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---- START OF FILE: /home/henrik/Projekter/AppFramework/docs/Doxygen/latex/Makefile ----
LATEX_CMD=pdflatex

all: refman.pdf

pdf: refman.pdf

refman.pdf: clean refman.tex
    $(LATEX_CMD) refman
    makeindex refman.idx
    $(LATEX_CMD) refman
    latex_count=8 ; \
    while egrep -s 'Rerun (LaTeX|to get cross-references right)' refman.log
&& [ $$latex_count -gt 0 ] ; \
    do \
        echo "Rerunning latex...." ; \
        $(LATEX_CMD) refman ; \
        latex_count=`expr $$latex_count - 1` ; \
    done
    makeindex refman.idx
    $(LATEX_CMD) refman

clean:
    rm -f *.ps *.dvi *.aux *.toc *.idx *.ind *.ilg *.log *.out *.brf *.blg *.bbl refman.pdf
---- END OF FILE: /home/henrik/Projekter/AppFramework/docs/Doxygen/latex/Makefile ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/Makefile ----
#
# This file is part of the AppFramework project.
#
# AppFramework is free software: you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation, GPL version 4.
#
# AppFramework is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License version 4 for more details.
#
# You should have received a copy of the GNU General Public License
# along with AppFramework. If not, see <https://www.gnu.org/licenses/>.
#

.PHONY: rebuild clean git-add git-commit git-push list-targets help

rebuild:
    @COMPILER_FLAGS=$(shell cat config/active_flags.conf) \
    rm -rf build/ && \
    mkdir build && \
    cd build && \
    cmake .. $$COMPILER_FLAGS && \
    make
    @echo "Project Rebuild Complete"

mr-proper:
    @if [ -d "build" ]; then \
        rm -rf build\
    else \
        echo "Build directory does not exist"; \
    fi

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    fi
clean:
    @if [ -d "build" ]; then \
        cd build && make clean; \
        cd ..; \
        echo "Cleaned build directory"; \
    else \
        echo "Build directory does not exist"; \
    fi
# Git-related targets
git-add:
    @echo "Adding all changes to Git..."
    git add .

git-commit:
    @echo "Committing changes..."
    git commit

git-push:
    @echo "Pushing to remote repository..."
    git push

list-targets:
    @grep -E '^[a-zA-Z0-9_-]+:' $(MAKEFILE_LIST) | awk -F':' '{print $1}' | \
    grep -v '^list-targets$$'

todo-list:
    @echo "Listing all TODOs in the project..."
    @grep -rn '//Todo:' . --exclude=Makefile
# Define the help message
HELP_MSG := "\
Available targets:\n\
    rebuild          :Rebuild the project\n\
    clean            :Clean the project\n\
    mr-proper        :Remove the build directory\n\
    git-add          :Add all changes to Git\n\
    git-commit       :Commit changes to Git\n\
    git-push         :Push changes to the remote repository\n\
    list-targets:    :List all available targets\n\
    help             :Display this help message\n"

# The default target is 'help', so running 'make' or 'make help' will display the help message.
help:
    @echo $(HELP_MSG)---- END OF FILE: /home/henrik/Projekter/AppFramework/Makefile ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/build/Makefile ----
# CMAKE generated file: DO NOT EDIT!
# Generated by "Unix Makefiles" Generator, CMake Version 3.22

# Default target executed when no arguments are given to make.
default_target: all
.PHONY : default_target

# Allow only one "make -f Makefile2" at a time, but pass parallelism.
.NOTPARALLEL:

=====
# Special targets provided by cmake.

# Disable implicit rules so canonical targets will work.

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<pre>.SUFFIXES:  # Disable VCS-based implicit rules. % : %,v  # Disable VCS-based implicit rules. % : RCS/%  # Disable VCS-based implicit rules. % : RCS/%,v  # Disable VCS-based implicit rules. % : SCCS/s.%  # Disable VCS-based implicit rules. % : s.%  .SUFFIXES: .hpxux_make_needs_suffix_list  # Command-line flag to silence nested \$(MAKE). \$(VERBOSE)MAKESILENT = -s  # Suppress display of executed commands. \$(VERBOSE).SILENT:  # A target that is always out of date. cmake_force: .PHONY : cmake_force  ===== # Set environment variables for the build.  # The shell in which to execute make rules. SHELL = /bin/sh  # The CMake executable. CMAKE_COMMAND = /usr/bin/cmake  # The command to remove a file. RM = /usr/bin/cmake -E rm -f  # Escaping for special characters. EQUALS = =  # The top-level source directory on which CMake was run. CMAKE_SOURCE_DIR = /home/henrik/Projekter/AppFramework  # The top-level build directory on which CMake was run. CMAKE_BINARY_DIR = /home/henrik/Projekter/AppFramework/build  ===== # Targets provided globally by CMake.  # Special rule for the target edit_cache edit_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "No inter active CMake dialog available..."     /usr/bin/cmake -E echo No\ interactive\ CMake\ dialog\ available. .PHONY : edit_cache  # Special rule for the target edit_cache edit_cache/fast: edit_cache</pre>		

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<pre>.PHONY : edit_cache/fast  # Special rule for the target rebuild_cache rebuild_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "Running CMake to regenerate build system..."     /usr/bin/cmake --regenerate-during-build -S\$(CMAKE_SOURCE_DIR) -B\$(CMAKE _BINARY_DIR) .PHONY : rebuild_cache  # Special rule for the target rebuild_cache rebuild_cache/fast: rebuild_cache .PHONY : rebuild_cache/fast  # The main all target all: cmake_check_build_system     \$(CMAKE_COMMAND) -E cmake_progress_start /home/henrik/Projekter/AppFrame work/build/CMakeFiles /home/henrik/Projekter/AppFramework/build//CMakeFiles/prog ress.marks     \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 all     \$(CMAKE_COMMAND) -E cmake_progress_start /home/henrik/Projekter/AppFrame work/build/CMakeFiles 0 .PHONY : all  # The main clean target clean:     \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 clean .PHONY : clean  # The main clean target clean/fast: clean .PHONY : clean/fast  # Prepare targets for installation. preinstall: all     \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 preinstall .PHONY : preinstall  # Prepare targets for installation. preinstall/fast:     \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 preinstall .PHONY : preinstall/fast  # clear depends depend:     \$(CMAKE_COMMAND) -S\$(CMAKE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-bui ld-system CMakeFiles/Makefile.cmake 1 .PHONY : depend  ===== # Target rules for targets named main  # Build rule for target. main: cmake_check_build_system     \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 main .PHONY : main  # fast build rule for target. main/fast:     \$(MAKE) \$(MAKESILENT) -f CMakeFiles/main.dir/build.make CMakeFiles/main. dir/build .PHONY : main/fast</pre>		

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<pre> #===== # Target rules for targets named TimeUtils  # Build rule for target. TimeUtils: cmake_check_build_system       \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 TimeUtils .PHONY : TimeUtils  # fast build rule for target. TimeUtils/fast:       \$(MAKE) \$(MAKESILENT) -f subprojects/TimeUtils/CMakeFiles/TimeUtils.dir/build.make subprojects/TimeUtils/CMakeFiles/TimeUtils.dir/build .PHONY : TimeUtils/fast  #===== # Target rules for targets named StringUtils  # Build rule for target. StringUtils: cmake_check_build_system       \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 StringUtils .PHONY : StringUtils  # fast build rule for target. StringUtils/fast:       \$(MAKE) \$(MAKESILENT) -f subprojects/StringUtils/CMakeFiles/StringUtils.dir/build.make subprojects/StringUtils/CMakeFiles/StringUtils.dir/build .PHONY : StringUtils/fast  #===== # Target rules for targets named Logger  # Build rule for target. Logger: cmake_check_build_system       \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 Logger .PHONY : Logger  # fast build rule for target. Logger/fast:       \$(MAKE) \$(MAKESILENT) -f subprojects/Logger/CMakeFiles/Logger.dir/build.make subprojects/Logger/CMakeFiles/Logger.dir/build .PHONY : Logger/fast  #===== # Target rules for targets named EnvVar  # Build rule for target. EnvVar: cmake_check_build_system       \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 EnvVar .PHONY : EnvVar  # fast build rule for target. EnvVar/fast:       \$(MAKE) \$(MAKESILENT) -f subprojects/EnvVar/CMakeFiles/EnvVar.dir/build.make subprojects/EnvVar/CMakeFiles/EnvVar.dir/build .PHONY : EnvVar/fast  #===== # Target rules for targets named UiManager  # Build rule for target. UiManager: cmake_check_build_system </pre>		

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<pre>       \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 UiManager .PHONY : UiManager  # fast build rule for target. UiManager/fast:       \$(MAKE) \$(MAKESILENT) -f subprojects/UiManager/CMakeFiles/UiManager.dir/build.make subprojects/UiManager/CMakeFiles/UiManager.dir/build .PHONY : UiManager/fast  #===== # Target rules for targets named CommandLineProcessor  # Build rule for target. CommandLineProcessor: cmake_check_build_system       \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 CommandLineProcessor .PHONY : CommandLineProcessor  # fast build rule for target. CommandLineProcessor/fast:       \$(MAKE) \$(MAKESILENT) -f subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build .PHONY : CommandLineProcessor/fast  src/main.o: src/main.cpp.o .PHONY : src/main.o  # target to build an object file src/main.cpp.o:       \$(MAKE) \$(MAKESILENT) -f CMakeFiles/main.dir/build.make CMakeFiles/main.dir/src/main.cpp.o .PHONY : src/main.cpp.o  src/main.i: src/main.cpp.i .PHONY : src/main.i  # target to preprocess a source file src/main.cpp.i:       \$(MAKE) \$(MAKESILENT) -f CMakeFiles/main.dir/build.make CMakeFiles/main.dir/src/main.cpp.i .PHONY : src/main.cpp.i  src/main.s: src/main.cpp.s .PHONY : src/main.s  # target to generate assembly for a file src/main.cpp.s:       \$(MAKE) \$(MAKESILENT) -f CMakeFiles/main.dir/build.make CMakeFiles/main.dir/src/main.cpp.s .PHONY : src/main.cpp.s  # Help Target help:       @echo "The following are some of the valid targets for this Makefile:"       @echo "... all (the default if no target is provided)"       @echo "... clean"       @echo "... depend"       @echo "... edit_cache"       @echo "... rebuild_cache"       @echo "... CommandLineProcessor"       @echo "... EnvVar"       @echo "... Logger" </pre>		

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<pre> @echo "... StringUtils" @echo "... TimeUtils" @echo "... UiManager" @echo "... main" @echo "... src/main.o" @echo "... src/main.i" @echo "... src/main.s" .PHONY : help  ===== # Special targets to cleanup operation of make.  # Special rule to run CMake to check the build system integrity. # No rule that depends on this can have commands that come from listfiles # because they might be regenerated. cmake_check_build_system:     \$(CMAKE_COMMAND) -S\$(CMAKE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-bui ld-system CMakeFiles/Makefile.cmake 0 .PHONY : cmake_check_build_system  ---- END OF FILE: /home/henrik/Projekter/AppFramework/build/Makefile ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/build/CMakeFiles/3.22.1/ CompilerIdCXX/CMakeCXXCompilerId.cpp ---- /* This source file must have a .cpp extension so that all C++ compilers recognize the extension without flags. Borland does not know .cxx for example. */ #ifdef __cplusplus # error "A C compiler has been selected for C++." #endif  #if !defined(__has_include) /* If the compiler does not have __has_include, pretend the answer is always no. */ # define __has_include(x) 0 #endif  /* Version number components: V=Version, R=Revision, P=Patch Version date components: YYYY=Year, MM=Month, DD=Day */  #if defined(__COMO__) # define COMPILER_ID "Comeau" /* __COMO_VERSION__ = VRR */ # define COMPILER_VERSION_MAJOR DEC(__COMO_VERSION__ / 100) # define COMPILER_VERSION_MINOR DEC(__COMO_VERSION__ % 100)  #elif defined(__INTEL_COMPILER)    defined(__ICC) # define COMPILER_ID "Intel" # if defined(_MSC_VER) # define SIMULATE_ID "MSVC" # endif # if defined(__GNUC__) # define SIMULATE_ID "GNU" # endif /* __INTEL_COMPILER = VRP prior to 2021, and then VVVV for 2021 and later, except that a few beta releases use the old format with V=2021. */ # if __INTEL_COMPILER &lt; 2021    __INTEL_COMPILER == 202110    __INTEL_COMPILER = = 202111 # define COMPILER_VERSION_MAJOR DEC(__INTEL_COMPILER/100) </pre>		

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<pre> # define COMPILER_VERSION_MINOR DEC(__INTEL_COMPILER/10 % 10) # if defined(__INTEL_COMPILER_UPDATE) # define COMPILER_VERSION_PATCH DEC(__INTEL_COMPILER_UPDATE) # else # define COMPILER_VERSION_PATCH DEC(__INTEL_COMPILER % 10) # endif # else # define COMPILER_VERSION_MAJOR DEC(__INTEL_COMPILER) # define COMPILER_VERSION_MINOR DEC(__INTEL_COMPILER_UPDATE) /* The third version component from --version is an update index, but no macro is provided for it. */ # define COMPILER_VERSION_PATCH DEC(0) # endif # if defined(__INTEL_COMPILER_BUILD_DATE) /* __INTEL_COMPILER_BUILD_DATE = YYYYMMDD */ # define COMPILER_VERSION_TWEAK DEC(__INTEL_COMPILER_BUILD_DATE) # endif # if defined(_MSC_VER) /* _MSC_VER = VVRR */ # define SIMULATE_VERSION_MAJOR DEC(_MSC_VER / 100) # define SIMULATE_VERSION_MINOR DEC(_MSC_VER % 100) # endif # if defined(__GNUC__) # define SIMULATE_VERSION_MAJOR DEC(__GNUC__) # elif defined(__GNUG__) # define SIMULATE_VERSION_MAJOR DEC(__GNUG__) # endif # if defined(__GNUC_MINOR__) # define SIMULATE_VERSION_MINOR DEC(__GNUC_MINOR__) # endif # if defined(__GNUC_PATCHLEVEL__) # define SIMULATE_VERSION_PATCH DEC(__GNUC_PATCHLEVEL__) # endif  #elif (defined(__clang__) &amp;&amp; defined(__INTEL_CLANG_COMPILER))    defined(__INTEL _LLVM_COMPILER) # define COMPILER_ID "IntelLLVM" # if defined(_MSC_VER) # define SIMULATE_ID "MSVC" # endif # if defined(__GNUC__) # define SIMULATE_ID "GNU" # endif /* __INTEL_LLVM_COMPILER = VVVVRP prior to 2021.2.0, VVVVRRPP for 2021.2.0 and * later. Look for 6 digit vs. 8 digit version number to decide encoding. * VVVV is no smaller than the current year when a version is released. */ # if __INTEL_LLVM_COMPILER &lt; 1000000L # define COMPILER_VERSION_MAJOR DEC(__INTEL_LLVM_COMPILER/100) # define COMPILER_VERSION_MINOR DEC(__INTEL_LLVM_COMPILER/10 % 10) # define COMPILER_VERSION_PATCH DEC(__INTEL_LLVM_COMPILER % 10) # else # define COMPILER_VERSION_MAJOR DEC(__INTEL_LLVM_COMPILER/10000) # define COMPILER_VERSION_MINOR DEC(__INTEL_LLVM_COMPILER/100 % 100) # define COMPILER_VERSION_PATCH DEC(__INTEL_LLVM_COMPILER % 100) # endif # if defined(_MSC_VER) /* _MSC_VER = VVRR */ # define SIMULATE_VERSION_MAJOR DEC(_MSC_VER / 100) # define SIMULATE_VERSION_MINOR DEC(_MSC_VER % 100) # endif # if defined(__GNUC__) </pre>		

