Last indexed: 11 August 2025 (172577)

Overview

Repository Structure

Getting Started

Project 1: Product Management (Proy1)

Database & Configuration

Product Management System

Development Environment

Project 2: Course Platform (Proy2_Cursos)

Data Models & Database

Authentication & Middleware

Development & Testing

Project 3: Food Delivery Platform (Proy3_Pedidos)

Architecture & Dependencies

Database Models & Schema

Environment & Configuration

VS Code & Debugging

Development Environment

Dependency Management

Project 2: Course Platform (Proy2_Cursos)

> Relevant source files

Purpose and Scope

This document covers Project 2 within the IronHack Course 2 monorepo - a course management platform built with Express.js and MySQL. The system implements user authentication, session management, and course administration features. It represents an intermediate-level web application that builds upon basic CRUD concepts while introducing ORM usage and advanced authentication patterns.

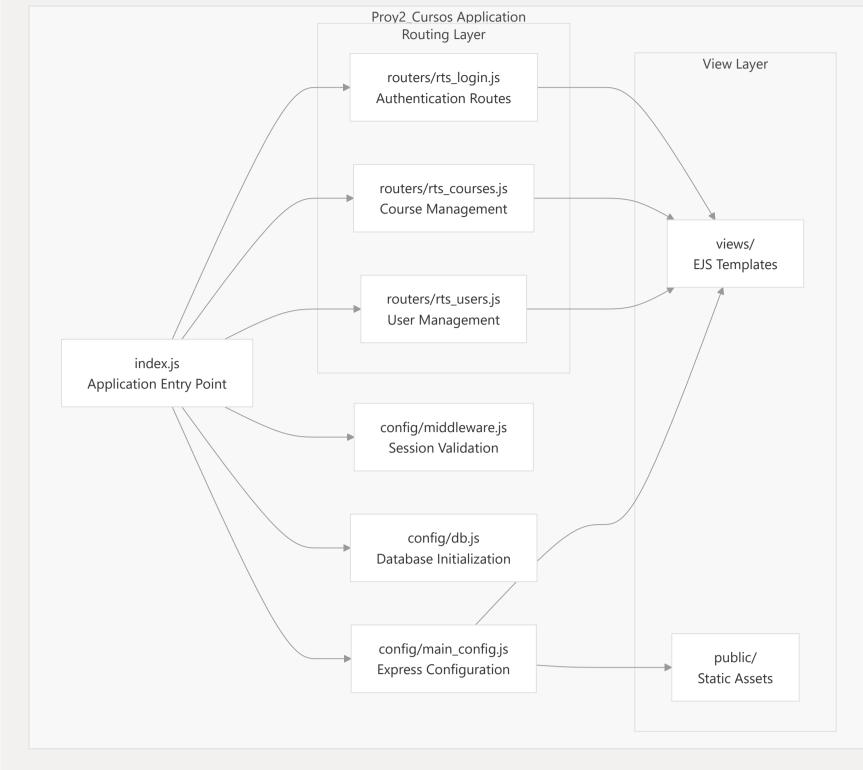
For information about the overall repository structure and development environment, see **Overview**. For details about the database models and ORM configuration, see <u>Data Models & Database</u>. For authentication implementation details, see Authentication & Middleware.

The course platform follows a traditional MVC architecture pattern with Express.js as the web

System Architecture Overview

framework, EJS for templating, and session-based authentication with JWT tokens.

Application Structure



Core Configuration

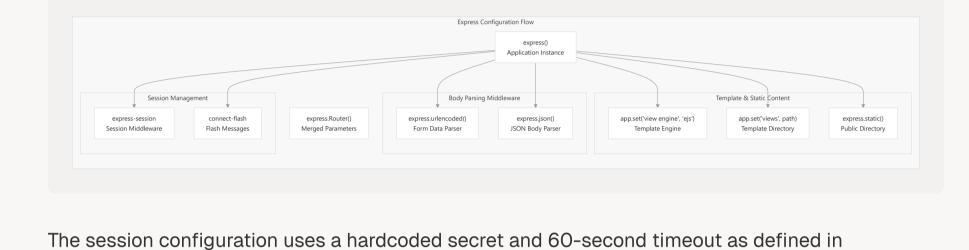
Proy2_Cursos/config/main_config.js 1-26

The application configuration is centralized in main_config.js which sets up the Express

Express Application Setup

Sources: Proy2_Cursos/index.js 1-21

application with essential middleware and templating engine.



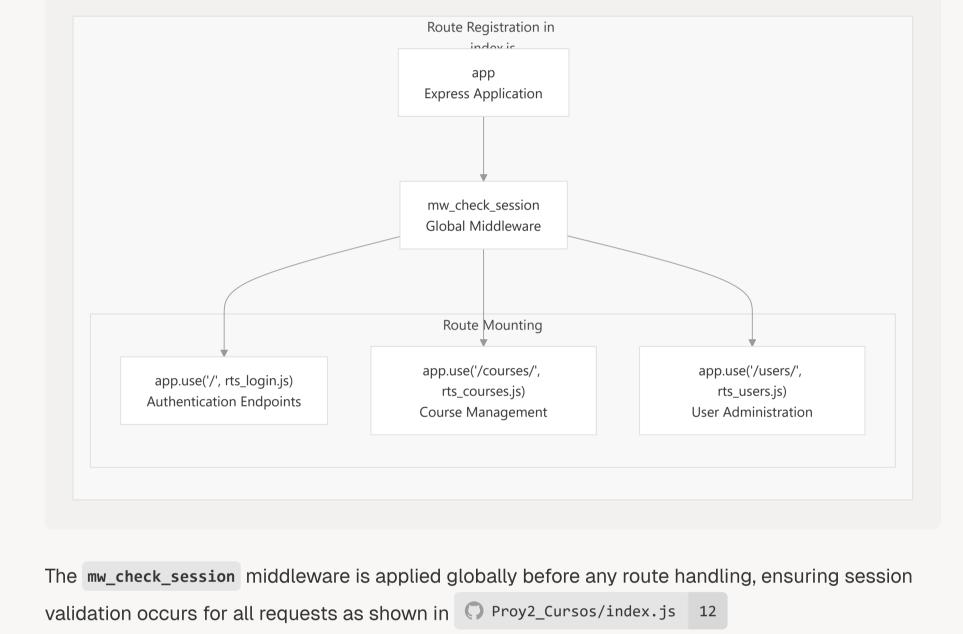
Sources: Proy2_Cursos/config/main_config.js 6-24

