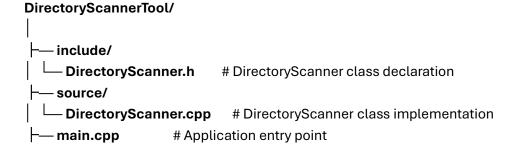
# **Developer Guide**

#### **Overview**

This project is a C++14 console application for scanning directories and reporting file statistics, designed for easy extension and maintenance.

## **Project Structure**



### **Building the Application**

#### Requirements

- Visual Studio 2022 or later (C++14 support)
- Windows OS (using Windows API for file operations)

#### Steps

- Open the solution in Visual Studio.
- Build the solution (Build > Build Solution).

#### **Code Overview**

#### main.cpp

Parses command-line arguments and calls the main menu function.

#### **DirectoryScanner**

- Handles user interaction, directory scanning, and output.
- Supports both interactive and command-line-driven operation.
- Uses Windows API for directory and file operations.
- Class is separated by Core functions (MainMenu, ScanInputDirectory, etc) and Helper functions (HasValidExtensions, ScanDirectoryRecursive, etc).

## Adding/Modifying File Extensions

Valid file extensions are defined in DirectoryScanner.h as a std::vector<std::string>m\_ValidExtensions.

• To add or remove extensions, modify this vector.

# **Error Handling**

- The application validates user input and file paths.
- Exits gracefully on user request or unrecoverable errors.

# **Maintenance Tips**

- Keep logic for user interaction and file scanning separated for clarity.
- Use the provided setter methods for changing internal state.
- Follow the existing commenting and code style for consistency.