Universidad Nacional de Colombia - sede Bogotá
Facultad de Ingeniería
Departamento de Sistemas e Industrial
Curso: Ingeniería de Software 1 (2016701)

DISPLAY PROJECT STRUCTURE	
ACTORS User System	**REQUIREMENTS** **FR_8:** The system must display the project structure as a file tree, showing the folder and file hierarchy.

DESCRIPTION

The system automatically renders the structure of the current project directory in a file tree format. This helps users navigate between files and folders more easily during coding.

PRECONDITIONS

- A folder must be opened, this opened folder is the root of the file tree.

NORMAL FLOW

1. The user opens a folder as the root of the file tree.
2. The system scans the folder and its subdirectories recursively.
3. The file and folder hierarchy is parsed and structured into a tree.
4. The file tree is rendered in the editor's side panel.
5. The user can expand or collapse folders and click to open files.

POSTCONDITIONS

- The full directory structure is available and interactive in the side panel.
- The project explorer is updated whenever file system changes occur.

NOTES

- Hidden files and folders should be optionally visible based on user settings.