**Remove commented lines from the repository**

We can remove commented lines from a repository using Git. However, Git itself *doesn't have a built-in feature* specifically designed for this task because comments can be in various formats and are often language-dependent. Instead, you can use a combination of Git and text processing tools like grep, sed, or **awk** to achieve this.

**I have choose the AWK.**

Because Awk is a compiled language. Your Awk script is compiled once and applied to every line of your file at C-like speeds.

**Steps:**

1. Choose the repository or folder where you perform.

We can use git bash here to execute the AWK commands.

To Check AWK is installed: awk --version.

1. **Identify Comment Styles:**

You need to identify the comment style used in the code-base, as it may vary depending on the programming language (e.g., // for JavaScript, # for Python, /\* \*/ for C/C++, etc.).

1. **Use Text Processing Tools:**

Once you've identified the comment style, you can use awk to filter out the commented lines and create a new version of the files without the comments.

For example, if you want to remove lines starting with // (common in java scripts) from the repository, you can use the following command:

To remove commented lines from single file,

**Ex**. awk '!/^[[:space:]]\*\/\//' input\_file > output\_file

awk '!/^[[:space:]]\*\/\//' environment.test.ts > output\_file.ts.

Here, No need to create output file, just delete the commented lines and write output in same file.

**Ex**. awk '!/^[[:space:]]\*\/\//' input\_file > temp\_file && mv temp\_file input\_file

awk '!/^[[:space:]]\*\/\//' environment.test.ts > temp\_file && mv temp\_file environment.test.ts

If you want to remove comments from multiple files in a directory, you can use a for loop in combination with awk to process each file one by one and overwrite the files in place. Here's a bash script that does this:

#!/bin/bash

# Specify the directory containing your code files

code\_dir="**/d/Projects/Partnes-MCO/AzureRepo/Repo\_2\_compare/WAF\_Partners\_Angular/MCS**"

# Loop through all code files in the directory

for file in "$code\_dir"/\*; do

# Check if the file is a regular file (not a directory)

if [ -f "$file" ]; then

# Use awk to remove lines starting with //

awk '!/^[[:space:]]\*\/\//' "$file" > temp\_file && mv temp\_file "$file"

echo "Removed comments from: $file"

fi

Done

**Ex #2:** SQL Command style for multiple lines /\* \*/

awk **'!/\/\\*.\*\\*\//'** tsconfig.json > temp\_file && mv temp\_file tsconfig.json

**Ex #3:** SQL Command style for single line -- (Double hyphen)

awk '!/^[[:space:]]\*--/' input\_file > temp\_file && mv temp\_file input\_file

1. **Review Changes:**

After running the above command (or a similar one tailored to your specific comment style), review the changes to ensure nothing critical was removed. Make sure your code still functions as expected.

1. Commit Changes