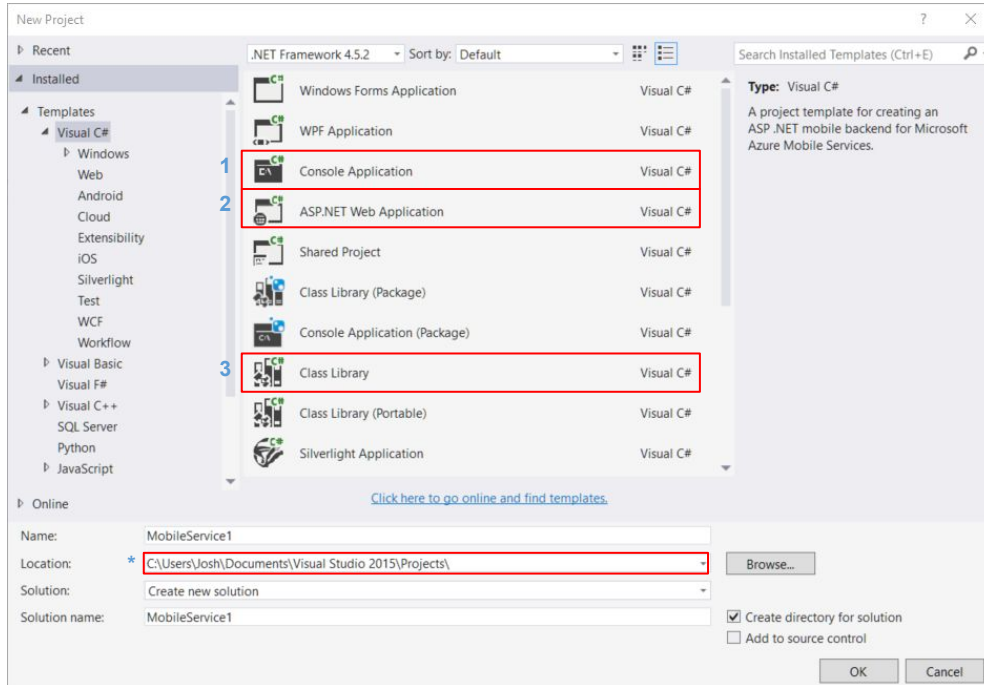# TECH ELEVATOR

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Visual Studio 2015 Reference

New Project Dialog

Visual Studio provides different project templates based on the application you need to create:

1. **Console Application** - template for creating a command-line application

2. **ASP.NET Web Application** - template for creating ASP.NET Web Applications (Web Forms, MVC, and Web API)

3. **Class Library -** project template for creating a class library (.dll)
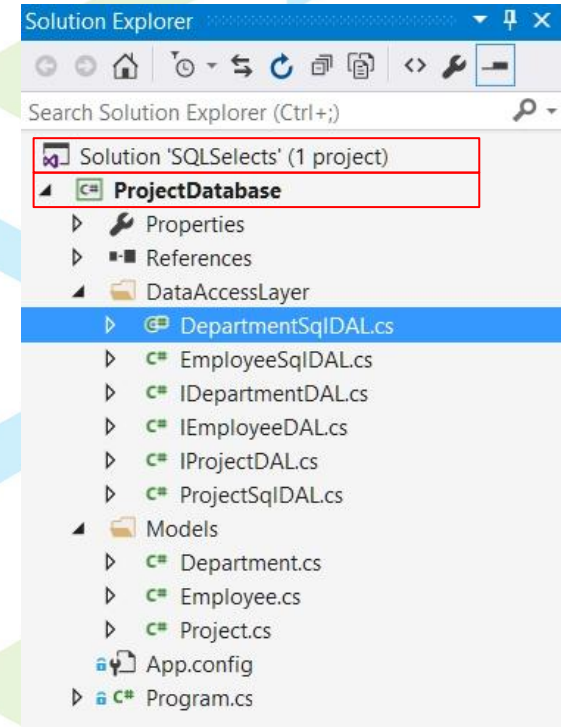
Solution Explorer

The solution explorer provides you an organized view of your projects and their files.

Solutions can contain multiple projects. Our computer uses a solution file to store a reference to all of the projects that belong.

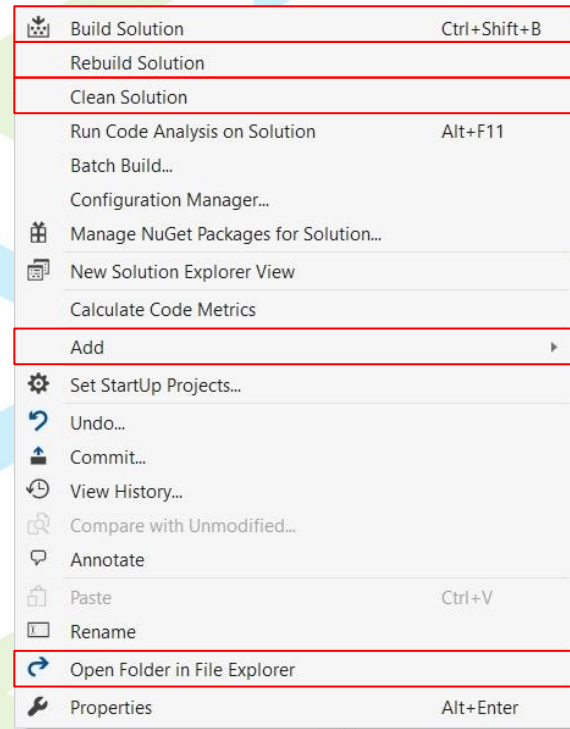The project shown in bold font is selected as the **Startup Project**.

To access the Solution Explorer:
Select **Solution Explorer** on the **View** menu.

