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Facultad de Ingeniería
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Curso: Ingeniería de Software 1 (2016701)

JOHN ILL GITTILL	COMPI	LE C++	FILE
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ACTORS

- User
- Compilation Module

REQUIREMENT

FR_12 – The system must compile C++ files directly from the editor.

DESCRIPTION

This use case describes how a user compiles a C++ source file using the built-in functionality of the editor. The system uses a predefined C++ compiler and displays any compilation errors or success messages within the interface. The system has a built-in compiler setting, though they may be changed by the user

PRE-CONDITIONS

- A C++ file must be open and saved.
- The file must have a valid name and extension (e.g., .cpp).

NORMAL FLOW

- 1. The user clicks the "Compile" button or selects "Compile" from the menu.
- 2. The system identifies the active C++ file and its path.
- 3. The system invokes the compiler with the appropriate flags.
- 4. The system captures the output of the compilation process.
- 5. If successful, the system indicates compilation success.

ALTERNATIVE FLOW

- 1. If the file is not saved:
 - 1.1. The system saves it automatically and then compiles the code.
- 2. If an error occurs during compilation:
 - 2.1. The system will stop the compilation process.
 - 2.2. The error which caused the compilation to stop will be shown to the user.

POST-CONDITIONS

- A compiled executable is generated (if successful).
- The user is informed about the status of the compilation.

NOTES

- Compiler paths and flags should be configurable in system settings.
- The system should allow compilation from keyboard shortcuts as well.