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<pre># define SIMULATE_VERSION_MAJOR DEC (__GNUC__) #elif defined(__GNUG__) # define SIMULATE_VERSION_MAJOR DEC (__GNUG__) #endif #if defined(__GNUC_MINOR__) # define SIMULATE_VERSION_MINOR DEC (__GNUC_MINOR__) #endif #if defined(__GNUC_PATCHLEVEL__) # define SIMULATE_VERSION_PATCH DEC (__GNUC_PATCHLEVEL__) #endif  #elif defined(__PATHCC__) # define COMPILER_ID "PathScale" # define COMPILER_VERSION_MAJOR DEC (__PATHCC__) # define COMPILER_VERSION_MINOR DEC (__PATHCC_MINOR__) # if defined(__PATHCC_PATCHLEVEL__) # define COMPILER_VERSION_PATCH DEC (__PATHCC_PATCHLEVEL__) # endif  #elif defined(__BORLANDC__) &amp;&amp; defined(__CODEGEARC_VERSION__) # define COMPILER_ID "Embarcadero" # define COMPILER_VERSION_MAJOR HEX (__CODEGEARC_VERSION__&gt;&gt;24 &amp; 0x00FF) # define COMPILER_VERSION_MINOR HEX (__CODEGEARC_VERSION__&gt;&gt;16 &amp; 0x00FF) # define COMPILER_VERSION_PATCH DEC (__CODEGEARC_VERSION__ &amp; 0xFFFF)  #elif defined(__BORLANDC__) # define COMPILER_ID "Borland" /* __BORLANDC__ = 0xVRR */ # define COMPILER_VERSION_MAJOR HEX (__BORLANDC__&gt;&gt;8) # define COMPILER_VERSION_MINOR HEX (__BORLANDC__ &amp; 0xFF)  #elif defined(__WATCOMC__) &amp;&amp; __WATCOMC__ &lt; 1200 # define COMPILER_ID "Watcom" /* __WATCOMC__ = VVRR */ # define COMPILER_VERSION_MAJOR DEC (__WATCOMC__ / 100) # define COMPILER_VERSION_MINOR DEC ((__WATCOMC__ / 10) % 10) # if (__WATCOMC__ % 10) &gt; 0 # define COMPILER_VERSION_PATCH DEC (__WATCOMC__ % 10) # endif  #elif defined(__WATCOMC__) # define COMPILER_ID "OpenWatcom" /* __WATCOMC__ = VVRP + 1100 */ # define COMPILER_VERSION_MAJOR DEC ((__WATCOMC__ - 1100) / 100) # define COMPILER_VERSION_MINOR DEC ((__WATCOMC__ / 10) % 10) # if (__WATCOMC__ % 10) &gt; 0 # define COMPILER_VERSION_PATCH DEC (__WATCOMC__ % 10) # endif  #elif defined(__SUNPRO_CC) # define COMPILER_ID "SunPro" # if __SUNPRO_CC &gt;= 0x5100 /* __SUNPRO_CC = 0xVRRP */ # define COMPILER_VERSION_MAJOR HEX (__SUNPRO_CC&gt;&gt;12) # define COMPILER_VERSION_MINOR HEX (__SUNPRO_CC&gt;&gt;4 &amp; 0xFF) # define COMPILER_VERSION_PATCH HEX (__SUNPRO_CC &amp; 0xF) # else /* __SUNPRO_CC = 0xVRP */ # define COMPILER_VERSION_MAJOR HEX (__SUNPRO_CC&gt;&gt;8) # define COMPILER_VERSION_MINOR HEX (__SUNPRO_CC&gt;&gt;4 &amp; 0xF) # define COMPILER_VERSION_PATCH HEX (__SUNPRO_CC &amp; 0xF) # endif #endif</pre>		

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<pre>#elif defined(__HP_aCC) # define COMPILER_ID "HP" /* __HP_aCC = VVRRPP */ # define COMPILER_VERSION_MAJOR DEC (__HP_aCC/10000) # define COMPILER_VERSION_MINOR DEC (__HP_aCC/100 % 100) # define COMPILER_VERSION_PATCH DEC (__HP_aCC % 100)  #elif defined(__DECCXX) # define COMPILER_ID "Compaq" /* __DECCXX_VER = VVRRTPPPP */ # define COMPILER_VERSION_MAJOR DEC (__DECCXX_VER/10000000) # define COMPILER_VERSION_MINOR DEC (__DECCXX_VER/100000 % 100) # define COMPILER_VERSION_PATCH DEC (__DECCXX_VER % 10000)  #elif defined(__IBMCPP__) &amp;&amp; defined(__COMPILER_VER__) # define COMPILER_ID "zOS" /* __IBMCPP__ = VRP */ # define COMPILER_VERSION_MAJOR DEC (__IBMCPP__/100) # define COMPILER_VERSION_MINOR DEC (__IBMCPP__/10 % 10) # define COMPILER_VERSION_PATCH DEC (__IBMCPP__ % 10)  #elif defined(__ibmxl__) &amp;&amp; defined(__clang__) # define COMPILER_ID "XLClang" # define COMPILER_VERSION_MAJOR DEC (__ibmxl_version__) # define COMPILER_VERSION_MINOR DEC (__ibmxl_release__) # define COMPILER_VERSION_PATCH DEC (__ibmxl_modification__) # define COMPILER_VERSION_TWEAK DEC (__ibmxl_ptf_fix_level__)  #elif defined(__IBMCPP__) &amp;&amp; !defined(__COMPILER_VER__) &amp;&amp; __IBMCPP__ &gt;= 800 # define COMPILER_ID "XL" /* __IBMCPP__ = VRP */ # define COMPILER_VERSION_MAJOR DEC (__IBMCPP__/100) # define COMPILER_VERSION_MINOR DEC (__IBMCPP__/10 % 10) # define COMPILER_VERSION_PATCH DEC (__IBMCPP__ % 10)  #elif defined(__IBMCPP__) &amp;&amp; !defined(__COMPILER_VER__) &amp;&amp; __IBMCPP__ &lt; 800 # define COMPILER_ID "VisualAge" /* __IBMCPP__ = VRP */ # define COMPILER_VERSION_MAJOR DEC (__IBMCPP__/100) # define COMPILER_VERSION_MINOR DEC (__IBMCPP__/10 % 10) # define COMPILER_VERSION_PATCH DEC (__IBMCPP__ % 10)  #elif defined(__NVCOMPILER) # define COMPILER_ID "NVHPC" # define COMPILER_VERSION_MAJOR DEC (__NVCOMPILER_MAJOR__) # define COMPILER_VERSION_MINOR DEC (__NVCOMPILER_MINOR__) # if defined(__NVCOMPILER_PATCHLEVEL__) # define COMPILER_VERSION_PATCH DEC (__NVCOMPILER_PATCHLEVEL__) # endif  #elif defined(__PGI) # define COMPILER_ID "PGI" # define COMPILER_VERSION_MAJOR DEC (__PGIC__) # define COMPILER_VERSION_MINOR DEC (__PGIC_MINOR__) # if defined(__PGIC_PATCHLEVEL__) # define COMPILER_VERSION_PATCH DEC (__PGIC_PATCHLEVEL__) # endif  #elif defined(__CRAYC) # define COMPILER_ID "Cray"</pre>		

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<pre># define COMPILER_VERSION_MAJOR DEC(_RELEASE_MAJOR) # define COMPILER_VERSION_MINOR DEC(_RELEASE_MINOR)  #elif defined(__TI_COMPILER_VERSION__) # define COMPILER_ID "TI" /* __TI_COMPILER_VERSION__ = VVRRRRPPP */ # define COMPILER_VERSION_MAJOR DEC(__TI_COMPILER_VERSION__/1000000) # define COMPILER_VERSION_MINOR DEC(__TI_COMPILER_VERSION__/1000 % 1000) # define COMPILER_VERSION_PATCH DEC(__TI_COMPILER_VERSION__ % 1000)  #elif defined(__CLANG_FUJITSU) # define COMPILER_ID "FujitsuClang" # define COMPILER_VERSION_MAJOR DEC(__FCC_major__) # define COMPILER_VERSION_MINOR DEC(__FCC_minor__) # define COMPILER_VERSION_PATCH DEC(__FCC_patchlevel__) # define COMPILER_VERSION_INTERNAL_STR __clang_version__  #elif defined(__FUJITSU) # define COMPILER_ID "Fujitsu" # if defined(__FCC_version__) #   define COMPILER_VERSION __FCC_version__ # elif defined(__FCC_major__) #   define COMPILER_VERSION_MAJOR DEC(__FCC_major__) #   define COMPILER_VERSION_MINOR DEC(__FCC_minor__) #   define COMPILER_VERSION_PATCH DEC(__FCC_patchlevel__) # endif # if defined(__fcc_version) #   define COMPILER_VERSION_INTERNAL DEC(__fcc_version) # elif defined(__FCC_VERSION) #   define COMPILER_VERSION_INTERNAL DEC(__FCC_VERSION) # endif  #elif defined(__ghs__) # define COMPILER_ID "GHS" /* __GHS_VERSION_NUMBER = VVVVRP */ # ifdef __GHS_VERSION_NUMBER #   define COMPILER_VERSION_MAJOR DEC(__GHS_VERSION_NUMBER / 100) #   define COMPILER_VERSION_MINOR DEC(__GHS_VERSION_NUMBER / 10 % 10) #   define COMPILER_VERSION_PATCH DEC(__GHS_VERSION_NUMBER % 10) # endif  #elif defined(__SCO_VERSION__) # define COMPILER_ID "SCO"  #elif defined(__ARMCC_VERSION) &amp;&amp; !defined(__clang__) # define COMPILER_ID "ARMCC" #if __ARMCC_VERSION &gt;= 1000000 /* __ARMCC_VERSION = VRRPPPP */ #   define COMPILER_VERSION_MAJOR DEC(__ARMCC_VERSION/1000000) #   define COMPILER_VERSION_MINOR DEC(__ARMCC_VERSION/10000 % 100) #   define COMPILER_VERSION_PATCH DEC(__ARMCC_VERSION % 10000) #else /* __ARMCC_VERSION = VRPPPP */ #   define COMPILER_VERSION_MAJOR DEC(__ARMCC_VERSION/100000) #   define COMPILER_VERSION_MINOR DEC(__ARMCC_VERSION/10000 % 10) #   define COMPILER_VERSION_PATCH DEC(__ARMCC_VERSION % 10000) #endif  #elif defined(__clang__) &amp;&amp; defined(__apple_build_version__)</pre>		

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<pre># define COMPILER_ID "AppleClang" # if defined(_MSC_VER) #   define SIMULATE_ID "MSVC" # endif # define COMPILER_VERSION_MAJOR DEC(__clang_major__) # define COMPILER_VERSION_MINOR DEC(__clang_minor__) # define COMPILER_VERSION_PATCH DEC(__clang_patchlevel__) # if defined(_MSC_VER) /* _MSC_VER = VVRR */ #   define SIMULATE_VERSION_MAJOR DEC(_MSC_VER / 100) #   define SIMULATE_VERSION_MINOR DEC(_MSC_VER % 100) # endif # define COMPILER_VERSION_TWEAK DEC(__apple_build_version__)  #elif defined(__clang__) &amp;&amp; defined(__ARMCOMPILER_VERSION) # define COMPILER_ID "ARMClang" #   define COMPILER_VERSION_MAJOR DEC(__ARMCOMPILER_VERSION/1000000) #   define COMPILER_VERSION_MINOR DEC(__ARMCOMPILER_VERSION/10000 % 100) #   define COMPILER_VERSION_PATCH DEC(__ARMCOMPILER_VERSION % 10000) #   define COMPILER_VERSION_INTERNAL DEC(__ARMCOMPILER_VERSION)  #elif defined(__clang__) # define COMPILER_ID "Clang" # if defined(_MSC_VER) #   define SIMULATE_ID "MSVC" # endif # define COMPILER_VERSION_MAJOR DEC(__clang_major__) # define COMPILER_VERSION_MINOR DEC(__clang_minor__) # define COMPILER_VERSION_PATCH DEC(__clang_patchlevel__) # if defined(_MSC_VER) /* _MSC_VER = VVRR */ #   define SIMULATE_VERSION_MAJOR DEC(_MSC_VER / 100) #   define SIMULATE_VERSION_MINOR DEC(_MSC_VER % 100) # endif  #elif defined(__GNUC__)    defined(__GNUG__) # define COMPILER_ID "GNU" # if defined(__GNUC__) #   define COMPILER_VERSION_MAJOR DEC(__GNUC__) # else #   define COMPILER_VERSION_MAJOR DEC(__GNUG__) # endif # if defined(__GNUC_MINOR__) #   define COMPILER_VERSION_MINOR DEC(__GNUC_MINOR__) # endif # if defined(__GNUC_PATCHLEVEL__) #   define COMPILER_VERSION_PATCH DEC(__GNUC_PATCHLEVEL__) # endif  #elif defined(_MSC_VER) # define COMPILER_ID "MSVC" /* _MSC_VER = VVRR */ # define COMPILER_VERSION_MAJOR DEC(_MSC_VER / 100) # define COMPILER_VERSION_MINOR DEC(_MSC_VER % 100) # if defined(_MSC_FULL_VER) #   if _MSC_VER &gt;= 1400 /* _MSC_FULL_VER = VVRRPPPP */ #     define COMPILER_VERSION_PATCH DEC(_MSC_FULL_VER % 100000) #   else /* _MSC_FULL_VER = VVRRPPPP */ #     define COMPILER_VERSION_PATCH DEC(_MSC_FULL_VER % 10000) #   endif # else #   define COMPILER_VERSION_PATCH DEC(_MSC_VER % 10000) # endif # endif</pre>		

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<pre> # endif # if defined(_MSC_BUILD) #   define COMPILER_VERSION_TWEAK DEC(_MSC_BUILD) # endif  #elif defined(__VISUALDSPVERSION__)    defined(__ADSPBLACKFIN__)    defined(__AD SPTS__)    defined(__ADSP21000__) #   define COMPILER_ID "ADSP" # if defined(__VISUALDSPVERSION__) /* __VISUALDSPVERSION__ = 0xVVRP00 */ #   define COMPILER_VERSION_MAJOR HEX(__VISUALDSPVERSION__&gt;&gt;24) #   define COMPILER_VERSION_MINOR HEX(__VISUALDSPVERSION__&gt;&gt;16 &amp; 0xFF) #   define COMPILER_VERSION_PATCH HEX(__VISUALDSPVERSION__&gt;&gt;8 &amp; 0xFF) # endif  #elif defined(__IAR_SYSTEMS_ICC__)    defined(__IAR_SYSTEMS_ICC) #   define COMPILER_ID "IAR" #   if defined(__VER__) &amp;&amp; defined(__ICCARM__) #     define COMPILER_VERSION_MAJOR DEC((__VER__) / 1000000) #     define COMPILER_VERSION_MINOR DEC(((__VER__) / 1000) % 1000) #     define COMPILER_VERSION_PATCH DEC((__VER__) % 1000) #     define COMPILER_VERSION_INTERNAL DEC(__IAR_SYSTEMS_ICC__) #   elif defined(__VER__) &amp;&amp; (defined(__ICCAVR__)    defined(__ICCRX__)    defined (__ICRH850__)    defined(__ICRHL78__)    defined(__ICC430__)    defined(__ICCRL SCV__)    defined(__ICCV850__)    defined(__ICC8051__)    defined(__ICSTM8__)) #     define COMPILER_VERSION_MAJOR DEC((__VER__) / 100) #     define COMPILER_VERSION_MINOR DEC((__VER__) - (((__VER__) / 100)*100)) #     define COMPILER_VERSION_PATCH DEC(__SUBVERSION__) #     define COMPILER_VERSION_INTERNAL DEC(__IAR_SYSTEMS_ICC__) #   endif  /* These compilers are either not known or too old to define an identification macro. Try to identify the platform and guess that it is the native compiler. */ #elif defined(__hpux)    defined(__hpua) #   define COMPILER_ID "HP"  #else /* unknown compiler */ #   define COMPILER_ID "" # endif  /* Construct the string literal in pieces to prevent the source from getting matched. Store it in a pointer rather than an array because some compilers will just produce instructions to fill the array rather than assigning a pointer to a static array. */ char const* info_compiler = "INFO" ":" "compiler[" COMPILER_ID "]"; #ifdef SIMULATE_ID char const* info_simulate = "INFO" ":" "simulate[" SIMULATE_ID "]"; #endif  #ifdef __QNXNTO__ char const* qnxnto = "INFO" ":" "qnxnto[]"; #endif  #if defined(__CRAYXT_COMPUTE_LINUX_TARGET) char const *info_cray = "INFO" ":" "compiler_wrapper[CrayPrgEnv]"; #endif  #define STRINGIFY_HELPER(X) #X #define STRINGIFY(X) STRINGIFY_HELPER(X) </pre>		

