I'd be glad to expand on the **NexusScript** coding interface, focusing on features that make it robust, engaging for a multiplayer learning environment, and visually appealing within the CLI framework. This expansion adds features for debugging, team collaboration, and hardware interaction. ******

5. Expanded NexusScript Coding Interface Features

The interface must be more than just a terminal; it needs to be a fully functional coding and collaboration environment that lives within the Virtual Computer (VC).

A. The In-Game Module Editor (edit Command)

The primary interface for writing code is the **Module Editor**.

Feature	Command Syntax	Description	Learning & Utility
Access/Save	edit \$module_name	Opens or creates a script file. save and exit are sub-commands	Teaches version control and file management.
		within the editor environment.	
Syntax Highlighting	(Automatic)	Within the editor, NexusScript keywords (func, if, set), variables (\$), and comments (#) are color-coded.	· · ·
Code Snippets	insert snippet [type]	Automatically pastes common structures (e.g., if blocks, for loops, a standard exploit template).	Reduces mobile typing fatigue and promotes correct structure usage.
Error Feedback	debug \$module_name	Runs a dry-run check of the code. Catches basic syntax errors (e.g., mismatched brackets, undeclared variables) before execution.	Teaches static code analysis and debugging fundamentals.

B. Dynamic Debugging and Logging

Debugging in **Code Nexus** is a hands-on process, forcing players to trace execution flow and resource usage.

Feature	Command Syntax	Functionality	Learning Objective
Trace Mode (VIP	run \$module_name	Executes the script	Deepens
Feature)		after each line and	understanding of execution flow and variable state.

Feature	Command Syntax	Functionality	Learning Objective
		properties.	
VC Resource Monitor	vc status	Computer: CPU load,	Teaches Performance and Resource Management. A poorly-coded loop can
		bandwidth saturation.	spike CPU, leading to module crash or detection.
Conditional	run \$modulebreak	Pauses script execution	Introduces the concept
Breakpoints	[line_number]	at a specific line.	of advanced
		Essential for isolating	debugging
		complex logical errors	techniques used in
		in late-game modules.	professional IDEs.
External Log Retrieval	target_log read [type]	Fetches simulated logs from the target system, allowing the player to see why an attack failed (e.g., "Connection refused on Port 22").	with target security measures.

C. Multiplayer Collaboration Features

To support the multiplayer nature, the interface includes tools for sharing, selling, and collaborating on code modules.

Feature	Command Syntax	Utility	Player Interaction
Module Sharing	share \$module_name @[player_ID]	Encrypts and sends a	Facilitates co-op missions and team coding.
Community Marketplace	market view module \$name	marketplace where players can buy or sell	Creates an internal, player-driven economy for valuable, complex scripts.
Module Trust Score	(Automatic)	shared/sold modules	Encourages players to write clean, efficient, and trustworthy code.

D. Advanced Hardware Interaction

The coding interface must allow for direct interaction with the player's unique, upgradable hardware.

Feature	Command Syntax	Description	Utility and Skill Check
Thread Control (High	thread spawn	Allows a player to run	Teaches
Level)	\$module_name	multiple script	Multi-threading and
		processes in parallel	Concurrency. Critical
		(limited by CPU cores).	for running a
			simultaneous attack
			and defense.
Hardware Overclock	vc cpu overclock [level]	Temporarily boosts	A risk/reward mechanic
		CPU/RAM performance	that simulates pushing
		(but increases the risk	hardware limits.
		of a hardware burnout	
		or detection by	
		opponents).	
Custom I/O	\$nic.raw send \$data	Allows high-level	Simulates low-level
		players to bypass	networking and
		high-level	bypassing
		Service_Objects and	application-layer
		send raw data packets.	security.