

Week 3 — Proxy Pattern & Database Intro

Apr 14 – Apr 18


What We're Covering

The proxy pattern on Day 1 – how your API can act as a middleman to external services (like TMDB). Day 2 introduces databases with PostgreSQL and Prisma ORM.

Readings


- [The Relational Model & Data Modeling](#)

Due This Week

 **Quiz 3 – Due: Sunday, April 19 at 11:59 PM**

[Canvas · Site](#)

Covers: The Relational Model & Data Modeling

 **Check-Off: Proxy API – Due: Sunday, April 19 at 11:59 PM**

[Canvas · Site](#)

Build an API that proxies data from an external source.

 **Sprint 1 – Due: Sunday, April 19 at 11:59 PM**

[Canvas · Site](#)

Express server, TMDB proxy routes, OpenAPI started.

What You Should Be Working On

- **Sprint 1** – get your group's Express server running with TMDB proxy routes and start OpenAPI documentation.
 - **Proxy API check-off** – individual work demonstrating the proxy pattern.
 - **Review the proxy pattern guide** – [The Proxy Pattern](#) walks through building proxy routes with the lecture demo's weather API.
 - **Review the middleware guide** – [Routing & Middleware](#) covers patterns you'll use in Sprint 1.
 - **Read the Week 3 reading** and take Quiz 3.
 - **AI Diary** – log your Week 3 entry.
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Learning Objectives & Course Outcomes

Syllabus Learning Objectives addressed this week:

- **L01:** Design and implement RESTful web APIs using a server-side framework
- **L02:** Model and access relational data using an ORM backed by a relational database
- **L06:** Transfer object-oriented programming skills to a new language and ecosystem

Course Outcomes:

- **Inquiry and Critical Thinking** – modes of inquiry, analysis, and critical synthesis
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Lecture Recaps

- [Tuesday](#)
- [Thursday](#) – Group meetings, no lecture