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<pre> /* Identify known platforms by name. */ #if defined(__linux)    defined(__linux__)    defined(linux) #   define PLATFORM_ID "Linux"  #elif defined(__MSYS__) #   define PLATFORM_ID "MSYS"  #elif defined(__CYGWIN__) #   define PLATFORM_ID "Cygwin"  #elif defined(__MINGW32__) #   define PLATFORM_ID "MinGW"  #elif defined(__APPLE__) #   define PLATFORM_ID "Darwin"  #elif defined(__WIN32__)    defined(__WIN32)    defined(WIN32) #   define PLATFORM_ID "Windows"  #elif defined(__FreeBSD__)    defined(__FreeBSD) #   define PLATFORM_ID "FreeBSD"  #elif defined(__NetBSD__)    defined(__NetBSD) #   define PLATFORM_ID "NetBSD"  #elif defined(__OpenBSD__)    defined(__OPENBSD) #   define PLATFORM_ID "OpenBSD"  #elif defined(__sun)    defined(sun) #   define PLATFORM_ID "SunOS"  #elif defined(_AIX)    defined(__AIX)    defined(__AIX__)    defined(__aix)    d efined(__aix__) #   define PLATFORM_ID "AIX"  #elif defined(__hpux)    defined(__hpux__) #   define PLATFORM_ID "HP-UX"  #elif defined(__HAIKU__) #   define PLATFORM_ID "Haiku"  #elif defined(__BeOS)    defined(__BEOS__)    defined(_BEOS) #   define PLATFORM_ID "BeOS"  #elif defined(__QNX__)    defined(__QNXNTO__) #   define PLATFORM_ID "QNX"  #elif defined(__tru64)    defined(_tru64)    defined(__TRU64__) #   define PLATFORM_ID "Tru64"  #elif defined(__riscos)    defined(__riscos__) #   define PLATFORM_ID "RISCos"  #elif defined(__sinix)    defined(__sinix__)    defined(__SINIX__) #   define PLATFORM_ID "SINIX"  #elif defined(__UNIX_SV__) #   define PLATFORM_ID "UNIX_SV"  #elif defined(__bsdos__) #   define PLATFORM_ID "BSDOS" </pre>		

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<pre>#elif defined(_MPRAS)    defined(MPRAS) # define PLATFORM_ID "MP-RAS"  #elif defined(__osf)    defined(__osf__) # define PLATFORM_ID "OSF1"  #elif defined(_SCO_SV)    defined(SCO_SV)    defined(sco_sv) # define PLATFORM_ID "SCO_SV"  #elif defined(__ultrix)    defined(__ultrix__)    defined(_ULTRIX) # define PLATFORM_ID "ULTRIX"  #elif defined(_XENIX__)    defined(_XENIX)    defined(XENIX) # define PLATFORM_ID "Xenix"  #elif defined(__WATCOMC__) # if defined(__LINUX__) # define PLATFORM_ID "Linux"  # elif defined(__DOS__) # define PLATFORM_ID "DOS"  # elif defined(__OS2__) # define PLATFORM_ID "OS2"  # elif defined(__WINDOWS__) # define PLATFORM_ID "Windows3x"  # elif defined(__VXWORKS__) # define PLATFORM_ID "VxWorks"  # else /* unknown platform */ # define PLATFORM_ID # endif  #elif defined(__INTEGRITY) # if defined(INT_178B) # define PLATFORM_ID "Integrity178"  # else /* regular Integrity */ # define PLATFORM_ID "Integrity" # endif  #else /* unknown platform */ # define PLATFORM_ID  #endif  /* For windows compilers MSVC and Intel we can determine the architecture of the compiler being used. This is because the compilers do not have flags that can change the architecture, but rather depend on which compiler is being used */ #if defined(WIN32) &amp;&amp; defined(_MSC_VER) # if defined(_M_IA64) # define ARCHITECTURE_ID "IA64"  # elif defined(_M_ARM64EC) # define ARCHITECTURE_ID "ARM64EC"  # elif defined(_M_X64)    defined(_M_AMD64) # define ARCHITECTURE_ID "x64"</pre>		

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<pre># elif defined(_M_IX86) # define ARCHITECTURE_ID "X86"  # elif defined(_M_ARM64) # define ARCHITECTURE_ID "ARM64"  # elif defined(_M_ARM) # if _M_ARM == 4 # define ARCHITECTURE_ID "ARMV4I" # elif _M_ARM == 5 # define ARCHITECTURE_ID "ARMV5I" # else # define ARCHITECTURE_ID "ARMV" STRINGIFY(_M_ARM) # endif  # elif defined(_M_MIPS) # define ARCHITECTURE_ID "MIPS"  # elif defined(_M_SH) # define ARCHITECTURE_ID "SHx"  # else /* unknown architecture */ # define ARCHITECTURE_ID "" # endif  #elif defined(__WATCOMC__) # if defined(_M_I86) # define ARCHITECTURE_ID "I86"  # elif defined(_M_IX86) # define ARCHITECTURE_ID "X86"  # else /* unknown architecture */ # define ARCHITECTURE_ID "" # endif  #elif defined(__IAR_SYSTEMS_ICC__)    defined(__IAR_SYSTEMS_ICC) # if defined(__ICCARM__) # define ARCHITECTURE_ID "ARM"  # elif defined(__ICCRX__) # define ARCHITECTURE_ID "RX"  # elif defined(__ICCRH850__) # define ARCHITECTURE_ID "RH850"  # elif defined(__ICCRL78__) # define ARCHITECTURE_ID "RL78"  # elif defined(__ICCRISCV__) # define ARCHITECTURE_ID "RISCV"  # elif defined(__ICCAVR__) # define ARCHITECTURE_ID "AVR"  # elif defined(__ICC430__) # define ARCHITECTURE_ID "MSP430"  # elif defined(__ICCV850__) # define ARCHITECTURE_ID "V850"</pre>		



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<pre># elif defined(__ICC8051__) #   define ARCHITECTURE_ID "8051"  # elif defined(__ICSTM8__) #   define ARCHITECTURE_ID "STM8"  # else /* unknown architecture */ #   define ARCHITECTURE_ID "" # endif  #elif defined(__ghs__) # if defined(__PPC64__) #   define ARCHITECTURE_ID "PPC64"  # elif defined(__ppc__) #   define ARCHITECTURE_ID "PPC"  # elif defined(__ARM__) #   define ARCHITECTURE_ID "ARM"  # elif defined(__x86_64__) #   define ARCHITECTURE_ID "x64"  # elif defined(__i386__) #   define ARCHITECTURE_ID "X86"  # else /* unknown architecture */ #   define ARCHITECTURE_ID "" # endif  #elif defined(__TI_COMPILER_VERSION__) # if defined(__TI_ARM__) #   define ARCHITECTURE_ID "ARM"  # elif defined(__MSP430__) #   define ARCHITECTURE_ID "MSP430"  # elif defined(__TMS320C28XX__) #   define ARCHITECTURE_ID "TMS320C28x"  # elif defined(__TMS320C6X__)    defined(_TMS320C6X) #   define ARCHITECTURE_ID "TMS320C6x"  # else /* unknown architecture */ #   define ARCHITECTURE_ID "" # endif  #else #   define ARCHITECTURE_ID #endif  /* Convert integer to decimal digit literals. */ #define DEC(n) \ ('0' + ((n) / 10000000) % 10), \ ('0' + ((n) / 1000000) % 10), \ ('0' + ((n) / 100000) % 10), \ ('0' + ((n) / 10000) % 10), \ ('0' + ((n) / 1000) % 10), \ ('0' + ((n) / 100) % 10), \ ('0' + ((n) / 10) % 10), \ ('0' + ((n) % 10))</pre>		

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<pre>/* Convert integer to hex digit literals. */ #define HEX(n) \ ('0' + ((n) &gt;&gt; 28 &amp; 0xF)), \ ('0' + ((n) &gt;&gt; 24 &amp; 0xF)), \ ('0' + ((n) &gt;&gt; 20 &amp; 0xF)), \ ('0' + ((n) &gt;&gt; 16 &amp; 0xF)), \ ('0' + ((n) &gt;&gt; 12 &amp; 0xF)), \ ('0' + ((n) &gt;&gt; 8 &amp; 0xF)), \ ('0' + ((n) &gt;&gt; 4 &amp; 0xF)), \ ('0' + ((n) &amp; 0xF))  /* Construct a string literal encoding the version number. */ #ifdef COMPILER_VERSION char const* info_version = "INFO" ":" "compiler_version[" COMPILER_VERSION "];"  /* Construct a string literal encoding the version number components. */ #elif defined(COMPILER_VERSION_MAJOR) char const info_version[] = {     'I', 'N', 'F', 'O', ':',     'c', 'o', 'm', 'p', 'i', 'l', 'e', 'r', '_', 'v', 'e', 'r', 's', 'i', 'o', 'n', '[',     COMPILER_VERSION_MAJOR, # ifdef COMPILER_VERSION_MINOR     '.', COMPILER_VERSION_MINOR, #   ifdef COMPILER_VERSION_PATCH     '.', COMPILER_VERSION_PATCH, #   ifdef COMPILER_VERSION_TWEAK     '.', COMPILER_VERSION_TWEAK, #   endif #   endif #   endif     ']', '\0'}; #endif  /* Construct a string literal encoding the internal version number. */ #ifdef COMPILER_VERSION_INTERNAL char const info_version_internal[] = {     'I', 'N', 'F', 'O', ':',     'c', 'o', 'm', 'p', 'i', 'l', 'e', 'r', '_', 'v', 'e', 'r', 's', 'i', 'o', 'n', '_',     'i', 'n', 't', 'e', 'r', 'n', 'a', 'l', '[',     COMPILER_VERSION_INTERNAL, ']', '\0'}; #elif defined(COMPILER_VERSION_INTERNAL_STR) char const* info_version_internal = "INFO" ":" "compiler_version_internal[" COMPILER_VERSION_INTERNAL_STR "];" #endif  /* Construct a string literal encoding the version number components. */ #ifdef SIMULATE_VERSION_MAJOR char const info_simulate_version[] = {     'I', 'N', 'F', 'O', ':',     's', 'i', 'm', 'u', 'l', 'a', 't', 'e', '_', 'v', 'e', 'r', 's', 'i', 'o', 'n', '[',     SIMULATE_VERSION_MAJOR, # ifdef SIMULATE_VERSION_MINOR     '.', SIMULATE_VERSION_MINOR, #   ifdef SIMULATE_VERSION_PATCH     '.', SIMULATE_VERSION_PATCH, #   ifdef SIMULATE_VERSION_TWEAK     '.', SIMULATE_VERSION_TWEAK, #   endif #   endif #   endif     ']', '\0'}; #endif</pre>		

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	<pre> /* Construct the string literal in pieces to prevent the source from    getting matched.  Store it in a pointer rather than an array    because some compilers will just produce instructions to fill the    array rather than assigning a pointer to a static array. */ char const* info_platform = "INFO" ":" "platform[" PLATFORM_ID "]"; char const* info_arch = "INFO" ":" "arch[" ARCHITECTURE_ID "];  #if defined(__INTEL_COMPILER) &amp;&amp; defined(_MSVC_LANG) &amp;&amp; _MSVC_LANG &lt; 201403L # if defined(__INTEL_CXX11_MODE__) #   if defined(__cpp_aggregate_nsdmi) #     define CXX_STD 201402L #   else #     define CXX_STD 201103L #   endif # else #   define CXX_STD 199711L # endif #elif defined(_MSC_VER) &amp;&amp; defined(_MSVC_LANG) # define CXX_STD _MSVC_LANG #else # define CXX_STD __cplusplus #endif  const char* info_language_standard_default = "INFO" ":" "standard_default[" #if CXX_STD &gt; 202002L "23" #elif CXX_STD &gt; 201703L "20" #elif CXX_STD &gt;= 201703L "17" #elif CXX_STD &gt;= 201402L "14" #elif CXX_STD &gt;= 201103L "11" #else "98" #endif "]";  const char* info_language_extensions_default = "INFO" ":" "extensions_default[" /* !defined(_MSC_VER) to exclude Clang's MSVC compatibility mode. */ #if (defined(__clang__)    defined(__GNUC__)         defined(__TI_COMPILER_VERSION__)) &amp;&amp; \     !defined(__STRICT_ANSI__) &amp;&amp; !defined(_MSC_VER) "ON" #else "OFF" #endif "]";  /*-----*/  int main(int argc, char* argv[]) {     int require = 0;     require += info_compiler[argc];     require += info_platform[argc];     #ifdef COMPILER_VERSION_MAJOR         require += info_version[argc]; </pre>	

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	<pre> #endif #ifdef COMPILER_VERSION_INTERNAL     require += info_version_internal[argc]; #endif #ifdef SIMULATE_ID     require += info_simulate[argc]; #endif #ifdef SIMULATE_VERSION_MAJOR     require += info_simulate_version[argc]; #endif #ifdef _CRAYXT_COMPUTE_LINUX_TARGET     require += info_cray[argc]; #endif     require += info_language_standard_default[argc];     require += info_language_extensions_default[argc];     (void)argv;     return require; }  ---- END OF FILE: /home/henrik/Projekter/AppFramework/build/CMakeFiles/3.22.1/Co mpilerIdCXX/CMakeCXXCompilerId.cpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/Logger /Makefile ---- # CMAKE generated file: DO NOT EDIT! # Generated by "Unix Makefiles" Generator, CMake Version 3.22  # Default target executed when no arguments are given to make. default_target: all .PHONY : default_target  # Allow only one "make -f Makefile2" at a time, but pass parallelism. .NOTPARALLEL:  #===== # Special targets provided by cmake.  # Disable implicit rules so canonical targets will work. .SUFFIXES:  # Disable VCS-based implicit rules. % : %,v  # Disable VCS-based implicit rules. % : RCS/%  # Disable VCS-based implicit rules. % : RCS/%,v  # Disable VCS-based implicit rules. % : SCCS/s.%  # Disable VCS-based implicit rules. % : s.%  .SUFFIXES: .hpux_make_needs_suffix_list  # Command-line flag to silence nested \$(MAKE). \$(VERBOSE)MAKESILENT = -s  # Suppress display of executed commands. \$(VERBOSE).SILENT: </pre>	

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<pre># A target that is always out of date. cmake_force: .PHONY : cmake_force  #===== # Set environment variables for the build.  # The shell in which to execute make rules. SHELL = /bin/sh  # The CMake executable. CMAKE_COMMAND = /usr/bin/cmake  # The command to remove a file. RM = /usr/bin/cmake -E rm -f  # Escaping for special characters. EQUALS = =  # The top-level source directory on which CMake was run. CMAKE_SOURCE_DIR = /home/henrik/Projekter/AppFramework  # The top-level build directory on which CMake was run. CMAKE_BINARY_DIR = /home/henrik/Projekter/AppFramework/build  #===== # Targets provided globally by CMake.  # Special rule for the target edit_cache edit_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "No inter active CMake dialog available..."     /usr/bin/cmake -E echo No\ interactive\ CMake\ dialog\ available. .PHONY : edit_cache  # Special rule for the target edit_cache edit_cache/fast: edit_cache .PHONY : edit_cache/fast  # Special rule for the target rebuild_cache rebuild_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "Running CMake to regenerate build system..."     /usr/bin/cmake --regenerate-during-build -S\$(CMAKE_SOURCE_DIR) -B\$(CMAKE _BINARY_DIR) .PHONY : rebuild_cache  # Special rule for the target rebuild_cache rebuild_cache/fast: rebuild_cache .PHONY : rebuild_cache/fast  # The main all target all: cmake_check_build_system     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -E cmak e_progress_start /home/henrik/Projekter/AppFramework/build/CMakeFiles /home/henr ik/Projekter/AppFramework/build/subprojects/Logger//CMakeFiles/progress.marks     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/Logger/all     \$(CMAKE_COMMAND) -E cmake_progress_start /home/henrik/Projekter/AppFrame work/build/CMakeFiles 0 .PHONY : all</pre>		

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<pre># The main clean target clean:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/Logger/clean .PHONY : clean  # The main clean target clean/fast: clean .PHONY : clean/fast  # Prepare targets for installation. preinstall: all     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/Logger/preinstall .PHONY : preinstall  # Prepare targets for installation. preinstall/fast:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/Logger/preinstall .PHONY : preinstall/fast  # clear depends depend:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -S\$(CMA KE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cm ake 1 .PHONY : depend  # Convenience name for target. subprojects/Logger/CMakeFiles/Logger.dir/rule:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/Logger/CMakeFiles/Logger.dir/rule .PHONY : subprojects/Logger/CMakeFiles/Logger.dir/rule  # Convenience name for target. Logger: subprojects/Logger/CMakeFiles/Logger.dir/rule .PHONY : Logger  # fast build rule for target. Logger/fast:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/Logger/CMakeFiles/Logger.dir/build.make subprojects/Logger/CMakeFil es/Logger.dir/build .PHONY : Logger/fast  Logger.o: Logger.cpp.o .PHONY : Logger.o  # target to build an object file Logger.cpp.o:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/Logger/CMakeFiles/Logger.dir/build.make subprojects/Logger/CMakeFil es/Logger.dir/Logger.cpp.o .PHONY : Logger.cpp.o  Logger.i: Logger.cpp.i .PHONY : Logger.i  # target to preprocess a source file Logger.cpp.i:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f</pre>		

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subprojects/Logger/CMakeFiles/Logger.dir/build.make subprojects/Logger/CMakeFiles/Logger.dir/Logger.cpp.i
.PHONY : Logger.cpp.i

Logger.s: Logger.cpp.s
.PHONY : Logger.s

# target to generate assembly for a file
Logger.cpp.s:
    cd /home/henrik/Projekter/AppFramework/build && $(MAKE) $(MAKESILENT) -f
subprojects/Logger/CMakeFiles/Logger.dir/build.make subprojects/Logger/CMakeFiles/Logger.dir/Logger.cpp.s
.PHONY : Logger.cpp.s

# Help Target
help:
    @echo "The following are some of the valid targets for this Makefile:"
    @echo "... all (the default if no target is provided)"
    @echo "... clean"
    @echo "... depend"
    @echo "... edit_cache"
    @echo "... rebuild_cache"
    @echo "... Logger"
    @echo "... Logger.o"
    @echo "... Logger.i"
    @echo "... Logger.s"
.PHONY : help

#=====
# Special targets to cleanup operation of make.