The application implements a modular routing system where each functional area has its own

Routing Architecture

Proy2_Cursos/config/main_config.js 22

router module. **Route Registration Flow**



Sources: Proy2_Cursos/index.js 12-18

The application uses a layered approach to session management and request processing.

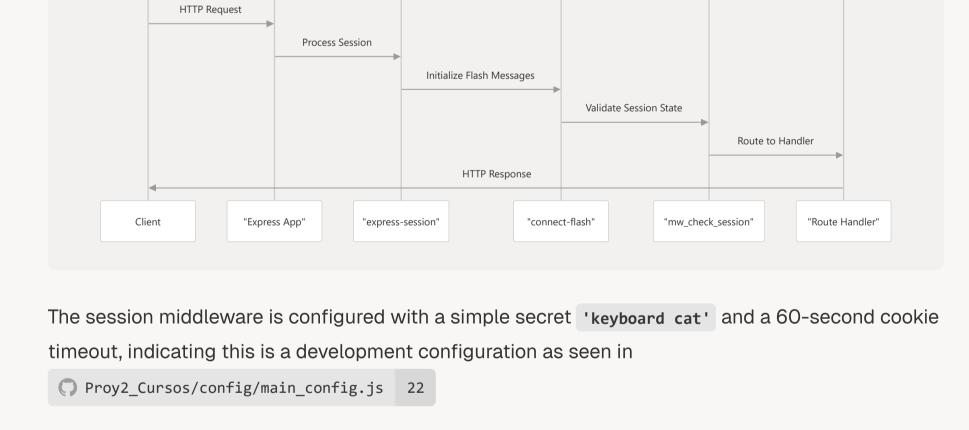
"express-session"

Middleware Processing Chain

"Express App"

Client

Session and Middleware Integration



"connect-flash"

"mw_check_session"

Proy2_Cursos/config/main_config.js 22

"Route Handler"

Proy2_Cursos/index.js 6 Proy2_Cursos/index.js 12

The application follows a modular export pattern that enables clean separation of concerns and

Purpose

Main Express instance with configured middleware

Proy2_Cursos/index.js 5

Router instance with merged parameters

Configuration Module Exports

Express Application

Sources: Proy2_Cursos/config/main_config.js 25

module that is required during application startup.

Express Router

dependency injection.

Type

Export

router

app

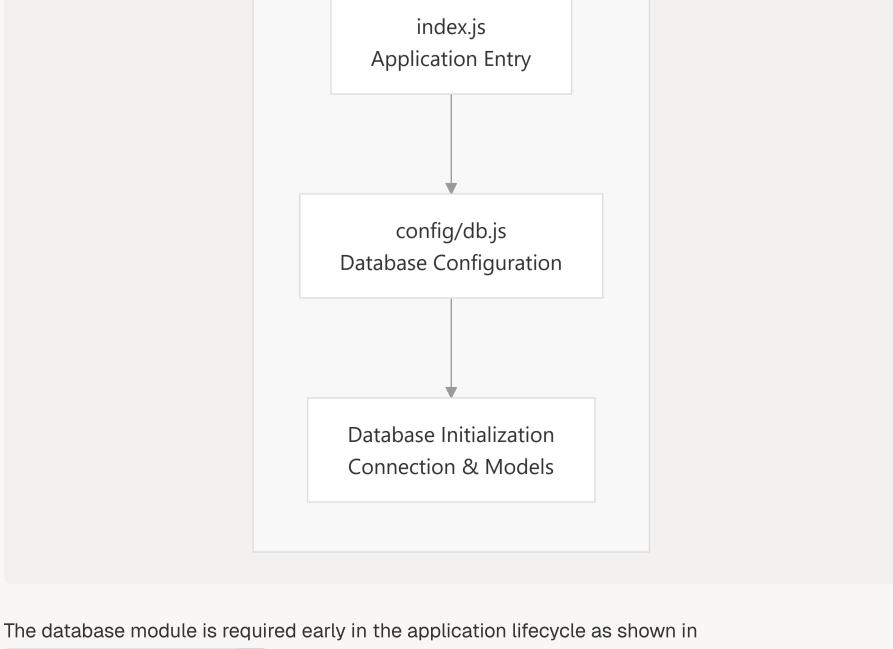
Module Dependencies and Exports

Sources: Proy2_Cursos/config/main_config.js 14

session	Session Modu	ıle	Express-session module reference
The main application entry point imports the configured Express app and router from the config			
module, then applies global middleware and mounts route handlers as shown in			
Proy2_C	ursos/index.js	5	

Database Integration The application initializes database connectivity through a dedicated database configuration

Database Initialization Flow



Database Setup

© Proy2_Cursos/index.js 9 ensuring database connectivity is established before route handling

Sources: Proy2_Cursos/index.js 9

begins.