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Development Environment

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This document covers the comprehensive development environment setup for the IronHack Course 2 monorepo, including Docker containerization, VS Code configuration, and workspace management. The development environment is designed to support all three projects (Proy1, Proy2_Cursos, and Proy3_Pedidos) within a unified workspace while maintaining individual project configurations.



For project-specific setup instructions and running individual applications, see [Getting Started](#). For VS Code debugging and workspace configuration details, see [VS Code & Debugging](#). For npm workspace dependency coordination, see [Dependency Management](#).

DevContainer Architecture

The repository provides a Docker-based development environment using Visual Studio Code DevContainers, ensuring consistent development setup across different machines and operating systems.

Container Infrastructure Overview



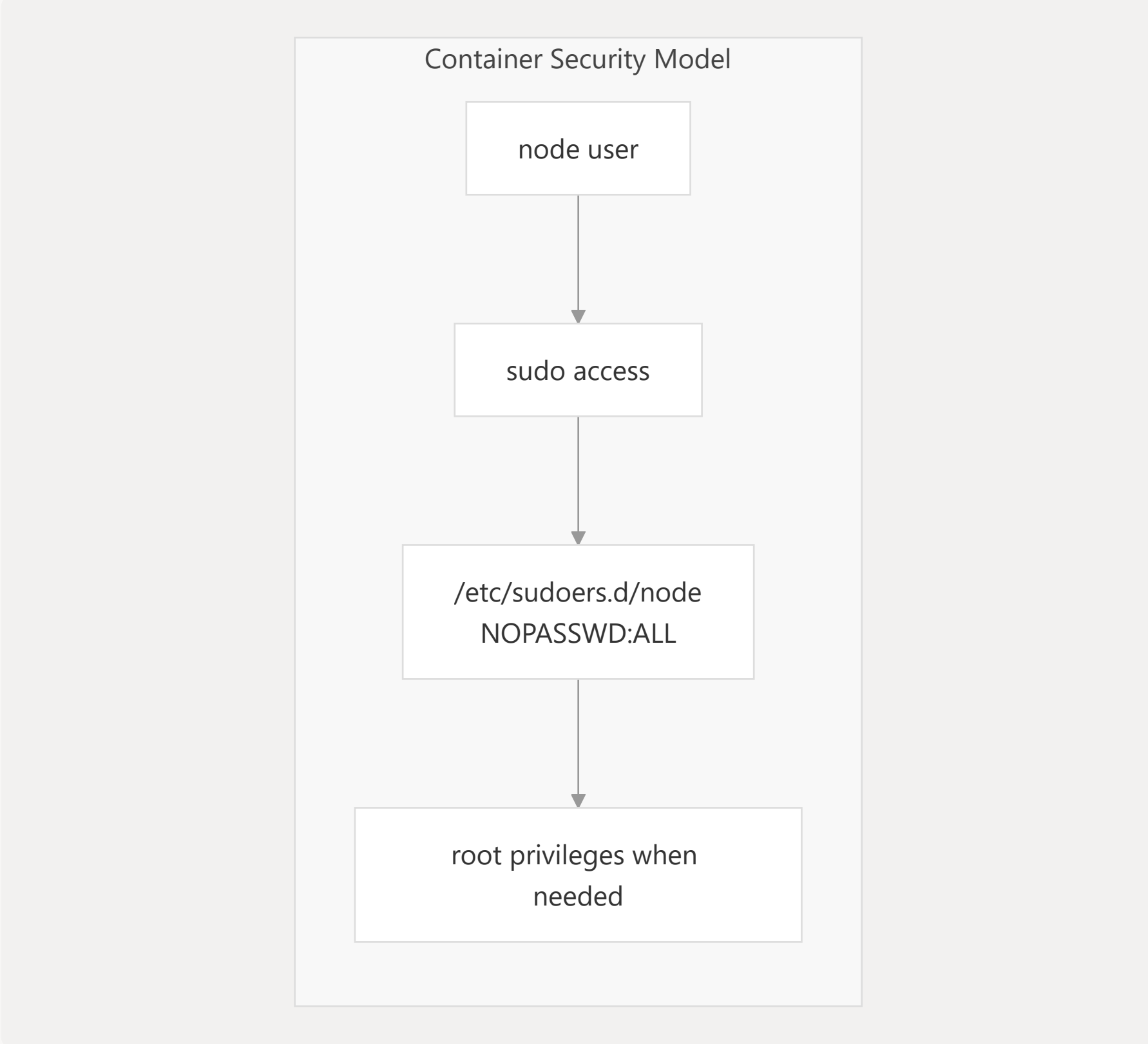
Sources:  .devcontainer/devcontainer.json 1-8  .devcontainer/Dockerfile 1-13


Docker Configuration Details

The DevContainer is built on `node:20` base image with essential development tools and proper user permissions configured for seamless development experience.