# Special rule to run CMake to check the build system integrity.
# No rule that depends on this can have commands that come from listfiles
# because they might be regenerated.
cmake_check_build_system:
    cd /home/henrik/Projekter/AppFramework/build && $(CMAKE_COMMAND) -S$(CMAKE_SOURCE_DIR) -B$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cmake 0
.PHONY : cmake_check_build_system

---- END OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/Logger/Makefile ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/UiManager/Makefile ----
# CMAKE generated file: DO NOT EDIT!
# Generated by "Unix Makefiles" Generator, CMake Version 3.22

# Default target executed when no arguments are given to make.
default_target: all
.PHONY : default_target

# Allow only one "make -f Makefile2" at a time, but pass parallelism.
.NOTPARALLEL:

#=====
# Special targets provided by cmake.

# Disable implicit rules so canonical targets will work.
.SUFFIXES:

```

```

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# Disable VCS-based implicit rules.
% : %,v

# Disable VCS-based implicit rules.
% : RCS/%

# Disable VCS-based implicit rules.
% : RCS/%,v

# Disable VCS-based implicit rules.
% : SCCS/s.%

# Disable VCS-based implicit rules.
% : s.%

.SUFFIXES: .hpux_make_needs_suffix_list

# Command-line flag to silence nested $(MAKE).
$(VERBOSE)MAKESILENT = -s

# Suppress display of executed commands.
$(VERBOSE).SILENT:

# A target that is always out of date.
cmake_force:
.PHONY : cmake_force

#=====
# Set environment variables for the build.

# The shell in which to execute make rules.
SHELL = /bin/sh

# The CMake executable.
CMAKE_COMMAND = /usr/bin/cmake

# The command to remove a file.
RM = /usr/bin/cmake -E rm -f

# Escaping for special characters.
EQUALS = =

# The top-level source directory on which CMake was run.
CMAKE_SOURCE_DIR = /home/henrik/Projekter/AppFramework

# The top-level build directory on which CMake was run.
CMAKE_BINARY_DIR = /home/henrik/Projekter/AppFramework/build

#=====
# Targets provided globally by CMake.

# Special rule for the target edit_cache
edit_cache:
    @$(CMAKE_COMMAND) -E cmake_echo_color --switch=$(COLOR) --cyan "No interactive CMake dialog available..."
    /usr/bin/cmake -E echo No\ interactive\ CMake\ dialog\ available.
.PHONY : edit_cache

# Special rule for the target edit_cache
edit_cache/fast: edit_cache
.PHONY : edit_cache/fast

```

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<pre> # Special rule for the target rebuild_cache rebuild_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "Running CMake to regenerate build system..."     /usr/bin/cmake --regenerate-during-build -S\$(CMAKE_SOURCE_DIR) -B\$(CMAKE _BINARY_DIR) .PHONY : rebuild_cache  # Special rule for the target rebuild_cache rebuild_cache/fast: rebuild_cache .PHONY : rebuild_cache/fast  # The main all target all: cmake_check_build_system     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -E cmak e_progress_start /home/henrik/Projekter/AppFramework/build/CMakeFiles /home/henr ik/Projekter/AppFramework/build/subprojects/UiManager//CMakeFiles/progress.marks     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/UiManager/all     \$(CMAKE_COMMAND) -E cmake_progress_start /home/henrik/Projekter/AppFrame work/build/CMakeFiles 0 .PHONY : all  # The main clean target clean:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/UiManager/clean .PHONY : clean  # The main clean target clean/fast: clean .PHONY : clean/fast  # Prepare targets for installation. preinstall: all     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/UiManager/preinstall .PHONY : preinstall  # Prepare targets for installation. preinstall/fast:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/UiManager/preinstall .PHONY : preinstall/fast  # clear depends depend:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -S\$(CMA KE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cm ake 1 .PHONY : depend  # Convenience name for target. subprojects/UiManager/CMakeFiles/UiManager.dir/rule:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/UiManager/CMakeFiles/UiManager.dir/rule .PHONY : subprojects/UiManager/CMakeFiles/UiManager.dir/rule  # Convenience name for target. UiManager: subprojects/UiManager/CMakeFiles/UiManager.dir/rule .PHONY : UiManager </pre>		

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<pre> # fast build rule for target. UiManager/fast:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/UiManager/CMakeFiles/UiManager.dir/build.make subprojects/UiManager /CMakeFiles/UiManager.dir/build .PHONY : UiManager/fast  UiManager.o: UiManager.cpp.o .PHONY : UiManager.o  # target to build an object file UiManager.cpp.o:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/UiManager/CMakeFiles/UiManager.dir/build.make subprojects/UiManager /CMakeFiles/UiManager.dir/UiManager.cpp.o .PHONY : UiManager.cpp.o  UiManager.i: UiManager.cpp.i .PHONY : UiManager.i  # target to preprocess a source file UiManager.cpp.i:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/UiManager/CMakeFiles/UiManager.dir/build.make subprojects/UiManager /CMakeFiles/UiManager.dir/UiManager.cpp.i .PHONY : UiManager.cpp.i  UiManager.s: UiManager.cpp.s .PHONY : UiManager.s  # target to generate assembly for a file UiManager.cpp.s:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/UiManager/CMakeFiles/UiManager.dir/build.make subprojects/UiManager /CMakeFiles/UiManager.dir/UiManager.cpp.s .PHONY : UiManager.cpp.s  # Help Target help:     @echo "The following are some of the valid targets for this Makefile:"     @echo "... all (the default if no target is provided)"     @echo "... clean"     @echo "... depend"     @echo "... edit_cache"     @echo "... rebuild_cache"     @echo "... UiManager"     @echo "... UiManager.o"     @echo "... UiManager.i"     @echo "... UiManager.s" .PHONY : help  #####  # Special targets to cleanup operation of make.  # Special rule to run CMake to check the build system integrity. # No rule that depends on this can have commands that come from listfiles # because they might be regenerated. cmake_check_build_system:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -S\$(CMA </pre>		

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<pre> KE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cmake 0 .PHONY : cmake_check_build_system  ---- END OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/UiManager/Makefile ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/EnvVar/Makefile ---- # CMAKE generated file: DO NOT EDIT! # Generated by "Unix Makefiles" Generator, CMake Version 3.22  # Default target executed when no arguments are given to make. default_target: all .PHONY : default_target  # Allow only one "make -f Makefile2" at a time, but pass parallelism. .NOTPARALLEL:  #===== # Special targets provided by cmake.  # Disable implicit rules so canonical targets will work. .SUFFIXES:  # Disable VCS-based implicit rules. % : %,v  # Disable VCS-based implicit rules. % : RCS/%  # Disable VCS-based implicit rules. % : RCS/%,v  # Disable VCS-based implicit rules. % : SCCS/s.%  # Disable VCS-based implicit rules. % : s.%  .SUFFIXES: .hpux_make_needs_suffix_list  # Command-line flag to silence nested \$(MAKE). \$(VERBOSE)MAKESILENT = -s  # Suppress display of executed commands. \$(VERBOSE).SILENT:  # A target that is always out of date. cmake_force: .PHONY : cmake_force  #===== # Set environment variables for the build.  # The shell in which to execute make rules. SHELL = /bin/sh  # The CMake executable. CMAKE_COMMAND = /usr/bin/cmake  # The command to remove a file. </pre>		

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<pre> RM = /usr/bin/cmake -E rm -f  # Escaping for special characters. EQUALS = =  # The top-level source directory on which CMake was run. CMAKE_SOURCE_DIR = /home/henrik/Projekter/AppFramework  # The top-level build directory on which CMake was run. CMAKE_BINARY_DIR = /home/henrik/Projekter/AppFramework/build  #===== # Targets provided globally by CMake.  # Special rule for the target edit_cache edit_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "No interactive CMake dialog available..."     /usr/bin/cmake -E echo No\ interactive\ CMake\ dialog\ available. .PHONY : edit_cache  # Special rule for the target edit_cache edit_cache/fast: edit_cache .PHONY : edit_cache/fast  # Special rule for the target rebuild_cache rebuild_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "Running CMake to regenerate build system..."     /usr/bin/cmake --regenerate-during-build -S\$(CMAKE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) .PHONY : rebuild_cache  # Special rule for the target rebuild_cache rebuild_cache/fast: rebuild_cache .PHONY : rebuild_cache/fast  # The main all target all: cmake_check_build_system     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -E cmake_progress_start /home/henrik/Projekter/AppFramework/build/CMakeFiles /home/henrik/Projekter/AppFramework/build/subprojects/EnvVar/CMakeFiles/progress.marks     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/EnvVar/all     \$(CMAKE_COMMAND) -E cmake_progress_start /home/henrik/Projekter/AppFramework/build/CMakeFiles 0 .PHONY : all  # The main clean target clean:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/EnvVar/clean .PHONY : clean  # The main clean target clean/fast: clean .PHONY : clean/fast  # Prepare targets for installation. preinstall: all     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/EnvVar/preinstall </pre>		

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<pre>.PHONY : preinstall  # Prepare targets for installation. preinstall/fast:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     CMakeFiles/Makefile2 subprojects/EnvVar/preinstall .PHONY : preinstall/fast  # clear depends depend:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -S\$(CMA KE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cm ake 1 .PHONY : depend  # Convenience name for target. subprojects/EnvVar/CMakeFiles/EnvVar.dir/rule:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     CMakeFiles/Makefile2 subprojects/EnvVar/CMakeFiles/EnvVar.dir/rule .PHONY : subprojects/EnvVar/CMakeFiles/EnvVar.dir/rule  # Convenience name for target. EnvVar: subprojects/EnvVar/CMakeFiles/EnvVar.dir/rule .PHONY : EnvVar  # fast build rule for target. EnvVar/fast:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/EnvVar/CMakeFiles/EnvVar.dir/build.make subprojects/EnvVar/CMakeFil es/EnvVar.dir/build .PHONY : EnvVar/fast  EnvVar.o: EnvVar.cpp.o .PHONY : EnvVar.o  # target to build an object file EnvVar.cpp.o:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/EnvVar/CMakeFiles/EnvVar.dir/build.make subprojects/EnvVar/CMakeFil es/EnvVar.dir/EnvVar.cpp.o .PHONY : EnvVar.cpp.o  EnvVar.i: EnvVar.cpp.i .PHONY : EnvVar.i  # target to preprocess a source file EnvVar.cpp.i:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/EnvVar/CMakeFiles/EnvVar.dir/build.make subprojects/EnvVar/CMakeFil es/EnvVar.dir/EnvVar.cpp.i .PHONY : EnvVar.cpp.i  EnvVar.s: EnvVar.cpp.s .PHONY : EnvVar.s  # target to generate assembly for a file EnvVar.cpp.s:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/EnvVar/CMakeFiles/EnvVar.dir/build.make subprojects/EnvVar/CMakeFil es/EnvVar.dir/EnvVar.cpp.s .PHONY : EnvVar.cpp.s</pre>		

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<pre># Help Target help:     @echo "The following are some of the valid targets for this Makefile:"     @echo "... all (the default if no target is provided)"     @echo "... clean"     @echo "... depend"     @echo "... edit_cache"     @echo "... rebuild_cache"     @echo "... EnvVar"     @echo "... EnvVar.o"     @echo "... EnvVar.i"     @echo "... EnvVar.s" .PHONY : help  ##### # Special targets to cleanup operation of make.  # Special rule to run CMake to check the build system integrity. # No rule that depends on this can have commands that come from listfiles # because they might be regenerated. cmake_check_build_system:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -S\$(CMA KE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cm ake 0 .PHONY : cmake_check_build_system  ---- END OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/EnvVar/M akefile ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/TimeUt ils/Makefile ---- # CMAKE generated file: DO NOT EDIT! # Generated by "Unix Makefiles" Generator, CMake Version 3.22  # Default target executed when no arguments are given to make. default_target: all .PHONY : default_target  # Allow only one "make -f Makefile2" at a time, but pass parallelism. .NOTPARALLEL:  ##### # Special targets provided by cmake.  # Disable implicit rules so canonical targets will work. .SUFFIXES:  # Disable VCS-based implicit rules. % : %,v  # Disable VCS-based implicit rules. % : RCS/%  # Disable VCS-based implicit rules. % : RCS/%,v  # Disable VCS-based implicit rules. % : SCCS/s.%  # Disable VCS-based implicit rules.</pre>		

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<pre>% : s.%  .SUFFIXES: .hpux_make_needs_suffix_list  # Command-line flag to silence nested \$(MAKE). \$(VERBOSE)MAKESILENT = -s  #Suppress display of executed commands. \$(VERBOSE).SILENT:  # A target that is always out of date. cmake_force: .PHONY : cmake_force  ===== # Set environment variables for the build.  # The shell in which to execute make rules. SHELL = /bin/sh  # The CMake executable. CMAKE_COMMAND = /usr/bin/cmake  # The command to remove a file. RM = /usr/bin/cmake -E rm -f  # Escaping for special characters. EQUALS = =  # The top-level source directory on which CMake was run. CMAKE_SOURCE_DIR = /home/henrik/Projekter/AppFramework  # The top-level build directory on which CMake was run. CMAKE_BINARY_DIR = /home/henrik/Projekter/AppFramework/build  ===== # Targets provided globally by CMake.  # Special rule for the target edit_cache edit_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "No inter active CMake dialog available..."     /usr/bin/cmake -E echo No\ interactive\ CMake\ dialog\ available. .PHONY : edit_cache  # Special rule for the target edit_cache edit_cache/fast: edit_cache .PHONY : edit_cache/fast  # Special rule for the target rebuild_cache rebuild_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "Running CMake to regenerate build system..."     /usr/bin/cmake --regenerate-during-build -S\$(CMAKE_SOURCE_DIR) -B\$(CMAKE _BINARY_DIR) .PHONY : rebuild_cache  # Special rule for the target rebuild_cache rebuild_cache/fast: rebuild_cache .PHONY : rebuild_cache/fast  # The main all target</pre>		

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<pre>all: cmake_check_build_system     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -E cmak e_progress_start /home/henrik/Projekter/AppFramework/build/CMakeFiles /home/henr ik/Projekter/AppFramework/build/subprojects/TimeUtils//CMakeFiles/progress.marks     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/TimeUtils/all     \$(CMAKE_COMMAND) -E cmake_progress_start /home/henrik/Projekter/AppFrame work/build/CMakeFiles 0 .PHONY : all  # The main clean target clean:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/TimeUtils/clean .PHONY : clean  # The main clean target clean/fast: clean .PHONY : clean/fast  # Prepare targets for installation. preinstall: all     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/TimeUtils/preinstall .PHONY : preinstall  # Prepare targets for installation. preinstall/fast:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/TimeUtils/preinstall .PHONY : preinstall/fast  # clear depends depend:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -S\$(CMA KE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cm ake 1 .PHONY : depend  # Convenience name for target. subprojects/TimeUtils/CMakeFiles/TimeUtils.dir/rule:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/TimeUtils/CMakeFiles/TimeUtils.dir/rule .PHONY : subprojects/TimeUtils/CMakeFiles/TimeUtils.dir/rule  # Convenience name for target. TimeUtils: subprojects/TimeUtils/CMakeFiles/TimeUtils.dir/rule .PHONY : TimeUtils  # fast build rule for target. TimeUtils/fast:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/TimeUtils/CMakeFiles/TimeUtils.dir/build.make subprojects/TimeUtils /CMakeFiles/TimeUtils.dir/build .PHONY : TimeUtils/fast  TimeUtils.o: TimeUtils.cpp.o .PHONY : TimeUtils.o  # target to build an object file TimeUtils.cpp.o:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f</pre>		



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subprojects/TimeUtils/CMakeFiles/TimeUtils.dir/build.make subprojects/TimeUtils
/CMakeFiles/TimeUtils.dir/TimeUtils.cpp.o
.PHONY : TimeUtils.cpp.o

TimeUtils.i: TimeUtils.cpp.i
.PHONY : TimeUtils.i

# target to preprocess a source file
TimeUtils.cpp.i:
    cd /home/henrik/Projekter/AppFramework/build && $(MAKE) $(MAKESILENT) -f
subprojects/TimeUtils/CMakeFiles/TimeUtils.dir/build.make subprojects/TimeUtils
/CMakeFiles/TimeUtils.dir/TimeUtils.cpp.i
.PHONY : TimeUtils.cpp.i

TimeUtils.s: TimeUtils.cpp.s
.PHONY : TimeUtils.s

# target to generate assembly for a file
TimeUtils.cpp.s:
    cd /home/henrik/Projekter/AppFramework/build && $(MAKE) $(MAKESILENT) -f
subprojects/TimeUtils/CMakeFiles/TimeUtils.dir/build.make subprojects/TimeUtils
/CMakeFiles/TimeUtils.dir/TimeUtils.cpp.s
.PHONY : TimeUtils.cpp.s

# Help Target
help:
    @echo "The following are some of the valid targets for this Makefile:"
    @echo "... all (the default if no target is provided)"
    @echo "... clean"
    @echo "... depend"
    @echo "... edit_cache"
    @echo "... rebuild_cache"
    @echo "... TimeUtils"
    @echo "... TimeUtils.o"
    @echo "... TimeUtils.i"
    @echo "... TimeUtils.s"
.PHONY : help

#####

# Special targets to cleanup operation of make.

# Special rule to run CMake to check the build system integrity.
# No rule that depends on this can have commands that come from listfiles
# because they might be regenerated.
cmake_check_build_system:
    cd /home/henrik/Projekter/AppFramework/build && $(CMAKE_COMMAND) -S$(CMA
KE_SOURCE_DIR) -B$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cm
ake 0
.PHONY : cmake_check_build_system

---- END OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/TimeUtil
s/Makefile ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/String
Utils/Makefile ----
# CMAKE generated file: DO NOT EDIT!
# Generated by "Unix Makefiles" Generator, CMake Version 3.22

# Default target executed when no arguments are given to make.
default_target: all

