Add log4j API to generate logs:

What is log?

Capture information at the time of program execution.

For e.g.when we run our code in a remote machine,we cannot open the browswe each time,instead we can check the logs to know what is going on with the program execution.

Very important in terms of:

1.debugging the code

2.at run time,to check null pointer or any type of exception. And reason behind them like file is missing or invalid format.

3.different failures

Types of logs:

1.info

2.warning

3.error

4.fatal

How to generate logs?

We use APACHE log4j API

How it works?

It reads log4j configuration from log4j.properties file.

Now,we need to create log4j.properties file.

Where to create?

Create inside resources source folder.

Steps:

1.include log4j dependency in pom.xml

2.create a src folder

Proj🡪new>source folder🡪src/main/resources folder

3.create log4j.properties file

Inside thid->create a file🡪log4j.properties(L shd be lowercase)

4.write key value pair code inside.

#Set level

//we have to generate logs in debug mode,in console and also in separate file.

log4j.rootCategory=debug, console, file

# Appender which writes to console

//pattern layout is standard date and time format.

log4j.appender.console=org.apache.log4j.ConsoleAppender

log4j.appender.console.layout=org.apache.log4j.PatternLayout

log4j.appender.console.layout.ConversionPattern=%d{MM-dd-yyyy HH:mm:ss} %F %-5p [%t] %c**{2}** %L - %m%n

# Appender which writes to a file

log4j.appender.file=org.apache.log4j.RollingFileAppender

log4j.appender.file.File=application.log

// application.log is the name of log file

# Defining maximum size of a log file

log4j.appender.file.MaxFileSize=10mb

log4j.appender.file.MaxBackupIndex=10

log4j.appender.file.layout=org.apache.log4j.PatternLayout

log4j.appender.file.layout.ConversionPattern=%d{ISO8601} %5p [%t] %c**{1}**:%L - %m%n

log4j.appender.file.Append=false

if we give log4j.appender.file.Append=true,it appends the logs with previous logs.

How to generate our own logs?

1.at class level,define a logger class.

Logger log=Logger.*getLogger*(Logintest.**class**);//login test is the class name

driver = **new** ChromeDriver();

log.info("Lauching chrome browser");

driver.get("https://ui.freecrm.com/");

log.info("Lauching url");