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Development Environment

VS Code & Debugging

Dependency Management

Overview

> Relevant source files

Purpose and Scope

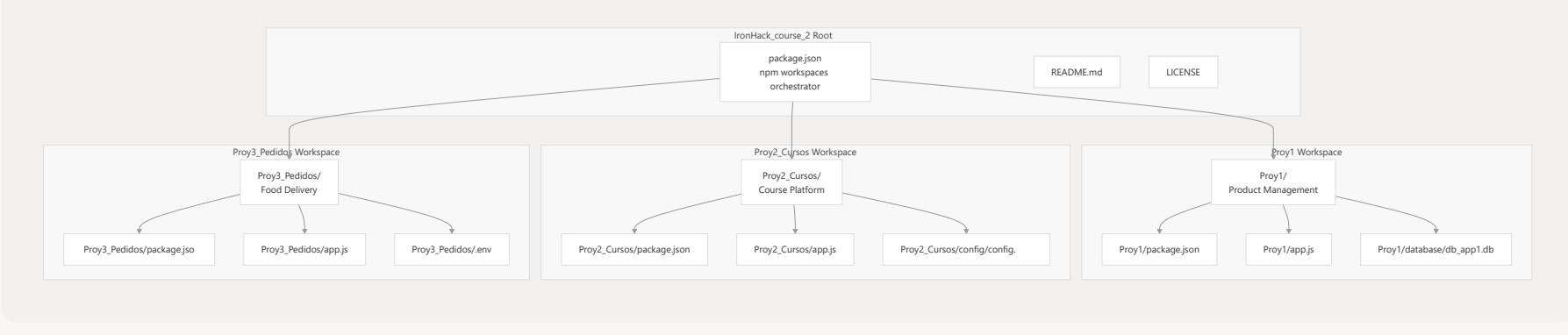
This document provides a high-level introduction to the IronHack Course 2 monorepo, which contains three progressive web applications designed as a learning environment for web development concepts. The repository demonstrates the evolution from basic CRUD operations to complex multi-role business applications using modern Node.js technologies.



This overview covers the monorepo structure, technology choices, and relationships between projects. For detailed information about individual projects, see [Project 1: Product Management](#), [Project 2: Course Platform](#), and [Project 3: Food Delivery Platform](#). For development environment setup, see [Development Environment](#).

Monorepo Architecture

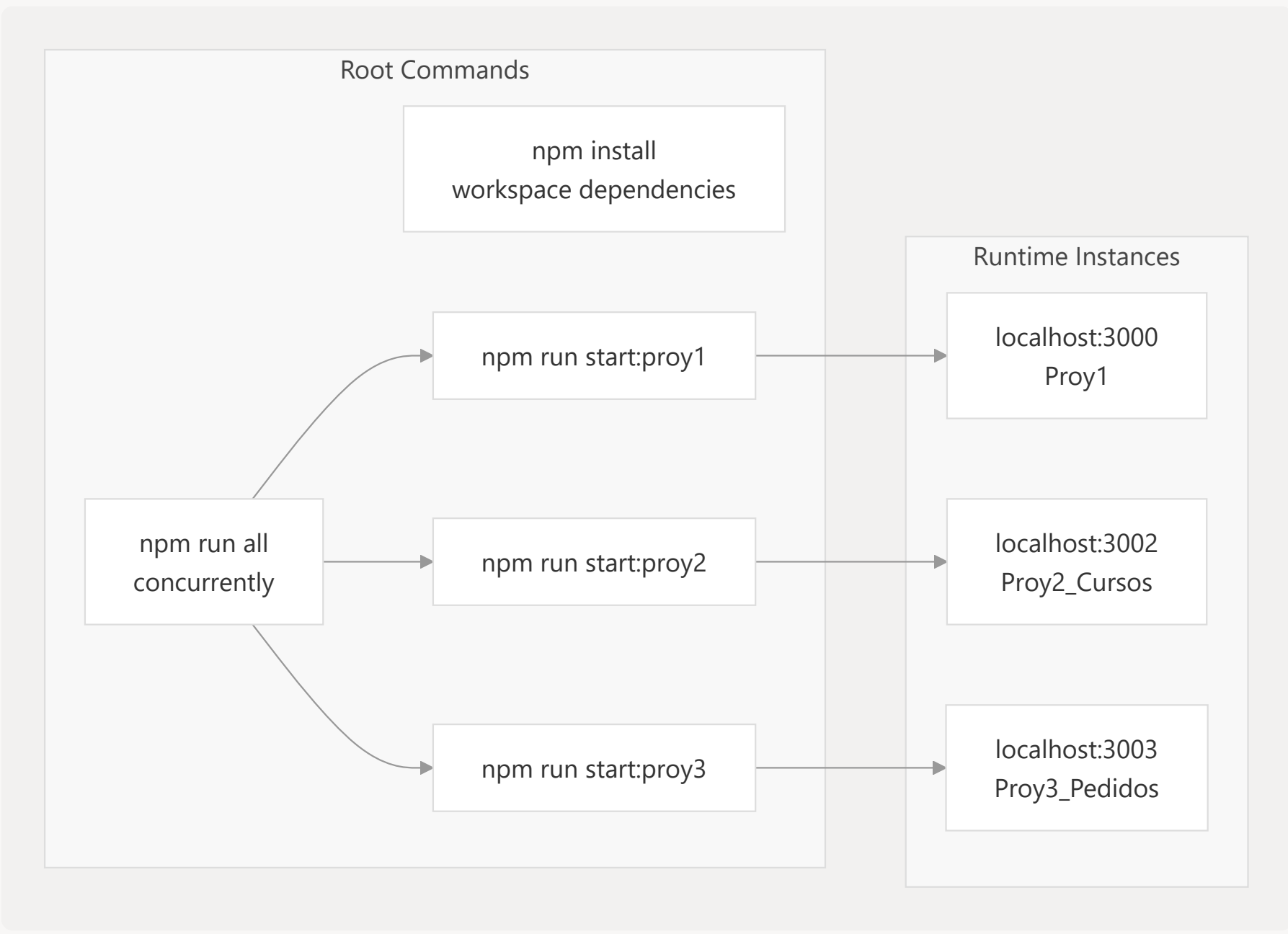
The repository uses npm workspaces to manage three independent Node.js applications within a single codebase. Each project demonstrates progressively more sophisticated web development patterns.