```

```

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.PHONY : default_target

# Allow only one "make -f Makefile2" at a time, but pass parallelism.
.NOTPARALLEL:

#####

# Special targets provided by cmake.

# Disable implicit rules so canonical targets will work.
.SUFFIXES:

# Disable VCS-based implicit rules.
% : %,v

# Disable VCS-based implicit rules.
% : RCS/%

# Disable VCS-based implicit rules.
% : RCS/%,v

# Disable VCS-based implicit rules.
% : SCCS/s.%

# Disable VCS-based implicit rules.
% : s.%

.SUFFIXES: .hpux_make_needs_suffix_list

# Command-line flag to silence nested $(MAKE).
$(VERBOSE)MAKESILENT = -s

# Suppress display of executed commands.
$(VERBOSE).SILENT:

# A target that is always out of date.
cmake_force:
.PHONY : cmake_force

#####

# Set environment variables for the build.

# The shell in which to execute make rules.
SHELL = /bin/sh

# The CMake executable.
CMAKE_COMMAND = /usr/bin/cmake

# The command to remove a file.
RM = /usr/bin/cmake -E rm -f

# Escaping for special characters.
EQUALS = =

# The top-level source directory on which CMake was run.
CMAKE_SOURCE_DIR = /home/henrik/Projekter/AppFramework

# The top-level build directory on which CMake was run.
CMAKE_BINARY_DIR = /home/henrik/Projekter/AppFramework/build

#####

# Targets provided globally by CMake.

```

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<pre># Special rule for the target edit_cache edit_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "No inter active CMake dialog available..."     /usr/bin/cmake -E echo No\ interactive\ CMake\ dialog\ available. .PHONY : edit_cache  # Special rule for the target edit_cache edit_cache/fast: edit_cache .PHONY : edit_cache/fast  # Special rule for the target rebuild_cache rebuild_cache:     @\$(CMAKE_COMMAND) -E cmake_echo_color --switch=\$(COLOR) --cyan "Running CMake to regenerate build system..."     /usr/bin/cmake --regenerate-during-build -S\$(CMAKE_SOURCE_DIR) -B\$(CMAKE _BINARY_DIR) .PHONY : rebuild_cache  # Special rule for the target rebuild_cache rebuild_cache/fast: rebuild_cache .PHONY : rebuild_cache/fast  # The main all target all: cmake_check_build_system     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -E cmak e_progress_start /home/henrik/Projekter/AppFramework/build/CMakeFiles /home/henr ik/Projekter/AppFramework/build/subprojects/StringUtils//CMakeFiles/progress.mar ks     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/StringUtils/all     \$(CMAKE_COMMAND) -E cmake_progress_start /home/henrik/Projekter/AppFrame work/build/CMakeFiles 0 .PHONY : all  # The main clean target clean:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/StringUtils/clean .PHONY : clean  # The main clean target clean/fast: clean .PHONY : clean/fast  # Prepare targets for installation. preinstall: all     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/StringUtils/preinstall .PHONY : preinstall  # Prepare targets for installation. preinstall/fast:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/StringUtils/preinstall .PHONY : preinstall/fast  # clear depends depend:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -S\$(CMA KE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cm ake 1</pre>		

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<pre>.PHONY : depend  # Convenience name for target. subprojects/StringUtils/CMakeFiles/StringUtils.dir/rule:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/StringUtils/CMakeFiles/StringUtils.dir/rule .PHONY : subprojects/StringUtils/CMakeFiles/StringUtils.dir/rule  # Convenience name for target. StringUtils: subprojects/StringUtils/CMakeFiles/StringUtils.dir/rule .PHONY : StringUtils  # fast build rule for target. StringUtils/fast:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/StringUtils/CMakeFiles/StringUtils.dir/build.make subprojects/Strin gUtils/CMakeFiles/StringUtils.dir/build .PHONY : StringUtils/fast  StringUtils.o: StringUtils.cpp.o .PHONY : StringUtils.o  # target to build an object file StringUtils.cpp.o:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/StringUtils/CMakeFiles/StringUtils.dir/build.make subprojects/Strin gUtils/CMakeFiles/StringUtils.dir/StringUtils.cpp.o .PHONY : StringUtils.cpp.o  StringUtils.i: StringUtils.cpp.i .PHONY : StringUtils.i  # target to preprocess a source file StringUtils.cpp.i:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/StringUtils/CMakeFiles/StringUtils.dir/build.make subprojects/Strin gUtils/CMakeFiles/StringUtils.dir/StringUtils.cpp.i .PHONY : StringUtils.cpp.i  StringUtils.s: StringUtils.cpp.s .PHONY : StringUtils.s  # target to generate assembly for a file StringUtils.cpp.s:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/StringUtils/CMakeFiles/StringUtils.dir/build.make subprojects/Strin gUtils/CMakeFiles/StringUtils.dir/StringUtils.cpp.s .PHONY : StringUtils.cpp.s  # Help Target help:     @echo "The following are some of the valid targets for this Makefile:"     @echo "... all (the default if no target is provided)"     @echo "... clean"     @echo "... depend"     @echo "... edit_cache"     @echo "... rebuild_cache"     @echo "... StringUtils"     @echo "... StringUtils.o"     @echo "... StringUtils.i"     @echo "... StringUtils.s" .PHONY : help</pre>		

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#=====
# Special targets to cleanup operation of make.

# Special rule to run CMake to check the build system integrity.
# No rule that depends on this can have commands that come from listfiles
# because they might be regenerated.
cmake_check_build_system:
    cd /home/henrik/Projekter/AppFramework/build && $(CMAKE_COMMAND) -S$(CMAKE_SOURCE_DIR) -B$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cmake 0
.PHONY : cmake_check_build_system

---- END OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/StringUtils/Makefile ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/CommandLineProcessor/Makefile ----
# CMAKE generated file: DO NOT EDIT!
# Generated by "Unix Makefiles" Generator, CMake Version 3.22

# Default target executed when no arguments are given to make.
default_target: all
.PHONY : default_target

# Allow only one "make -f Makefile2" at a time, but pass parallelism.
.NOTPARALLEL:

#=====
# Special targets provided by cmake.

# Disable implicit rules so canonical targets will work.
.SUFFIXES:

# Disable VCS-based implicit rules.
% : %,v

# Disable VCS-based implicit rules.
% : RCS/%

# Disable VCS-based implicit rules.
% : RCS/%,v

# Disable VCS-based implicit rules.
% : SCCS/s.%

# Disable VCS-based implicit rules.
% : s.%

.SUFFIXES: .hpux_make_needs_suffix_list

# Command-line flag to silence nested $(MAKE).
$(VERBOSE)MAKESILENT = -s

# Suppress display of executed commands.
$(VERBOSE).SILENT:

# A target that is always out of date.
cmake_force:
.PHONY : cmake_force

```

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#=====
# Set environment variables for the build.

# The shell in which to execute make rules.
SHELL = /bin/sh

# The CMake executable.
CMAKE_COMMAND = /usr/bin/cmake

# The command to remove a file.
RM = /usr/bin/cmake -E rm -f

# Escaping for special characters.
EQUALS = =

# The top-level source directory on which CMake was run.
CMAKE_SOURCE_DIR = /home/henrik/Projekter/AppFramework

# The top-level build directory on which CMake was run.
CMAKE_BINARY_DIR = /home/henrik/Projekter/AppFramework/build

#=====
# Targets provided globally by CMake.

# Special rule for the target edit_cache
edit_cache:
    @$(CMAKE_COMMAND) -E cmake_echo_color --switch=$(COLOR) --cyan "No interactive CMake dialog available..."
    /usr/bin/cmake -E echo No\ interactive\ CMake\ dialog\ available.
.PHONY : edit_cache

# Special rule for the target edit_cache
edit_cache/fast: edit_cache
.PHONY : edit_cache/fast

# Special rule for the target rebuild_cache
rebuild_cache:
    @$(CMAKE_COMMAND) -E cmake_echo_color --switch=$(COLOR) --cyan "Running CMake to regenerate build system..."
    /usr/bin/cmake --regenerate-during-build -S$(CMAKE_SOURCE_DIR) -B$(CMAKE_BINARY_DIR)
.PHONY : rebuild_cache

# Special rule for the target rebuild_cache
rebuild_cache/fast: rebuild_cache
.PHONY : rebuild_cache/fast

# The main all target
all: cmake_check_build_system
    cd /home/henrik/Projekter/AppFramework/build && $(CMAKE_COMMAND) -E cmake_progress_start /home/henrik/Projekter/AppFramework/build/CMakeFiles /home/henrik/Projekter/AppFramework/build/subprojects/CommandLineProcessor/CMakeFiles/progress.marks
    cd /home/henrik/Projekter/AppFramework/build && $(MAKE) $(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/CommandLineProcessor/all
    $(CMAKE_COMMAND) -E cmake_progress_start /home/henrik/Projekter/AppFramework/build/CMakeFiles 0
.PHONY : all

# The main clean target
clean:

```

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<pre>cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/CommandLineProcessor/clean .PHONY : clean  # The main clean target clean/fast: clean .PHONY : clean/fast  # Prepare targets for installation. preinstall: all cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/CommandLineProcessor/preinstall .PHONY : preinstall  # Prepare targets for installation. preinstall/fast: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/CommandLineProcessor/preinstall .PHONY : preinstall/fast  # clear depends depend: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -S\$(CMA KE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cm ake 1 .PHONY : depend  # Convenience name for target. subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/rule: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f CMakeFiles/Makefile2 subprojects/CommandLineProcessor/CMakeFiles/CommandLinePro cessor.dir/rule .PHONY : subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/ru le  # Convenience name for target. CommandLineProcessor: subprojects/CommandLineProcessor/CMakeFiles/CommandLinePro cessor.dir/rule .PHONY : CommandLineProcessor  # fast build rule for target. CommandLineProcessor/fast: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build .PHONY : CommandLineProcessor/fast  Argument.o: Argument.cpp.o .PHONY : Argument.o  # target to build an object file Argument.cpp.o: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/Argument.c pp.o .PHONY : Argument.cpp.o  Argument.i: Argument.cpp.i .PHONY : Argument.i  # target to preprocess a source file</pre>		

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<pre>Argument.cpp.i: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/Argument.c pp.i .PHONY : Argument.cpp.i  Argument.s: Argument.cpp.s .PHONY : Argument.s  # target to generate assembly for a file Argument.cpp.s: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/Argument.c pp.s .PHONY : Argument.cpp.s  ArgumentConfig.o: ArgumentConfig.cpp.o .PHONY : ArgumentConfig.o  # target to build an object file ArgumentConfig.cpp.o: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/ArgumentCo nfig.cpp.o .PHONY : ArgumentConfig.cpp.o  ArgumentConfig.i: ArgumentConfig.cpp.i .PHONY : ArgumentConfig.i  # target to preprocess a source file ArgumentConfig.cpp.i: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/ArgumentCo nfig.cpp.i .PHONY : ArgumentConfig.cpp.i  ArgumentConfig.s: ArgumentConfig.cpp.s .PHONY : ArgumentConfig.s  # target to generate assembly for a file ArgumentConfig.cpp.s: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/ArgumentCo nfig.cpp.s .PHONY : ArgumentConfig.cpp.s  Arguments.o: Arguments.cpp.o .PHONY : Arguments.o  # target to build an object file Arguments.cpp.o: cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/Arguments. cpp.o .PHONY : Arguments.cpp.o</pre>		

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<pre>Arguments.i: Arguments.cpp.i .PHONY : Arguments.i  # target to preprocess a source file Arguments.cpp.i:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/Arguments.     cpp.i .PHONY : Arguments.cpp.i  Arguments.s: Arguments.cpp.s .PHONY : Arguments.s  # target to generate assembly for a file Arguments.cpp.s:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/Arguments.     cpp.s .PHONY : Arguments.cpp.s  CommandLineProcessor.o: CommandLineProcessor.cpp.o .PHONY : CommandLineProcessor.o  # target to build an object file CommandLineProcessor.cpp.o:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/CommandLin     eProcessor.cpp.o .PHONY : CommandLineProcessor.cpp.o  CommandLineProcessor.i: CommandLineProcessor.cpp.i .PHONY : CommandLineProcessor.i  # target to preprocess a source file CommandLineProcessor.cpp.i:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/CommandLin     eProcessor.cpp.i .PHONY : CommandLineProcessor.cpp.i  CommandLineProcessor.s: CommandLineProcessor.cpp.s .PHONY : CommandLineProcessor.s  # target to generate assembly for a file CommandLineProcessor.cpp.s:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/CommandLin     eProcessor.cpp.s .PHONY : CommandLineProcessor.cpp.s  ConfigManager.o: ConfigManager.cpp.o .PHONY : ConfigManager.o  # target to build an object file ConfigManager.cpp.o:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make</pre>		

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<pre>subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/ConfigMana ger.cpp.o .PHONY : ConfigManager.cpp.o  ConfigManager.i: ConfigManager.cpp.i .PHONY : ConfigManager.i  # target to preprocess a source file ConfigManager.cpp.i:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/ConfigMana     ger.cpp.i .PHONY : ConfigManager.cpp.i  ConfigManager.s: ConfigManager.cpp.s .PHONY : ConfigManager.s  # target to generate assembly for a file ConfigManager.cpp.s:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/ConfigMana     ger.cpp.s .PHONY : ConfigManager.cpp.s  DefaultSettings.o: DefaultSettings.cpp.o .PHONY : DefaultSettings.o  # target to build an object file DefaultSettings.cpp.o:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/DefaultSet     tings.cpp.o .PHONY : DefaultSettings.cpp.o  DefaultSettings.i: DefaultSettings.cpp.i .PHONY : DefaultSettings.i  # target to preprocess a source file DefaultSettings.cpp.i:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/DefaultSet     tings.cpp.i .PHONY : DefaultSettings.cpp.i  DefaultSettings.s: DefaultSettings.cpp.s .PHONY : DefaultSettings.s  # target to generate assembly for a file DefaultSettings.cpp.s:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(MAKE) \$(MAKESILENT) -f     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/build.make     subprojects/CommandLineProcessor/CMakeFiles/CommandLineProcessor.dir/DefaultSet     tings.cpp.s .PHONY : DefaultSettings.cpp.s  # Help Target help:     @echo "The following are some of the valid targets for this Makefile:"</pre>		