Solution Context Menu

The solution context-menu gives you a number of commands to run against all of the projects in a solution.

Command	Description
Build Solution `Ctrl+Shift+B`	Compiles all projects currently in the solution (saves all unsaved work)
Rebuild Solution	Removes all compiled and output files leaving only code files then compiles each solution
Clean Solution	Removes all compiled and output files leaving only code files
Add	Sub-menu to add new items to a solution (i.e. New Project dialog, Existing Project dialog, New Solution Folder*)
Open Folder in File Explorer	Opens the File Explorer to the location that the project is stored on the computer.

*A solution folder is a virtual folder used to group projects together to help arrange your solution. It does not represent a physical folder stored on the computer.

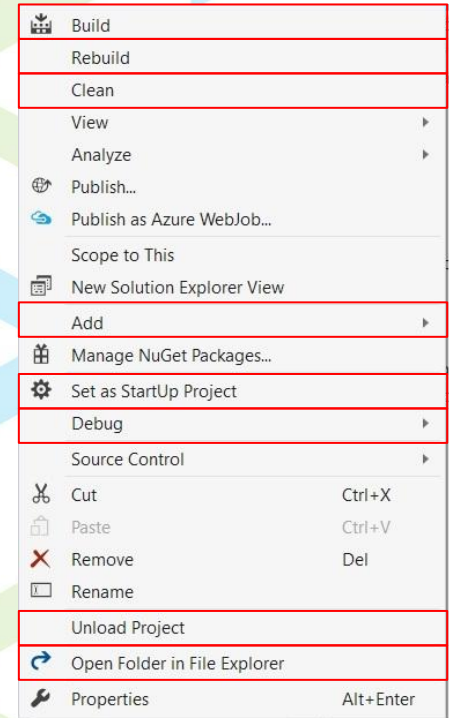|		
Build Solution	Ctrl+Shift+B
Rebuild Solution	
Clean Solution	
Run Code Analysis on Solution	Alt+F11
Batch Build...	
Configuration Manager...	
Manage NuGet Packages for Solution...	
New Solution Explorer View	
Calculate Code Metrics	
Add	▶
Set StartUp Projects...	
Undo...	
Commit...	
View History...	
Compare with Unmodified...	
Annotate	
Paste	Ctrl+V
Rename	
Open Folder in File Explorer	
Properties	Alt+Enter

To access the Solution Context Menu:
Right click the solution within the Solution Explorer

Project Context Menu

The project context-menu gives you a number of commands to run against a selected project.

Command	Description
Build	Compiles the individual project (saves all unsaved work)
Rebuild	Removes all compiled and output files leaving only code files then compiles
Clean	Removes all compiled and output files leaving only code files
Add	Sub-menu to add new items to a project (i.e. New Item dialog, Existing Item dialog, New Folder, New Class, etc.)
Set as StartUp Project	Sets the selected project to startup. This will be the project that runs.
Debug	Sub-menu to run project with debugging turned on/off.
Unload Project	Removes the project from the solution compile process. Does not remove from the solution.
Open Folder in File Explorer	Opens the File Explorer to the location that the project is stored on the computer.

To access the Project Context Menu:
Right click on the project within the Solution Explorer

Useful Visual Studio Shortcuts

General Shortcuts

Command	Description
Ctrl+X	Cuts the currently selected item to clipboard
Ctrl+C	Copies the currently selected item to clipboard
Ctrl+V	Pastes the item in the clipboard
Ctrl+Z	Undo the previous action
Ctrl+Y	Redo previous action
Ctrl+S	Saves the selected file in the current project
Ctrl+F	Opens find dialog set to search in current project
Ctrl+Shift+F	Opens find dialog set to search entire solution
Shift+F12	Finds all references in your code of selected item

Text Navigation

Command	Description
End	Moves the cursor to the end of the current line
Home	Moves cursor to beginning of the line
Ctrl+End	Moves cursor to end of the document
Ctrl+Home	Moves cursor to start of the document
Ctrl+]	Moves cursor to matching brace
Ctrl+Right Arrow	Moves cursor one word to the right
Ctrl+Left Arrow	Moves cursor one word to the left

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Useful Visual Studio Shortcuts

Text Manipulation

Command	Description
Ctrl+K, Ctrl+C	Marks currently selected line(s) as a comment
Ctrl+K, Ctrl+U	Removes comment syntax from selected line(s)
Ctrl+K, Ctrl+D	Applies indenting and space formatting for the language on screen.
Ctrl+U	Changes selected text to lowercase
Ctrl+Shift+U	Changes selected text to uppercase
Ctrl+R, Ctrl+W	Shows/hides spaces and tab marks
Ctrl+. (dot)	Displays options on the smart tag menu

Text Selection

Command	Description
Ctrl+Shift+End	Moves cursor to end of document, extending selection
Ctrl+Shift+Home	Moves cursor to beginning of document, extending the selection
Ctrl+Shift+]	Moves cursor to next brace, extending the selection
Shift+End	Moves cursor to end of line, extending selection
Shift+Home	Moves cursor to start of line, extending selection
Ctrl+A	Selects everything in the document

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Useful Visual Studio Shortcuts

Search and Replace

Command	Description
F3	Finds next occurrence of the previous search text
Ctrl+I	Incremental search. Type in a few characters and keep pressing Ctrl+I to find each occurrence.
Ctrl+H	Displays the Replace dialog

Debugging

Command	Description
F5	If not debugging, runs the startup project and attaches the debugger. If debugging, allows execution to continue.
Ctrl+F5	Runs program without invoking the debugger.
F11	Executes code one line at a time, stepping into function calls. (Step In)
Shift+F11	Executes remaining lines of code within a function. (Step Out)
F10	Executes next line of code but does not step into any function calls.
F9	Adds/removes a breakpoint at the current line

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