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To add the name clashing functionality to my plugin from homework 2, I used the PsiElementDirectory and the PsiElement classes. These classes were of use in order to allow access to the directories and the actual files within those directories. I then iterated through the contents of the files from within the directories and compared the main names that the user used as input for the new desired design pattern. I did not manage to get to the unit tests for this assignments but I know that my new functions and implementation work from inspection and manual tests.

The plugins main functionality of creating the desired design pattern still works as intended with this new addition but there is a very slight issue. The issue with my implementation of the name clash functionality is that the user must have clicked on the src directory prior to using the DePaCoG plugin from the Tools menu. Though I am not 100% sure yet as to why this is, I have a feeling it is because I used the IdeView class. From my research and trial and errors, I found that IdeView was more user friendly for me as I was struggling with the PsiFile as found in the provided IntelliJ documentation. Despite this, my implementation works as intended.

The addition to my plugin does not prevent any creation of the design patterns. It simply lets the user know that the newly created files have names that are repeated and then shows which files and from which directories. My initial plan was to create my own exception and throw that exception the moment all the clashes were found. This led me to realize that this form of displaying the clashing names and their locations was not the best in my opinion because it could potentially be ignored. So instead I made a message window that would display the message telling the user that the names used in the new design pattern files had name clashes with other files and I displayed the file names and location in that window and logged the same message.

Another thing that I should point out about my implementation is that I made sure that comments were excluded from the name clashing and that the default names were also excluded from the name clashes. Initially I did not take into consideration the possibility of comments being counted until I got a name clash from a comment while testing my implementation. My reason for excluding the default names was because it would greatly increase the error message and it would be a little bit irrelevant since they default values not specific names input by the user.

I wish I had more time to implement the other design patterns from homework 1 but I was not able to at this time. As a challenge I will try to implement the remaining design patterns in the future and try to better my implementation of these assignments as I feel that I can do better if I spend more time researching and understanding how to utilize IntelliJ to the fullest.