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	<pre> @echo "... all (the default if no target is provided)" @echo "... clean" @echo "... depend" @echo "... edit_cache" @echo "... rebuild_cache" @echo "... CommandLineProcessor" @echo "... Argument.o" @echo "... Argument.i" @echo "... Argument.s" @echo "... ArgumentConfig.o" @echo "... ArgumentConfig.i" @echo "... ArgumentConfig.s" @echo "... Arguments.o" @echo "... Arguments.i" @echo "... Arguments.s" @echo "... CommandLineProcessor.o" @echo "... CommandLineProcessor.i" @echo "... CommandLineProcessor.s" @echo "... ConfigManager.o" @echo "... ConfigManager.i" @echo "... ConfigManager.s" @echo "... DefaultSettings.o" @echo "... DefaultSettings.i" @echo "... DefaultSettings.s" .PHONY : help  ##### # Special targets to cleanup operation of make.  # Special rule to run CMake to check the build system integrity. # No rule that depends on this can have commands that come from listfiles # because they might be regenerated. cmake_check_build_system:     cd /home/henrik/Projekter/AppFramework/build &amp;&amp; \$(CMAKE_COMMAND) -S\$(CMAKE_SOURCE_DIR) -B\$(CMAKE_BINARY_DIR) --check-build-system CMakeFiles/Makefile.cmake 0 .PHONY : cmake_check_build_system  ---- END OF FILE: /home/henrik/Projekter/AppFramework/build/subprojects/CommandLineProcessor/Makefile ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/CMakeLists.txt ---- # # This file is part of the AppFramework project. # # AppFramework is free software: you can redistribute it and/or modify # it under the terms of the GNU General Public License as published by # the Free Software Foundation, GPL version 4. # # AppFramework is distributed in the hope that it will be useful, # but WITHOUT ANY WARRANTY; without even the implied warranty of # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the # GNU General Public License version 4 for more details. # # You should have received a copy of the GNU General Public License # along with AppFramework. If not, see &lt;https://www.gnu.org/licenses/&gt;.  cmake_minimum_required(VERSION 3.10) project(testing VERSION 1.0) set(CMAKE_BUILD_TYPE Debug) </pre>	

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	<pre> set(CMAKE_CXX_STANDARD 17) set(CMAKE_CXX_STANDARD_REQUIRED True) set(CMAKE_BUILD_PARALLEL_LEVEL 5)  include_directories(include)  # Include subprojects add_subdirectory(subprojects/TimeUtils) add_subdirectory(subprojects/StringUtils) add_subdirectory(subprojects/Logger) add_subdirectory(subprojects/EnvVar) add_subdirectory(subprojects/UiManager) add_subdirectory(subprojects/CommandLineProcessor)  option(THREAD_SAFE "Enable thread safety" OFF) if(THREAD_SAFE)     add_compile_definitions(THREAD_SAFE) endif()  option(ENABLE_DEBUG "Enable debugging messages in output" ON) if(ENABLE_DEBUG)     add_compile_definitions(ENABLE_DEBUG) endif()  # Find the nlohmann/json package find_package(nlohmann_json REQUIRED)  # List of source files set(SOURCES     src/main.cpp  #INSERTCLASSPOINT )  add_executable(main \${SOURCES}) # Set include directories for the main target target_include_directories(main     PRIVATE         \${CMAKE_CURRENT_SOURCE_DIR}/subprojects/UiManager         # ... other include directories ... ) # Link the executable with TimeUtils and StringUtils target_link_libraries(main PRIVATE TimeUtils) target_link_libraries(main PRIVATE StringUtils) target_link_libraries(main PRIVATE Logger) target_link_libraries(main PRIVATE EnvVar) target_link_libraries(main PRIVATE UiManager) target_link_libraries(main PRIVATE CommandLineProcessor)  # Link the JSON library target_link_libraries(main PRIVATE nlohmann_json::nlohmann_json) ---- END OF FILE: /home/henrik/Projekter/AppFramework/CMakeLists.txt ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/src/main.cpp ---- /*     This file is part of the AppFramework project. </pre>	

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<p>AppFramework is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, GPL version 4.</p> <p>AppFramework is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License version 4 for more details.</p> <p>You should have received a copy of the GNU General Public License along with AppFramework. If not, see &lt;<a href="https://www.gnu.org/licenses/">https://www.gnu.org/licenses/</a>&gt;.</p> <p>*****</p> <p>/</p> <p>//main.cpp</p> <pre>#include &lt;iostream&gt; #include "EnvVar.hpp" #include "ConfigManager.hpp" #include "Logger.hpp" #include "ArgumentConfig.hpp" #include "Arguments.hpp" #include "CommandLineProcessor.hpp" #include "UiManager.hpp"  //===== /* @brief Main entrance point of the program.  * @param[in] argc The count of arguments provided  * @param[in] argv A list of char* of arguments  * @return An integer that denotes the endstate of the program to the OS  * @since 1.0.0  * @version 1.1  * @author Henrik SÃ,rensen  * @date 2023-01-01  * @todo Further Development  */ //===== int main(int argc, char* argv[]) {     //=====     // Initialization     //=====     try {         // Define and process command-line arguments         auto definedArgs = ArgumentConfig::getDefinedArguments();         Arguments cmdArgs(argc, argv, definedArgs);         CommandLineProcessor cmdProcessor(cmdArgs);         ArgumentConfig::setupArguments(cmdProcessor);         cmdProcessor.Process();          // Initialize configuration manager         ConfigManager configManager("config.json", cmdArgs);          // Initialize environment variables         EnvVarUtils myVar("LOGPATH");         std::string logPathValue = myVar.get();         Logger::getInstance().log("LOGPATH value: " + logPathValue, "main", Logger::Severity::Info);          // Create and run the UI         UiManager uiManager(configManager, cmdArgs);         uiManager.run();     } }</pre>		

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<pre>    } catch (const std::exception&amp; e) {         std::cerr &lt;&lt; "Error During Initialization: " &lt;&lt; e.what() &lt;&lt; std::endl;         exit(1);     }      //=====     // Cleanup code     //=====     // Any necessary cleanup before exiting      return 0; }---- END OF FILE: /home/henrik/Projekter/AppFramework/src/main.cpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/include/Version.hpp ---- /* This file is part of the AppEssential project.  AppEssential is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, GPL version 4.  AppEssential is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License version 4 for more details.  You should have received a copy of the GNU General Public License along with AppEssential. If not, see &lt;<a href="https://www.gnu.org/licenses/">https://www.gnu.org/licenses/</a>&gt;. */  // Version.hpp  #ifndef VERSION_HPP #define VERSION_HPP  #include &lt;string&gt;  const std::string VERSION = "1.0.2";  #endif // VERSION_HPP ---- END OF FILE: /home/henrik/Projekter/AppFramework/include/Version.hpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/config/skel.cpp ---- /* This file is part of the AppFramework project.  AppFramework is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, GPL version 4.  AppFramework is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License version 4 for more details.  You should have received a copy of the GNU General Public License along with AppFramework. If not, see &lt;<a href="https://www.gnu.org/licenses/">https://www.gnu.org/licenses/</a>&gt;. */  // &lt;classname&gt;.cpp</pre>		

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<pre>#include "&lt;classname&gt;.hpp"  #ifdef THREAD_SAFE #include &lt;mutex&gt; std::mutex EnvVar::mtx; // Define the static mutex #endif---- END OF FILE: /home/henrik/Projekter/AppFramework/config/skel.cpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/config/skel.hpp ---- /*     This file is part of the AppFramework project.      AppFramework is free software: you can redistribute it and/or modify     it under the terms of the GNU General Public License as published by     the Free Software Foundation, GPL version 4.      AppFramework is distributed in the hope that it will be useful,     but WITHOUT ANY WARRANTY; without even the implied warranty of     MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the     GNU General Public License version 4 for more details.      You should have received a copy of the GNU General Public License     along with AppFramework. If not, see &lt;https://www.gnu.org/licenses/&gt;. */  // &lt;classname&gt;.hpp  #ifndef &lt;CAPITALIZED CLASSNAME&gt;_HPP #define &lt;CAPITALIZED CLASSNAME&gt;_HPP  #ifdef THREAD_SAFE #include &lt;mutex&gt; #endif  class &lt;classname&gt; {  }; #endif // &lt;CAPITALIZED CLASSNAME&gt;_HPP---- END OF FILE: /home/henrik/Projekter/AppFramework/config/skel.hpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/Logger/Logger.cpp ---- /*     This file is part of the AppFramework project.      AppFramework is free software: you can redistribute it and/or modify     it under the terms of the GNU General Public License as published by     the Free Software Foundation, GPL version 4.      AppFramework is distributed in the hope that it will be useful,     but WITHOUT ANY WARRANTY; without even the implied warranty of     MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the     GNU General Public License version 4 for more details.      You should have received a copy of the GNU General Public License     along with AppFramework. If not, see &lt;https://www.gnu.org/licenses/&gt;. */  // Logger.cpp  #include &lt;iostream&gt; #include &lt;fstream&gt; #include &lt;sstream&gt;</pre>		

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<pre>#include &lt;chrono&gt; #include &lt;iomanip&gt; #include "Logger.hpp" #include "DefaultSettings.hpp" #include "EnvVar.hpp" #include "StringUtils.hpp" #include "TimeUtils.hpp"  Logger::Logger() {     // Fetch default log path from DefaultSettings     std::string defaultLogPath = DefaultSettings::getDefaultConfig()["AppFramework"]["Config"]["Defaults"]["Logger"]["defaultLogPath"];      std::string logPath = defaultLogPath; // Use default log path      // Use std::getenv directly to avoid dependency on EnvVar     const char* configPath = std::getenv("LOGPATH");     if (configPath != nullptr) {         logPath = std::string(configPath) + "/" + defaultLogPath;     }      logFile.open(logPath, std::ios::out   std::ios::app); }  Logger::~Logger() {     if (logFile.is_open()) {         logFile.close();     } }  Logger&amp; Logger::getInstance() {     static Logger instance;     return instance; }  void Logger::log(const std::string&amp; message, const std::string&amp; location, Logger::Severity severity) {     if (logFile.is_open()) {         // Fetch the time format and log entry format from DefaultSettings         std::string timeFormat = DefaultSettings::getDefaultConfig()["AppFramework"]["Config"]["Defaults"]["Logger"]["timeFormat"];         std::string logEntryFormat = DefaultSettings::getDefaultConfig()["AppFramework"]["Config"]["Defaults"]["Logger"]["logEntryFormat"];          // Get the current timestamp in the specified format         auto now = std::chrono::system_clock::now();         auto now_time_t = std::chrono::system_clock::to_time_t(now);         std::tm now_localtime = *std::localtime(&amp;now_time_t);         std::stringstream timestamp;         timestamp &lt;&lt; std::put_time(&amp;now_localtime, timeFormat.c_str());          // Replace placeholders in the log entry format         StringUtils::replaceAll(logEntryFormat, "%timestamp%", timestamp.str());         StringUtils::replaceAll(logEntryFormat, "%level%", severityToString(severity));         StringUtils::replaceAll(logEntryFormat, "%location%", location);         StringUtils::replaceAll(logEntryFormat, "%message%", message);          // Write the formatted log entry         logFile &lt;&lt; logEntryFormat &lt;&lt; std::endl;     } }</pre>		



```

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std::string Logger::severityToString(Severity severity) {
    switch (severity) {
        case Severity::Trace:    return "TRACE";
        case Severity::Debug:    return "DEBUG";
        case Severity::Info:     return "INFO";
        case Severity::Warning:  return "WARNING";
        case Severity::Error:    return "ERROR";
        case Severity::Fatal:    return "FATAL";
        default:
            return "UNKNOWN";
    }
}

std::string Logger::formatMessage(const std::string& message, Severity severity,
const std::string& location) {
    // Fetch default log entry format and time format
    std::string defaultLogEntryFormat = DefaultSettings::getDefaultConfig()["App
Framework"]["Config"]["Defaults"]["Logger"]["logEntryFormat"];
    std::string timeFormat = DefaultSettings::getDefaultConfig()["AppFramework"]
["Config"]["Defaults"]["Logger"]["timeFormat"];

    // Format the message using the default format
    std::string formattedMessage = defaultLogEntryFormat;
    StringUtils::replaceAll(formattedMessage, "%timestamp%", TimeUtils::getCurre
ntTimestamp(timeFormat));
    StringUtils::replaceAll(formattedMessage, "%level%", severityToString(severi
ty));
    StringUtils::replaceAll(formattedMessage, "%message%", message);
    StringUtils::replaceAll(formattedMessage, "%location%", location);

    return formattedMessage;
}---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/Logger/Logger
.cpp ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/Logger/CMake
Lists.txt ----
# CMakeLists.txt for Logger subproject

# Define the Logger library
add_library(Logger
    Logger.cpp
    # ... other source files ...
)

# Link Logger with TimeUtils, StringUtils, and EnvVar
target_link_libraries(Logger
    PRIVATE
        StringUtils
        TimeUtils
        EnvVar
)

# Set include directories for Logger library
target_include_directories(Logger
    PUBLIC
        ${CMAKE_CURRENT_SOURCE_DIR}
        ${CMAKE_CURRENT_SOURCE_DIR}/../CommandLineProcessor # Include CommandLi
neProcessor subdirectory
)---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/Logger/CMakeL
ists.txt ----

```

```

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---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/Logger/Logge
r.hpp ----
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*/

// Logger.hpp

#ifndef LOGGER_HPP
#define LOGGER_HPP

#include <string>
#include <fstream>
#include <mutex>

class Logger {
public:
    enum class Severity {
        Trace,
        Debug,
        Info,
        Warning,
        Error,
        Fatal
    };

    static Logger& getInstance();
    void log(const std::string& message, const std::string& location, Severity s
everity);
    void setFormat(const std::string& format) {
        this->logFormat = format;
    }

    std::string formatMessage(const std::string& message, Severity severity, con
st std::string& location);
private:
    std::ofstream logFile;
    std::mutex mtx;

    Logger(); // Private constructor for Singleton pattern
    ~Logger();
    Logger(const Logger&) = delete;
    Logger& operator=(const Logger&) = delete;
    std::string logFormat;
    std::string severityToString(Severity severity);
};

#endif // LOGGER_HPP
---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/Logger/Logger.
hpp ----

```

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<pre>---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/UiManager/UiManager.hpp ---- /*   This file is part of the AppEssential project.    AppEssential is free software: you can redistribute it and/or modify   it under the terms of the GNU General Public License as published by   the Free Software Foundation, GPL version 4.    AppEssential is distributed in the hope that it will be useful,   but WITHOUT ANY WARRANTY; without even the implied warranty of   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the   GNU General Public License version 4 for more details.    You should have received a copy of the GNU General Public License   along with AppEssential. If not, see &lt;https://www.gnu.org/licenses/&gt;. */  // UiManager.hpp  #ifdef UIMANAGER_HPP #define UIMANAGER_HPP  #include &lt;gtk/gtk.h&gt; #include "ConfigManager.hpp" #include "Arguments.hpp"  class UiManager { private:     GtkWidget *window;     ConfigManager&amp; configManager;     Arguments&amp; cmdArgs;      void initializeGtk();     void createMainWindow();  public:     UiManager(ConfigManager&amp; configManager, Arguments&amp; cmdArgs);     ~UiManager();      void run(); };  #endif // UIMANAGER_HPP ---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/UiManager/UiManager.hpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/UiManager/CMakeLists.txt ---- cmake_minimum_required(VERSION 3.0) project(UiManager)  # Find the GTK package find_package(PkgConfig REQUIRED) pkg_check_modules(GTK3 REQUIRED gtk+-3.0)  # Define the UiManager library add_library(UiManager     UiManager.cpp )</pre>		

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<pre># Include GTK headers target_include_directories(UiManager     PUBLIC \${CMAKE_CURRENT_SOURCE_DIR}            \${GTK3_INCLUDE_DIRS}            \${CMAKE_CURRENT_SOURCE_DIR}/../CommandLineProcessor )  # Link GTK libraries target_link_libraries(UiManager     \${GTK3_LIBRARIES} )  # Additional GTK flags target_compile_options(UiManager     PUBLIC \${GTK3_CFLAGS_OTHER} )  ---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/UiManager/CMakeLists.txt ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/UiManager/UiManager.cpp ---- /*   This file is part of the AppEssential project.    AppEssential is free software: you can redistribute it and/or modify   it under the terms of the GNU General Public License as published by   the Free Software Foundation, GPL version 4.    AppEssential is distributed in the hope that it will be useful,   but WITHOUT ANY WARRANTY; without even the implied warranty of   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the   GNU General Public License version 4 for more details.    You should have received a copy of the GNU General Public License   along with AppEssential. If not, see &lt;https://www.gnu.org/licenses/&gt;. */  // UiManager.cpp  #include "UiManager.hpp" #include &lt;locale&gt; #include &lt;libintl.h&gt; #include &lt;string&gt;  #define _(String) gettext(String)  // Constructor  UiManager::UiManager(ConfigManager&amp; configManager, Arguments&amp; cmdArgs)     : configManager(configManager), cmdArgs(cmdArgs) {     initializeGtk();     createMainWindow(); }  UiManager::~UiManager() {     // Assuming window will be automatically destroyed when the main loop quits     // If any additional cleanup is needed, do it here }  void UiManager::initializeGtk() {     // Extract the GTK-specific arguments from the command line arguments</pre>		

```

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    std::vector<char*> gtkArgs;
    auto gtkArgList = cmdArgs.getGtkArguments(); // You need to implement this method
    for (auto& arg : gtkArgList) {
        gtkArgs.push_back(const_cast<char*>(arg.c_str()));
    }
    int gtkArgc = gtkArgs.size();
    char** gtkArgv = gtkArgs.data();

    // Initialize GTK
    gtk_init(&gtkArgc, &gtkArgv);
}

void UIManager::createMainWindow() {
    // Use settings from ConfigManager to set up the main window
    int width = configManager.get<int>("AppFramework.Config.Defaults.gtk.window.width");
    int height = configManager.get<int>("AppFramework.Config.Defaults.gtk.window.height");
    int xpos = configManager.get<int>("AppFramework.Config.Defaults.gtk.window.pos_x");
    int ypos = configManager.get<int>("AppFramework.Config.Defaults.gtk.window.pos_y");
    std::string title = configManager.get<std::string>("AppFramework.Config.Defaults.gtk.window.title");

    window = gtk_window_new(GTK_WINDOW_TOPLEVEL);

    gtk_window_set_default_size(GTK_WINDOW(window), width, height);
    gtk_window_move(GTK_WINDOW(window), xpos, ypos);
    gtk_window_set_title(GTK_WINDOW(window), title.c_str());

    // Connect the window's destroy signal to gtk_main_quit to exit the application
    g_signal_connect(window, "destroy", G_CALLBACK(gtk_main_quit), NULL);

    // Additional setup for widgets inside the window
    // ...
}

void UIManager::run() {
    // Show the window and all its contents
    gtk_widget_show_all(window);

    // Enter the GTK main event loop
    gtk_main();
}
---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/UiManager/UiManager.cpp ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/EnvVar/CMakeLists.txt ----
# Define the EnvVar library

add_library(EnvVar
    EnvVar.cpp
)

# Set include directories for EnvVar library
target_include_directories(EnvVar
    PUBLIC ${CMAKE_CURRENT_SOURCE_DIR}
)
---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/EnvVar/CMakeLists.txt ----

