

ERP System – Information Flow Diagram

This document visually explains how information flows through the ERP system, from user interaction to data storage and back.

Primary Request Flow

User / External System

|
| JSON Request
v

API Layer

|
v

Controller

|
v

Service

|
v

Entities

|
v

Tables

|
v

Schema

Supporting Components (Always Active)

Main Files -> Start and initialize the application

Config Files -> Control runtime settings and environments

Seed Files -> Provide initial reference data

Migrations -> Safely evolve database structure

Source Files -> Define all system behavior

Flow Explanation (Plain English)

Requests enter the system through APIs using JSON. Controllers receive and route these requests. Services apply business rules and decisions. Entities represent business data, which is stored in tables following rules defined by the schema. Responses travel back through the same path. Main files start the system, configuration files control behavior, seed files provide startup data, and migrations ensure safe structural changes over time.

Executive Takeaway

This layered flow isolates responsibilities, reduces operational risk, and allows the ERP system to scale and change without disrupting the business.