

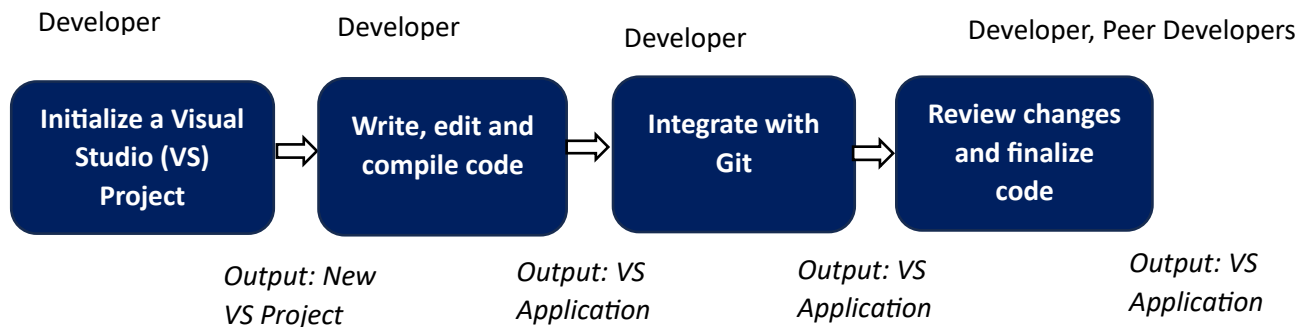
Research Notes

Process Matrix: Mastering Visual Studio-Coding and Git Integration

Activity	Procedure/Tasks	Subtasks	Actor	Inputs	Outputs
Working with Visual Studio and Git	Initialize a VS project	Download and install Visual Studio (VS)	User/Technical audience	VS settings	VS Application on Personal Computer (PC)
		Explore the interface	User/Technical audience	VS Application on PC	Knowledge of the User Interface
		Create a new project	User/Technical audience	UI + Template and preference settings	New VS project in the local environment
	Write, edit and compile code	Explore Code Editor	User/Tech audience	New VS project in the local environment	Feature usage for easier coding
		Learn keyboard shortcuts and code helper tools	User/Technical audience	Feature usage for easier coding	Improved coding efficiency
		Compile code and check for errors – Syntax and functionality	User/Technical audience	Improved coding efficiency	Successful error-free code
	Integrate Git with VS	Configure Git settings	User/Technical audience	Successful error-free code	Git repository initialized
		Commit code changes	User/Technical audience	Initialized Git repository	Code in local branch
		Handle code conflicts during code push	User/Technical audience	Code in local branch	Conflict-free code
	Review Changes	Create a Pull Request	User/Technical audience	Conflict-free code + choice of remote branch	Pull Request raised
		Seek peer approval	User/Technical audience and Peer Developers	Pull Request	Approval for code merge
		Merge code	User/Technical audience	Approval for code merge	Code merge to remote branch
		Inspect code changes	User/Technical audience	Merged code to remote branch	Code revision, Git version control and branch switching

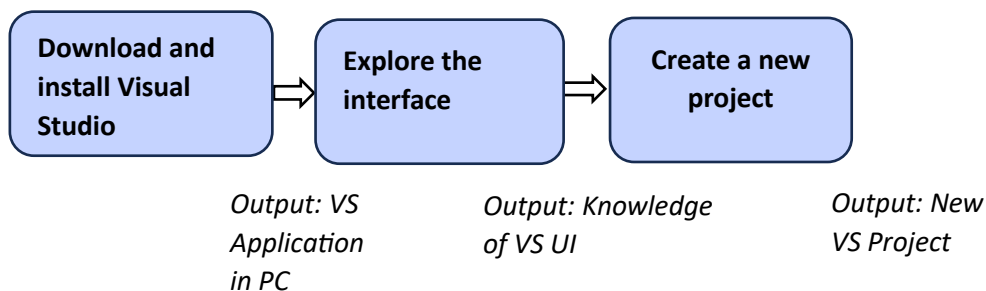
Process Map

Process: Mastering Visual Studio - Coding and Git Integration



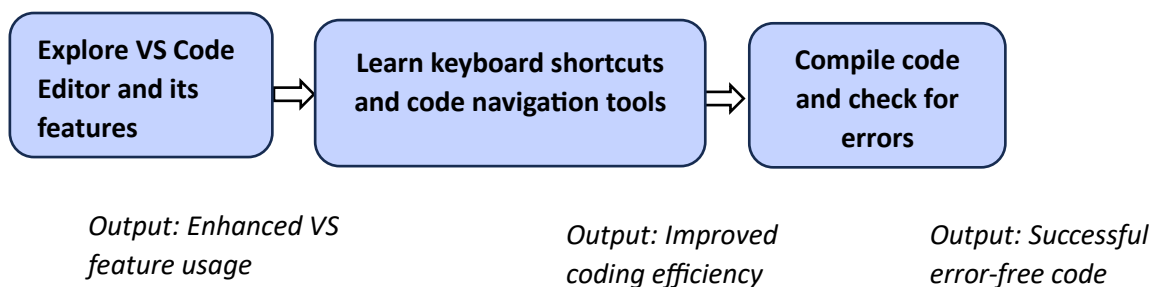
a) Sub-Process: Initialize a Visual Studio Project

Actor: Developer



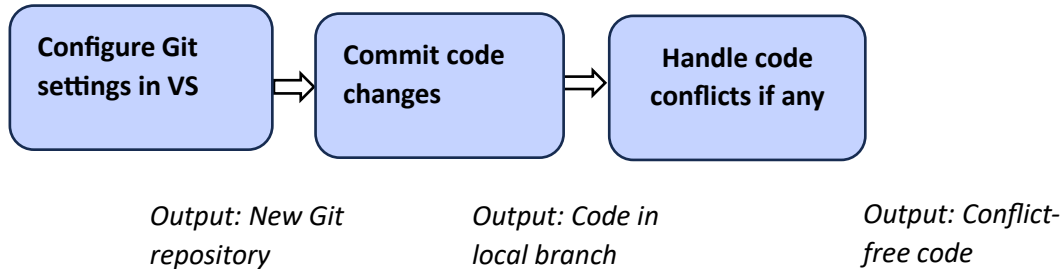
b) Sub-Process: Write, edit and compile code

Actor: Developer



c) Sub-Process: Integrate Git

Actor: Developer



d) Sub-Process: Review Changes and Finalize Code