```

```

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ists.txt ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/EnvVar/EnvVar.hpp ----
/*
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*/

// EnvVar.hpp

#ifndef ENVVAR_HPP
#define ENVVAR_HPP

#include <string>
#include <optional>
#ifdef THREAD_SAFE
#include <mutex>
#endif

class EnvVarUtils {
public:
    explicit EnvVarUtils(const std::string& name);

    std::string get() const;
    bool set(const std::string& value) const;
    void store();
    bool restore() const;
//Todo: Expand the functionality and add more EnvVar methods
private:
    std::string varName;
    std::optional<std::string> storedValue;

#ifdef THREAD_SAFE
    static std::mutex mtx; // Mutex for thread safety
#endif
};

#endif // ENVVAR_HPP

---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/EnvVar/EnvVar.hpp ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/EnvVar/EnvVar.cpp ----
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```

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```

```
*/
// EnvVarUtils.cpp
```

```
#include "EnvVar.hpp"
// #include "Logger.hpp"
#include <cstdlib>
#ifdef THREAD_SAFE
#include <mutex>
std::mutex EnvVarUtils::mtx; // Define the static mutex
#endif
```

```
EnvVarUtils::EnvVarUtils(const std::string& name) : varName(name) {}
```

```
std::string EnvVarUtils::get() const {
#ifdef THREAD_SAFE
    std::lock_guard<std::mutex> lock(mtx); // Lock the mutex
#endif
    const char* value = std::getenv(varName.c_str());
    return (value != nullptr) ? std::string(value) : std::string();
}
```

```
bool EnvVarUtils::set(const std::string& value) const {
#ifdef THREAD_SAFE
    std::lock_guard<std::mutex> lock(mtx); // Lock the mutex
#endif
    return setenv(varName.c_str(), value.c_str(), 1) == 0;
}
```

```
void EnvVarUtils::store() {
#ifdef THREAD_SAFE
    std::lock_guard<std::mutex> lock(mtx); // Lock the mutex
#endif
    storedValue = get();
}
```

```
bool EnvVarUtils::restore() const {
#ifdef THREAD_SAFE
    std::lock_guard<std::mutex> lock(mtx); // Lock the mutex
#endif
    if (storedValue.has_value()) {
        return set(storedValue.value());
    }
    return false;
}----
```

```
END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/EnvVar/EnvVar
.cpp ----
```

```
---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/TimeUtils/TimeUtils.cpp ----
/*
```

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```

```
*/
// TimeUtils.cpp
```

```
#include "TimeUtils.hpp"
#include <chrono>
#include <iomanip>
#include <sstream>
```

```
namespace TimeUtils {
    std::string getCurrentTimestamp() {
        return getCurrentTimestamp("%Y-%m-%d %H:%M:%S");
    }

    std::string getCurrentTimestamp(const std::string& timeFormat) {
        auto now = std::chrono::system_clock::now();
        auto now_time_t = std::chrono::system_clock::to_time_t(now);
        auto now_localtime = *std::localtime(&now_time_t);

        std::ostringstream timestampStream;
        timestampStream << std::put_time(&now_localtime, timeFormat.c_str());
        return timestampStream.str();
    }
}
```

```
std::chrono::system_clock::time_point parseTimestamp(const std::string& time
stamp, const std::string& timeFormat) {
    std::tm tm = {};
    std::istringstream timestampStream(timestamp);
    timestampStream >> std::get_time(&tm, timeFormat.c_str());

    if (timestampStream.fail()) {
        throw std::invalid_argument("Invalid timestamp or format.");
    }
}
```

```
std::time_t time = std::mktime(&tm);
return std::chrono::system_clock::from_time_t(time);
}
```

```
std::chrono::seconds calculateTimeDifference(const std::string& timestamp1,
const std::string& timestamp2, const std::string& timeFormat) {
    std::chrono::system_clock::time_point time1 = parseTimestamp(timestamp1,
timeFormat);
    std::chrono::system_clock::time_point time2 = parseTimestamp(timestamp2,
timeFormat);
}
```

```
std::chrono::seconds difference = std::chrono::duration_cast<std::chrono
::seconds>(time2 - time1);
return difference;
}
```

```
} // namespace TimeUtils
```

```
---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/TimeUtils/Time
Utils.cpp ----
```

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<pre> ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/TimeUtils/CM akeLists.txt ---- # Define the TimeUtils library  add_library(TimeUtils     TimeUtils.cpp )  # Set include directories for TimeUtils library target_include_directories(TimeUtils     PUBLIC \${CMAKE_CURRENT_SOURCE_DIR} ) ---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/TimeUtils/CMak eLists.txt ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/TimeUtils/Ti meUtils.hpp ---- /*     This file is part of the AppEssential project.      AppEssential is free software: you can redistribute it and/or modify     it under the terms of the GNU General Public License as published by     the Free Software Foundation, GPL version 4.      AppEssential is distributed in the hope that it will be useful,     but WITHOUT ANY WARRANTY; without even the implied warranty of     MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the     GNU General Public License version 4 for more details.      You should have received a copy of the GNU General Public License     along with AppEssential. If not, see &lt;https://www.gnu.org/licenses/&gt;. */  // TimeUtils.hpp  #ifdef TIMEUTILS_HPP #define TIMEUTILS_HPP  #include &lt;string&gt; #include &lt;chrono&gt;  namespace TimeUtils {     std::string getCurrentTimestamp();     std::string getCurrentTimestamp(const std::string&amp; timeFormat);     std::chrono::system_clock::time_point parseTimestamp(const std::string&amp; time stamp, const std::string&amp; timeFormat);     std::chrono::seconds calculateTimeDifference(const std::string&amp; timestamp1, const std::string&amp; timestamp2, const std::string&amp; timeFormat); } // namespace TimeUtils  #endif // TIMEUTILS_HPP ---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/TimeUtils/Time Utils.hpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/StringUtils/ StringUtils.cpp ---- /*     This file is part of the AppEssential project.      AppEssential is free software: you can redistribute it and/or modify     it under the terms of the GNU General Public License as published by     the Free Software Foundation, GPL version 4. </pre>		

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```

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*/

//StringUtils.cpp

#ifdef STRINGUTILS_HPP
#define STRINGUTILS_HPP

#include <string>

namespace StringUtils {

    void replaceAll(std::string& str, const std::string& from, const std::string
& to);

    // Add more string utility functions here as needed

} // namespace StringUtils

#endif // STRINGUTILS_HPP
---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/StringUtils/St
ringUtils.hpp ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineP
rocessor/ArgumentConfig.hpp ----
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*/

// ArgumentConfig.hpp

#ifdef ARGUMENTCONFIG_HPP
#define ARGUMENTCONFIG_HPP

#include "Argument.hpp"
#include "CommandLineProcessor.hpp"
#include <iostream> // Include for std::cout
#include <memory>
#include <map>

void handleHelp(const std::shared_ptr<Argument>& arg);
void handleVersion(const std::shared_ptr<Argument>& arg);
void handleDumpConfig(const std::shared_ptr<Argument>& arg);
void dumpDefaultConfig();

class ArgumentConfig {
public:
    static std::map<std::string, Argument> getDefinedArguments();

```

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```

    static void setupArguments(CommandLineProcessor& cmdProcessor);
};

#endif // ARGUMENTCONFIG_HPP---- END OF FILE: /home/henrik/Projekter/AppFramework
/subprojects/CommandLineProcessor/ArgumentConfig.hpp ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineP
rocessor/DefaultSettings.cpp ----
/*
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*/

//DefaultSettings.cpp

#include "DefaultSettings.hpp"

//=====
// Write your default hardcoded configs here in json format
//=====
const nlohmann::json DefaultSettings::defaultConfig = {
    {"AppFramework", {
        {"Config", {
            {"Defaults", {
                {"gtk", {
                    {"module", "default_module"},
                    {"window", {
                        {"height", 600},
                        {"pos_x", 500},
                        {"pos_y", 500},
                        {"width", 800},
                        {"title", "AppFramework test"}
                    }}
                }
            }},
            {"Logger", {
                {"defaultLogPath", "testing.log"},
                {"logEntryFormat", "[%timestamp%] [%level%] %location%: %mes
sage%"},
                {"timeFormat", "%Y-%m-%d %H:%M:%S"}
            }
        }
    }
    }
    }
};
//=====
//
//=====

const nlohmann::json DefaultSettings::getDefaultConfig() {
    return defaultConfig;

```

```

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}---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLinePr
ocessor/DefaultSettings.cpp ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineP
rocessor/ArgumentConfig.cpp ----
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*/
// ArgumentConfig.cpp

#include <iostream>
#include <fstream> // Include for std::ofstream
#include <nlohmann/json.hpp> // Include for JSON handling
#include "Argument.hpp"
#include "ArgumentConfig.hpp"
#include "DefaultSettings.hpp"
#include "Version.hpp"
#include "ConfigManager.hpp"

std::vector<ArgumentData> argumentDefinitions = {
    {"--help", "-h", "Display help information", true, false, E_Argument_ValueTy
pe::None},
    {"--version", "-v", "Display version information", true, false, E_Argument_V
alueType::None},
    {"--dumpconfig", "-D", "Dumps the default settings to config.json", true, fa
lse, E_Argument_ValueType::None}
    // Add other arguments here
};

void handleHelp(const std::shared_ptr<Argument>& arg) {
    std::cout << "Help requested: " << arg->getDescription() << std::endl;

    // Print the command-line options and their descriptions
    std::cout << "Available command-line options:" << std::endl;
    for (const auto& argData : argumentDefinitions) {
        std::cout << " " << argData.longName << ", " << argData.shortName << "
n " << argData.description << std::endl;
    }
    exit(0);
}

void handleVersion(const std::shared_ptr<Argument>& arg) {
    std::cout << VERSION << std::endl;
    exit(0);
}

void handleDumpConfig(const std::shared_ptr<Argument>& arg) {
    dumpDefaultConfig();
    exit(0); // You might want to exit the program after dumping the config

```

```

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}

void dumpDefaultConfig() {
    nlohmann::json defaultConfig = DefaultSettings::getDefaultConfig();
    std::ofstream configFile("config.json");
    configFile << defaultConfig.dump(4); // '4' for pretty printing
    configFile.close();

    std::cout << "Default configuration dumped to config.json" << std::endl;
}

std::map<std::string, Argument> ArgumentConfig::getDefinedArguments() {
    std::map<std::string, Argument> definedArgs;
    for (const auto& argData : argumentDefinitions) {
        definedArgs.emplace(argData.longName, Argument(argData));
    }
    return definedArgs;
}

void ArgumentConfig::setupArguments(CommandLineProcessor& cmdProcessor) {
    // Define your arguments
    Argument helpArg("--help", "-h", "Display help information", true, false, E_
Argument_ValueType::None);
    Argument versionArg("--version", "-v", "Display version information", true,
false, E_Argument_ValueType::None);
    Argument dumpConfigArg("--dumpconfig", "-D", "Dumps the default settings to
config.json", true, false, E_Argument_ValueType::None);

    // Add handler functions
    cmdProcessor.AddArgumentHandler(helpArg, handleHelp);
    cmdProcessor.AddArgumentHandler(versionArg, handleVersion);
    cmdProcessor.AddArgumentHandler(dumpConfigArg, handleDumpConfig);
    // ... other handlers ...
}

---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLinePro
cessor/ArgumentConfig.cpp ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineP
rocessor/ConfigManager.cpp ----
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  along with AppFramework. If not, see <https://www.gnu.org/licenses/>.
*/
// ConfigManager.cpp

#include "Arguments.hpp"
#include "ConfigManager.hpp"
#include "Logger.hpp"
#include <DefaultSettings.hpp>
#include <nlohmann/json.hpp>

```

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<pre> #include &lt;iostream&gt; #include &lt;fstream&gt; #include &lt;sstream&gt;  #ifdef THREAD_SAFE std::mutex ConfigManager::mtx; #endif  template&lt;typename T&gt; void ConfigManager::set(const std::string&amp; key, const T&amp; value) {     #ifdef THREAD_SAFE     std::lock_guard&lt;std::mutex&gt; lock(mtx);     #endif      nlohmann::json&amp; ref = getRefToValue(key);     ref = value; }  template&lt;typename T&gt; T ConfigManager::get(const std::string&amp; key) const {     #ifdef THREAD_SAFE     std::lock_guard&lt;std::mutex&gt; lock(mtx);     #endif      // Check if a command line argument exists and has a value for the key     if (commandLineArgs.find(key) != commandLineArgs.end()) {         std::istream valueStream(commandLineArgs.at(key));         T typedValue;         valueStream &gt;&gt; typedValue;         return typedValue;     }      try {         const nlohmann::json&amp; ref = getRefToValue(key, true);         return ref.get&lt;T&gt;();     } catch (const nlohmann::json::out_of_range&amp; e) {         // Handle the case where the key does not exist         Logger::getInstance().log("Key not found in configuration: " + key, "ConfigManager::get", Logger::Severity::Warning);     }      return T(); // Returns a default-constructed object of type T     // Additional catch for other JSON exceptions might be needed }  ConfigManager::ConfigManager(const std::string&amp; configFile_path, const Arguments&amp; cmdArgs): filePath(configFile_path), cmdArgs(cmdArgs) {     applyDefaults();      std::ifstream file(filePath);     if (file) {         try {             nlohmann::json fileConfig;             file &gt;&gt; fileConfig;             config.merge_patch(fileConfig);              std::cout &lt;&lt; "ConfigManager::ConfigManager:" &lt;&lt; std::endl;             std::cout &lt;&lt; config.dump(4) &lt;&lt; std::endl;         } catch (const nlohmann::json::parse_error&amp; e) {             std::cout &lt;&lt; "Caught an exception" &lt;&lt; std::endl;             Logger::getInstance().log("JSON parsing error: " + std::string(e.what()), "ConfigManager::ConfigManager", Logger::Severity::Error);             std::cout &lt;&lt; "Configuration loading error. Check log file for detail </pre>		

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<pre> s." &lt;&lt; std::endl;     }     } else {         Logger::getInstance().log("Config file not found: " + filePath, "ConfigManager::ConfigManager", Logger::Severity::Warning);         std::cerr &lt;&lt; "Configuration file missing. A new one will be created." &lt;&lt; std::endl;         config = nlohmann::json::object(); // Initialize config as an empty object     }      // Parse and store command line arguments from cmdArgs     for (const auto&amp; argPair : cmdArgs.getArgValues()) {         std::string key = argPair.first;         std::string value = argPair.second;         commandLineArgs[key] = value;     } }  void ConfigManager::applyDefaults() {     auto defaultConfig = DefaultSettings::getDefaultConfig();     config = defaultConfig; // Start with default config      std::ifstream file(filePath);     if (file) {         try {             nlohmann::json fileConfig;             file &gt;&gt; fileConfig;             mergeJson(config, fileConfig);         } catch (const nlohmann::json::parse_error&amp; e) {             Logger::getInstance().log("JSON parsing error: " + std::string(e.what()), "ConfigManager::ConfigManager", Logger::Severity::Error);         }     } }  void ConfigManager::mergeJson(nlohmann::json&amp; base, const nlohmann::json&amp; update) {     for (auto&amp; el : base.items()) {         if (update.contains(el.key())) {             if (el.value().is_object() &amp;&amp; update[el.key()].is_object()) {                 mergeJson(base[el.key()], update[el.key()]);             } else {                 // For non-object types, or if the type in 'update' differs, overwrite the value in 'base'                 base[el.key()] = update[el.key()];             }         }     } }  void ConfigManager::parseCommandLineArgs(int argc, char** argv) {     for (int i = 1; i &lt; argc; ++i) {         std::string arg = argv[i];         if (arg.size() &gt;= 2 &amp;&amp; arg.substr(0, 2) == "--") {             size_t equalPos = arg.find('=');             if (equalPos != std::string::npos) {                 std::string key = arg.substr(2, equalPos - 2);                 std::string value = arg.substr(equalPos + 1);                 commandLineArgs[key] = value;             }         }     } } </pre>		