Component	Configuration	Purpose
Base Image	<code>node:20</code>	Latest stable Node.js runtime
Dev Tools	<code>less</code> , <code>man-db</code> , <code>sudo</code>	Command-line utilities for development
User Setup	<code>node</code> user with <code>NOPASSWD:ALL</code> <code>sudo</code>	Secure container access without password prompts
Environment	<code>DEVCONTAINER=true</code>	Environment detection for development-specific configurations

The container configuration ensures that the `node` user has appropriate permissions while maintaining security:

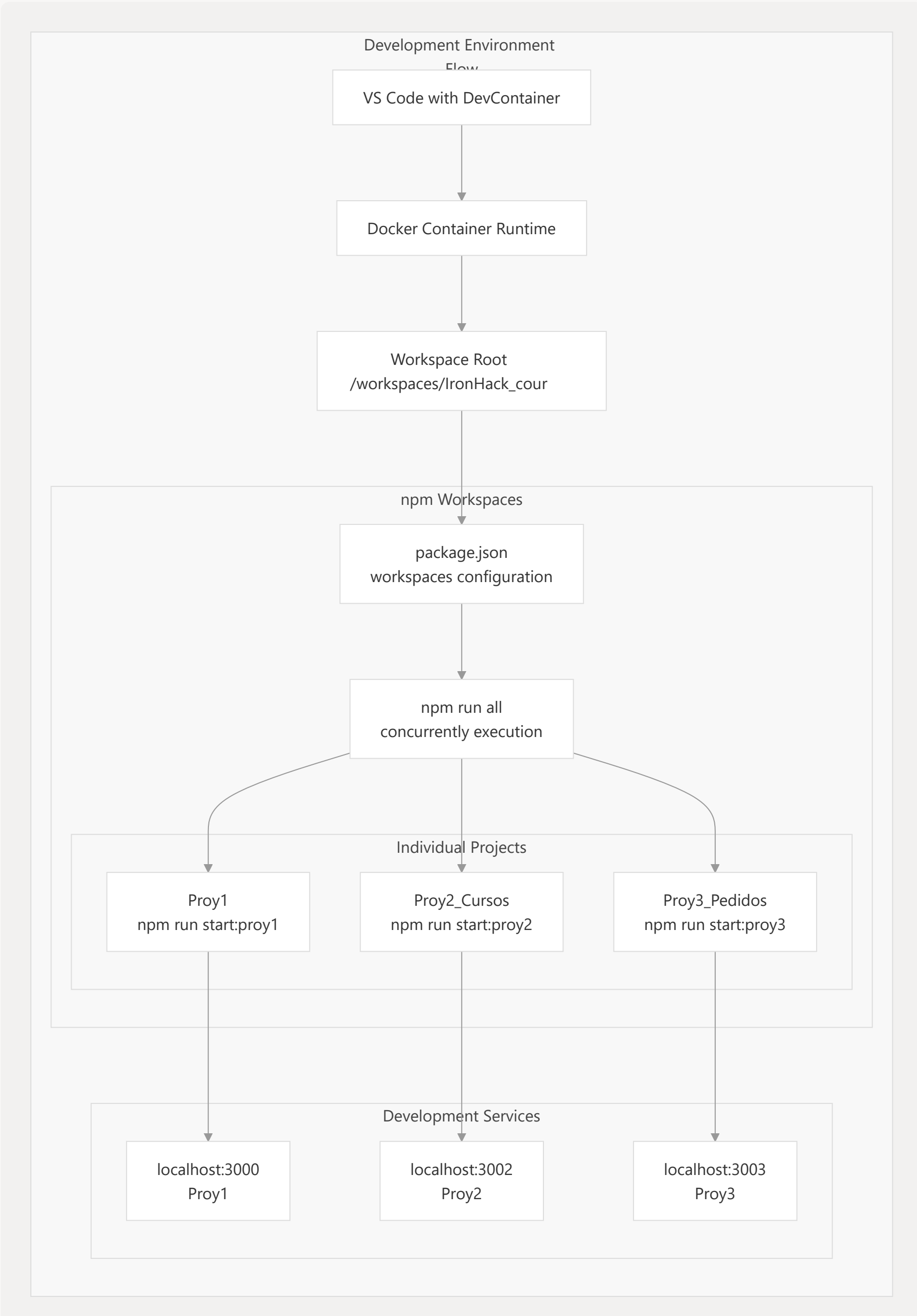


Sources:  .devcontainer/Dockerfile 6-9

Workspace Structure Integration

The development environment integrates with the npm workspaces structure to provide unified dependency management and project execution capabilities.

Development Workflow Integration



Sources:  .devcontainer/devcontainer.json 3  .devcontainer/Dockerfile 11-12

Environment Variables and Configuration

The development environment supports environment-specific configurations through the `DEVCONTAINER` environment variable, which can be used by applications to detect containerized development environments.

Container Environment Detection

The development environment sets `DEVCONTAINER=true` to enable development-specific behaviors:

Environment Variable	Value	Usage
<code>DEVCONTAINER</code>	<code>true</code>	Indicates running in development container
<code>NODE_ENV</code>	(inherited/configurable)	Node.js environment mode
<code>USERNAME</code>	<code>node</code>	Container user for development

This environment detection allows applications to:

- Enable development-specific logging
- Use different database configurations for development
- Activate hot-reloading and debugging features
- Configure different security settings for development

Sources:  .devcontainer/Dockerfile 11-12  .devcontainer/Dockerfile 7-9