Repository Structure



Sources:  README.md 1-57  package.json  Proy1/package.json  Proy2_Cursos/package.json  Proy3_Pedidos/package.json

Execution Commands and Port Configuration



Sources:  README.md 18-56  package.json

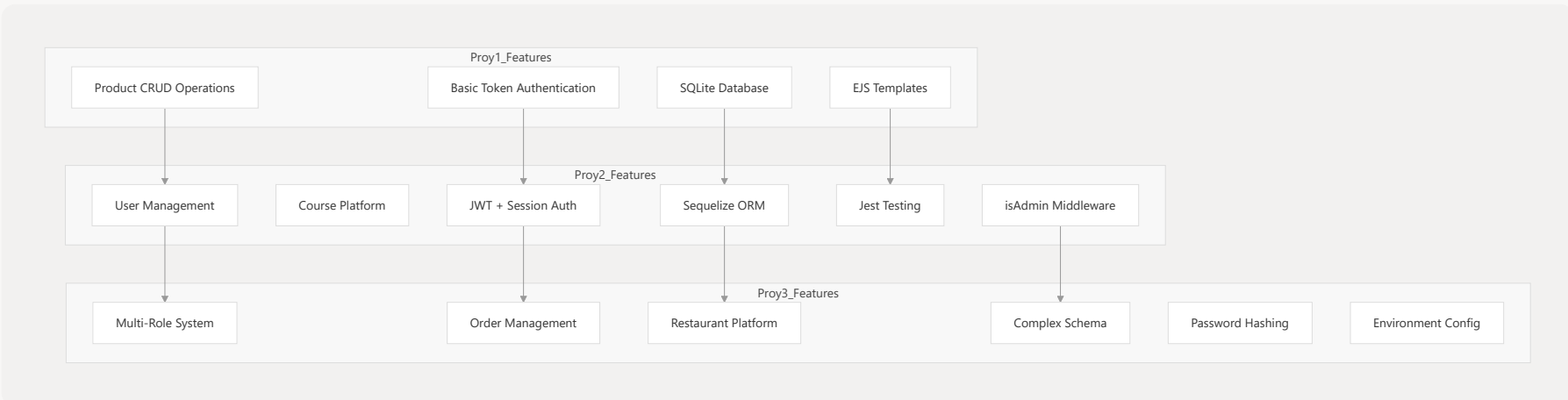
Technology Stack Progression







Each project demonstrates increasing complexity in technology choices and architectural patterns, serving as a learning progression for web development concepts.

Technology Matrix

Component	Proy1	Proy2_Cursos	Proy3_Pedidos
Runtime	Node.js	Node.js	Node.js
Framework	Express.js	Express.js	Express.js
Database	SQLite (db_app1.db)	MySQL + Sequelize ORM	MySQL + Sequelize ORM
Authentication	Token-based (TOKEN_SECRET)	JWT + express-session	Multi-role + bcrypt
Templates	EJS	EJS + connect-flash	EJS
Validation	express-validator	express-validator	express-validator
Testing	None	Jest	None
Environment	Basic config	Session management	.env + complex config

Application Complexity Comparison



Sources:  Proy1/app.js  Proy2_Cursos/app.js  Proy3_Pedidos/app.js  Proy1/package.json  Proy2_Cursos/package.json  Proy3_Pedidos/package.json

Project Learning Progression

The three projects are designed to build upon each other, introducing new concepts and technologies progressively:

Proy1: Foundational CRUD Operations

- **Purpose:** Basic product management system
- **Key Learning:** Express.js routing, SQLite database operations, basic authentication
- **Entry Point:** `Proy1/app.js`
- **Database:** `Proy1/database/db_app1.db`

Proy2_Cursos: Intermediate Platform Development

- **Purpose:** Course management platform with user relationships
- **Key Learning:** ORM usage, session management, testing, admin roles
- **Entry Point:** `Proy2_Cursos/app.js`
- **Configuration:** `Proy2_Cursos/config/config.json`

Proy3_Pedidos: Complex Business Application

- **Purpose:** Food delivery platform with multi-stakeholder workflows
- **Key Learning:** Complex data modeling, multi-role authentication, environment management
- **Entry Point:** `Proy3_Pedidos/app.js`
- **Environment:** `Proy3_Pedidos/.env`

Quick Start

The monorepo provides unified commands for development workflow:

```
# Install all workspace dependencies
npm install

# Run all projects concurrently
npm run all

# Run individual projects
npm run start:proy1 # Available at http://localhost:3000
npm run start:proy2 # Available at http://localhost:3002
npm run start:proy3 # Available at http://localhost:3003
```

Sources:  README.md 10-56

Development Environment

The repository includes comprehensive development tooling:

- **Container Support:** `.devcontainer/` configuration for Docker development
- **VS Code Integration:** Workspace configuration and debugging setup
- **Version Control:** `.gitignore` and `LICENSE` (Apache 2.0) configuration
- **Dependency Management:** npm workspaces for coordinated package management

For detailed development setup, see [Development Environment](#) and [VS Code & Debugging](#).

Sources:  LICENSE 1-202  .devcontainer/  .gitignore