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Q1) Provide a template sphinx command line commands which auto documents your project. Explain what each flag and each element of your command do.

To generate auto documentation in our project using Sphinx, you can use the following command line command:

sphinx-apidoc [OPTIONS] -o <output_dir> <source_dir>

Now we break down the command into its components:

1) sphinx- apidoc : This command is used to initializes the Sphinx auto doc tool. It is used to automatically generate API documentation for Python projects.

2) [OPTIONS] : These are optional flags that you can include to customize the behavior of Sphinx.

3) -o <output_dir>: This option specifies the directory where the generated documentation files will be saved.

4) <source_dir>: This is the path to the directory containing the source code of your project.

Sphinx will scan this directory to extract the information and generate the documentation.

Q2) What flag should you add if you use implicit name spaces in your project ?

Now regarding implicit name spaces we can add the -F flag to the sphinx - apidoc command. The -F flag tells Sphinx to create a separate page for each module and include sub modules in the documentation structure. This is useful in cases where modules are organized in packages or subdirectories in project structure.

sphinx-apidoc -F -o docs/source myproject/

In this example, the docs/source directory will be created to store the generated documentation files, and Sphinx will scan the my project/ directory for source code and generate the documentation accordingly.