#### DeepWiki emanavas/PadelFlow

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# **Debugging Setup**

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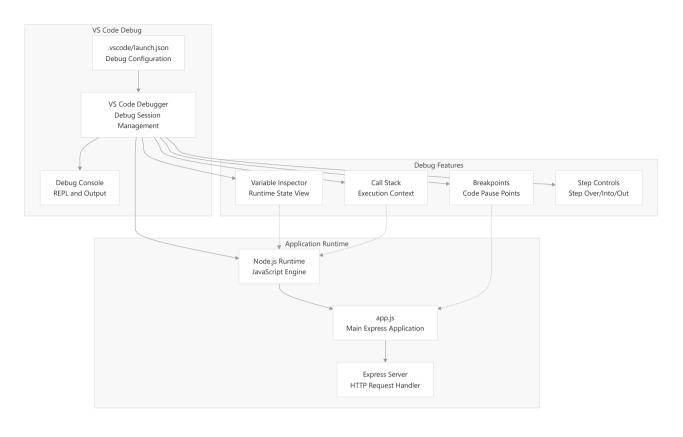
This document details the Node.js debugging configuration for PadelFlow, explaining how to set up and use the VS Code debugging environment to troubleshoot and develop the application. This covers the launch configuration, debugging workflow, and integration with the main Express application.

For information about the broader VS Code workspace configuration, see <u>IDE Configuration</u>. For details about the main application structure being debugged, see <u>Server Setup</u> and <u>Configuration</u>.

#### **VS Code Debug Configuration Overview**

PadelFlow includes a preconfigured debugging setup through VS Code's launch configuration system. The debugging environment is designed to launch and attach to the main Express application, providing full debugging capabilities including breakpoints, variable inspection, and step-through debugging.

# **Launch Configuration Structure**



Sources: O .vscode/launch.json 1-17

# **Debug Configuration Details**

The launch configuration is defined as a standard Node.js debugging setup:

Configuration Property	Value	Purpose
type	"node"	Specifies Node.js debugging
request	"launch"	Launches new process instead of attaching

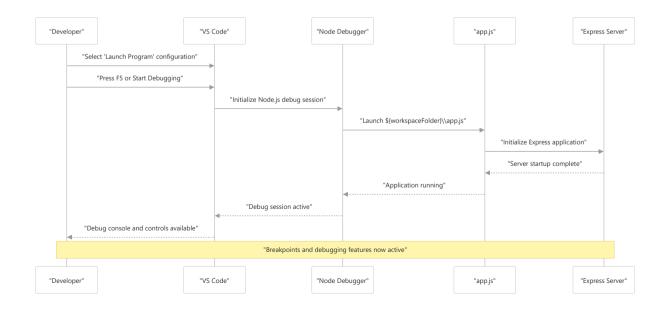
Configuration Property	Value	Purpose
name	"Launch Program"	Display name in VS Code debug menu
skipFiles	[" <node_internals>/**"]</node_internals>	Excludes Node.js internal files from debugging
program	"\${workspaceFolder}\\app.js"	Entry point for the application

The configuration targets the main application entry point at app.js in the workspace root, which serves as the Express server initialization file.

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# **Debugging Workflow**

# **Starting a Debug Session**



The debugging process begins by launching the main app.js file through the Node.js runtime, establishing a debug connection that allows inspection of the entire Express application lifecycle.

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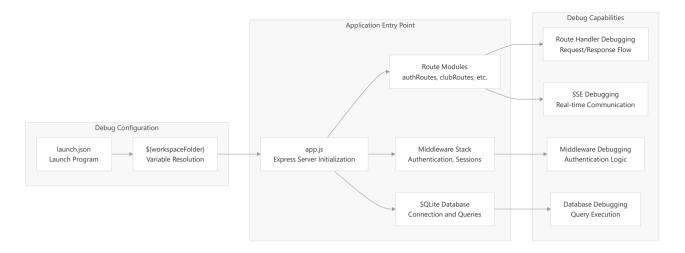
#### **Debug Session Components**

The debugging environment provides several integrated components for development:

- Breakpoint Management: Set breakpoints directly in source files to pause execution
- Variable Inspection: Examine runtime values, object properties, and application state
- Call Stack Navigation: View the execution path and navigate between function calls
- Debug Console: Interactive REPL for evaluating expressions and running commands
- Step Controls: Control execution flow with step over, step into, and step out operations

# **Integration with Application Architecture**

**Debug Target Mapping** 



The debug configuration enables comprehensive debugging across all application layers, from HTTP request handling through database operations and real-time communications.

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# **Debug Environment Features**

#### Node.js Internal Filtering

The configuration includes skipFiles settings to exclude Node.js internal modules from the debugging session. This focuses the debugging experience on application code rather than Node.js runtime internals:

```
"skipFiles": [
    "<node_internals>/**"
]
```

This filtering improves debugging performance and reduces noise during step-through debugging by automatically stepping over Node.js core module code.

#### **Workspace Integration**

The debug configuration uses VS Code's workspace variable system with \${workspaceFolder}\\app.js to ensure the correct application entry point is launched regardless of the workspace location. This provides portability across different development environments and file system structures.

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# **Usage Instructions**

#### **Setting Up Debugging**

- 1. Open VS Code: Ensure the PadelFlow workspace is loaded
- 2. Access Debug View: Use ctrl+Shift+D or click the Debug icon in the Activity Bar
- 3. Select Configuration: Choose "Launch Program" from the configuration dropdown
- 4. Set Breakpoints: Click in the gutter next to line numbers to set breakpoints
- 5. Start Debugging: Press F5 or click the green play button

# **Common Debugging Scenarios**

Debugging Task	Recommended Approach
Route Handler Issues	Set breakpoints in route files, inspect req and res objects
Authentication Problems	Debug middleware stack, examine session data

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Debugging Task	Recommended Approach	
Database Query Issues	Step through database operations, inspect query parameters	
Real-time Feature Problems Debug SSE handlers, monitor event emission		
Server Startup Issues	Place breakpoints in app.js initialization code	

The debugging setup integrates seamlessly with the broader PadelFlow development environment, providing comprehensive visibility into the Express application's runtime behavior.

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