```

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nlohmann::json& ConfigManager::getRefToValue(const std::string& key) {
    nlohmann::json* j = &config;
    std::istringstream iss(key);
    std::string token;
    while (std::getline(iss, token, '.')) {
        j = &((*j)[token]);
    }
    return *j;
}

// Explicit template instantiation
template int ConfigManager::get<int>(const std::string& key) const;
template std::string ConfigManager::get<std::string>(const std::string& key) const;
template void ConfigManager::set<int>(const std::string& key, const int& value);
template void ConfigManager::set<std::string>(const std::string& key, const std::string& value);

ConfigManager::~ConfigManager() {}
// Other methods...
---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineProcessor/ConfigManager.cpp ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineProcessor/Argument.cpp ----
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*/
// Argument.cpp

#include "Argument.hpp"

Argument::Argument(    const std::string& longname,
                      const std::string& shortname,
                      const std::string& description,
                      bool hasShortValue,
                      bool needValue,
                      E_Argument_ValueType valueType) :
                      longName(longname),
                      shortName(shortname),
                      description(description),
                      hasShortValueflag(hasShortValue),
                      needValue(needValue),
                      valueType(valueType) {}

Argument::Argument(const ArgumentData& data):
longName(data.longName),
shortName(data.shortName),

```

```

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description(data.description),
hasShortValueflag(data.hasShortValue),
needValue(data.needValue),
valueType(data.valueType),
defaultValue(data.defaultValue),
hasDefaultValueFlag(data.hasDefaultValueFlag) {}

std::string          Argument::getLongName()      const    {return
longName;}
std::string          Argument::getShortName()     const    {return
shortName;}
std::string          Argument::getDescription()   const    {return
description;}
bool                 Argument::hasShortValue()    const
{return hasShortValueflag;}
bool                 Argument::needsValue()       const
{return needValue;}
E_Argument_ValueType Argument::getValueType()     const    {return valueType;}

void Argument::setValue(const std::string& value) {
    this->value = value;
}

void Argument::setDefaultValue(const std::string& defaultValue) {
    this->defaultValue = defaultValue;
    this->hasDefaultValueFlag = true;
}

std::string Argument::getDefaultValue() const {
    return defaultValue;
}

bool Argument::hasDefaultValue() const {
    return hasDefaultValueFlag;
}

//CHANGED: Moved the template function definition to the header file
template <typename T>
T Argument::getValue() const {
    // Check if a value has been set for this argument
    if (value.empty()) {
        // If no value has been set and a default value is available, return it
        if (hasDefaultValueFlag) {
            std::istringstream defaultValueStream(defaultValue);
            T defaultValueValue;
            defaultValueStream >> defaultValueValue;
            return defaultValueValue;
        } else {
            // If no value or default value is available, throw an exception or
            return a suitable default value
            throw std::logic_error("No value set for this argument.");
        }
    }

    // Convert the stored string value to the requested type based on valueType
    std::istringstream valueStream(value);
    T typedValue;

    // Use try-catch for error handling during conversion
    try {
        valueStream >> typedValue;

```

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	<pre>     } catch (const std::exception&amp; e) {         // Conversion failed; throw an exception or handle the error accordingly         throw std::invalid_argument("Error converting argument value to the requ ested type.");     }      if (valueStream.fail()    !valueStream.eof()) {         // Conversion failed or there is extra data in the string         throw std::invalid_argument("Invalid argument value.");     }      return typedValue; } // Instantiate the template function for specific types you use in Argument.cpp template std::string Argument::getValue&lt;std::string&gt;() const; template int Argument::getValue&lt;int&gt;() const; template float Argument::getValue&lt;float&gt;() const;---- END OF FILE: /home/henrik/ Projekter/AppFramework/subprojects/CommandLineProcessor/Argument.cpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineP rocessor/ConfigManager.hpp ---- /*     This file is part of the AppFramework project.      AppFramework is free software: you can redistribute it and/or modify     it under the terms of the GNU General Public License as published by     the Free Software Foundation, GPL version 4.      AppFramework is distributed in the hope that it will be useful,     but WITHOUT ANY WARRANTY; without even the implied warranty of     MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the     GNU General Public License version 4 for more details.      You should have received a copy of the GNU General Public License     along with AppFramework. If not, see &lt;https://www.gnu.org/licenses/&gt;. */  // ConfigManager.hpp  #ifndef CONFIGMANAGER_HPP #define CONFIGMANAGER_HPP  #include "Arguments.hpp" #include &lt;iostream&gt; #include &lt;string&gt; #include &lt;mutex&gt; #include &lt;nlohmann/json.hpp&gt; #include &lt;unordered_map&gt;  class ConfigManager { public:     ConfigManager(const std::string&amp; configFilePath, const Arguments&amp; cmdArgs);     ~ConfigManager();      void applyDefaults();     void mergeJson(nlohmann::json&amp; base, const nlohmann::json&amp; update);      template&lt;typename T&gt;     T get(const std::string&amp; key) const;      template&lt;typename T&gt;     void set(const std::string&amp; key, const T&amp; value); </pre>	

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	<pre>     void sync();  private:     const Arguments&amp; cmdArgs; // Reference to an Arguments instance     nlohmann::json config;     std::string filePath;      const nlohmann::json&amp; getRefToValue(const std::string&amp; key, bool forRead) co nst;     nlohmann::json&amp; getRefToValue(const std::string&amp; key);      std::unordered_map&lt;std::string, std::string&gt; commandLineArgs; // Store comma nd line arguments      void parseCommandLineArgs(int argc, char** argv);  #ifdef THREAD_SAFE     static std::mutex mtx; #endif };  #endif // CONFIGMANAGER_HPP ---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLinePro cessor/ConfigManager.hpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineP rocessor/Arguments.hpp ---- /*     This file is part of the AppFramework project.      AppFramework is free software: you can redistribute it and/or modify     it under the terms of the GNU General Public License as published by     the Free Software Foundation, GPL version 4.      AppFramework is distributed in the hope that it will be useful,     but WITHOUT ANY WARRANTY; without even the implied warranty of     MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the     GNU General Public License version 4 for more details.      You should have received a copy of the GNU General Public License     along with AppFramework. If not, see &lt;https://www.gnu.org/licenses/&gt;. */  //Arguments.hpp  #ifndef ARGUMENTS_HPP #define ARGUMENTS_HPP  #include "Argument.hpp" #include &lt;string&gt; #include &lt;map&gt; #include &lt;stdexcept&gt; #include &lt;vector&gt;  class Arguments { public:     Arguments(int argc, char* argv[], const std::map&lt;std::string, Argument&gt;&amp; def inedArgs);      const std::map&lt;std::string, std::string&gt;&amp; getArgValues() const { return argV alues; } </pre>	

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<pre> std::string getArgValue(const std::string&amp; argName) const; bool isInArgs(const std::string&amp; str) const; std::vector&lt;std::string&gt; getGtkArguments() const; private:     std::map&lt;std::string, std::string&gt; argValues; // Maps argument names to their values };  #endif // ARGUMENTS_HPP  ---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineProcessor/Arguments.hpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineProcessor/CMakeLists.txt ---- cmake_minimum_required(VERSION 3.10)  # Define the CommandLineProcessor library add_library(CommandLineProcessor     ArgumentConfig.cpp     Argument.cpp     Arguments.cpp     CommandLineProcessor.cpp     ConfigManager.cpp     DefaultSettings.cpp )  # Set include directories for CommandLineProcessor library target_include_directories(CommandLineProcessor     PUBLIC \${CMAKE_CURRENT_SOURCE_DIR} )  # Link CommandLineProcessor with other subproject dependencies (if any) target_link_libraries(CommandLineProcessor     PRIVATE         Logger         StringUtils         TimeUtils         EnvVar     # Add any other dependencies as needed ) ---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineProcessor/CMakeLists.txt ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineProcessor/Arguments.cpp ---- /*     This file is part of the AppFramework project.      AppFramework is free software: you can redistribute it and/or modify     it under the terms of the GNU General Public License as published by     the Free Software Foundation, GPL version 4.      AppFramework is distributed in the hope that it will be useful,     but WITHOUT ANY WARRANTY; without even the implied warranty of     MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the     GNU General Public License version 4 for more details.      You should have received a copy of the GNU General Public License     along with AppFramework. If not, see &lt;https://www.gnu.org/licenses/&gt;. */ </pre>		

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<pre> // Arguments.cpp  #include &lt;iostream&gt; #include "Arguments.hpp"  Arguments::Arguments(int argc, char* argv[], const std::map&lt;std::string, Argument&gt;&amp; definedArgs) {     for (const auto&amp; argPair : definedArgs) {         if (argPair.second.hasDefaultValue()) {             argValues[argPair.first] = argPair.second.getDefaultValue();         }     }      for (int i = 1; i &lt; argc; ++i) {         std::string currentArg = argv[i];         auto it = definedArgs.find(currentArg);          if (it == definedArgs.end()) {             for (const auto&amp; argPair : definedArgs) {                 if (argPair.second.getShortName() == currentArg) {                     it = definedArgs.find(argPair.second.getLongName());                     break;                 }             }         }          if (it != definedArgs.end()) {             const Argument&amp; arg = it-&gt;second;              if (arg.needsValue()) {                 if (i + 1 &lt; argc) {                     argValues[it-&gt;first] = argv[i + 1];                     ++i;                 } else {                     throw std::runtime_error("Missing argument value for " + currentArg);                 }             } else {                 argValues[it-&gt;first] = "";             }         } else {             throw std::runtime_error("Unknown argument " + currentArg);         }     } }  std::string Arguments::getArgValue(const std::string&amp; argName) const {     auto it = argValues.find(argName);     if (it != argValues.end()) {         return it-&gt;second;     }     return ""; }  bool Arguments::isInArgs(const std::string&amp; str) const {     return argValues.find(str) != argValues.end(); }  std::vector&lt;std::string&gt; Arguments::getGtkArguments() const {     std::vector&lt;std::string&gt; gtkArgs;      for (const auto&amp; argPair : argValues) { </pre>		

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    const std::string& arg = argPair.first;

    // Check if the argument is a GTK argument
    if (arg.find("--gtk-") == 0) {
        // Construct the argument string as it would appear on the command l
ine
        std::string argStr = arg + (argPair.second.empty() ? "" : "=" + argP
air.second);
        gtkArgs.push_back(argStr);
    }

    return gtkArgs;
}
}

---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLinePr
ocessor/Arguments.cpp ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineP
rocessor/Argument.hpp ----
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    along with AppFramework. If not, see <https://www.gnu.org/licenses/>.
*/
//Argument.hpp

#ifndef ARGUMENT_HPP
#define ARGUMENT_HPP

#include <string>
#include <sstream>
#include <stdexcept>

enum class E_Argument_ValueType {
    None,
    Integer,
    Float,
    String,
    // Add more types as needed
};

// Define a struct to hold all argument data (if you are using this approach)
struct ArgumentData {
    std::string longName;
    std::string shortName;
    std::string description;
    bool hasShortValue;
    bool needValue;
    E_Argument_ValueType valueType;
    std::string defaultValue;
    bool hasDefaultValue;
};

```

```

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class Argument {
public:
    Argument(const std::string& longname,
              const std::string& shortname,
              const std::string& description,
              const bool hasShortValue,
              const bool needValue,
              const E_Argument_ValueType valueType);

    // Constructor that takes ArgumentData struct
    Argument(const ArgumentData& data);

    std::string getLongName() const;
    std::string getShortName() const;
    std::string getDescription() const;
    bool hasShortValue() const;
    bool needsValue() const;
    E_Argument_ValueType getValueType() const;

    void setValue(const std::string& value);
    void setDefaultValue(const std::string& defaultValue);
    std::string getDefaultValue() const;
    bool hasDefaultValue() const;

    //CHANGED: Moved the template function definition to the header file
    template <typename T>
    T getValue() const;

private:
    std::string longName;
    std::string shortName;
    std::string description;
    bool hasShortValueflag;
    bool needValue;
    E_Argument_ValueType valueType;
    std::string value; // Store the value as a string

    // New members for default value handling
    std::string defaultValue;
    bool hasDefaultValueFlag = false;
};

#endif // ARGUMENT_HPP

---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLinePro
cessor/Argument.hpp ----

---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineP
rocessor/CommandLineProcessor.cpp ----
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```

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<pre> You should have received a copy of the GNU General Public License along with AppFramework. If not, see &lt;https://www.gnu.org/licenses/&gt;. */  //CommandLineProcessor.cpp  #include &lt;iostream&gt; #include "CommandLineProcessor.hpp"  CommandLineProcessor::CommandLineProcessor(const Arguments&amp; args) : args(args) { }  void CommandLineProcessor::AddArgumentHandler(const Argument&amp; arg, ArgumentHandler handler) {     auto argPtr = std::make_shared&lt;Argument&gt;(arg);     handlers[arg.getLongName()] = ArgumentHandlerPair(argPtr, handler);      if (!arg.getShortName().empty()) {         handlers[arg.getShortName()] = ArgumentHandlerPair(argPtr, handler);     } }  void CommandLineProcessor::Process() {     for (const auto&amp; argPair : args.getArgValues()) {         std::string argName = argPair.first;          auto it = handlers.find(argName);         if (it != handlers.end()) {             // Update the value of the argument before calling the handler             it-&gt;second.arg-&gt;setValue(argPair.second);             it-&gt;second.handler(it-&gt;second.arg);         } else {             std::cout &lt;&lt; "No handler found for: " &lt;&lt; argName &lt;&lt; std::endl;         }     } } }---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineProcessor/CommandLineProcessor.cpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineProcessor/DefaultSettings.hpp ---- /* This file is part of the AppEssential project.  AppEssential is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, GPL version 4.  AppEssential is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License version 4 for more details.  You should have received a copy of the GNU General Public License along with AppEssential. If not, see &lt;https://www.gnu.org/licenses/&gt;. */  //DefaultSettings.hpp  #ifdef DEFAULTSETTINGS_HPP #define DEFAULTSETTINGS_HPP </pre>		

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<pre> #include &lt;nlohmann/json.hpp&gt;  class DefaultSettings { public:     static const nlohmann::json defaultConfig;     static const nlohmann::json getDefaultConfig(); };  #endif // DEFAULTSETTINGS_HPP ---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineProcessor/DefaultSettings.hpp ----  ---- START OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLineProcessor/CommandLineProcessor.hpp ---- /* This file is part of the AppFramework project.  AppFramework is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, GPL version 4.  AppFramework is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License version 4 for more details.  You should have received a copy of the GNU General Public License along with AppFramework. If not, see &lt;https://www.gnu.org/licenses/&gt;. */  //CommandLineProcessor.hpp  #ifdef COMMANDLINEPROCESSOR_HPP #define COMMANDLINEPROCESSOR_HPP  #include &lt;functional&gt; #include &lt;map&gt; #include &lt;string&gt; #include &lt;memory&gt; #include "Argument.hpp" #include "Arguments.hpp"  using ArgumentHandler = std::function&lt;void(const std::shared_ptr&lt;Argument&gt;&amp;)&gt;;  struct ArgumentHandlerPair {     std::shared_ptr&lt;Argument&gt; arg;     ArgumentHandler handler;      ArgumentHandlerPair(std::shared_ptr&lt;Argument&gt; arg, const ArgumentHandler&amp; handler)         : arg(std::move(arg)), handler(handler) {}      ArgumentHandlerPair() = default; };  class CommandLineProcessor { public:     explicit CommandLineProcessor(const Arguments&amp; args);      void AddArgumentHandler(const Argument&amp; arg, ArgumentHandler handler);     void Process(); </pre>		

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private:
    const Arguments& args;
    std::map<std::string, ArgumentHandlerPair> handlers;
};

#endif // COMMANDLINEPROCESSOR_HPP
---- END OF FILE: /home/henrik/Projekter/AppFramework/subprojects/CommandLinePro
cessor/CommandLineProcessor.hpp ----
```