>'requirements.txt'</code>
<code>md_file_type</code>	md file filetype, should be .md <b>TYPE:</b> <code>str</code> <b>DEFAULT:</b> <code>'.md'</code>
<code>recreate_pip_info</code>	recreate the pip analyze, when you changed requirement file, you also can just delete the pkl file <b>TYPE:</b> <code>bool</code> <b>DEFAULT:</b> <code>False</code>

PARAMETER	DESCRIPTION
<code>exclude_functions</code>	list of functions to exclude <b>TYPE:</b> <code>List[str]</code> <b>DEFAULT:</b> <code>['__init__', '__main__', 'main', 'run']</code>
<code>pkl_info_file</code>	str = the filepathname of the pkl file to store the pip information result <b>TYPE:</b> <code>str</code> <b>DEFAULT:</b> <code>'docs/saved_req_package_pip_info.pkl'</code>

## generate\_sub\_process\_result

```
generate_sub_process_result(requirement_file) -> dict
```

Internal support function, there should be no need to call this directly

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