Web Application Architectures

Module 3: Database Interactions

Lecture 4: The Blog App - Iteration 2 (Associations)



Associations in Rails



Because we used the scaffold generator for the posts and comments in our blog application, the Active Record design pattern is "pre-wired." This means:

- A SQLite database able to store posts and comments was created when we ran the migrations.
- A connection to this database was established.
- The ORM for Post and Comment objects was set up the "M" in MVC.

However, there's one thing missing — we need to ensure that any comments entered for a particular post are permanently linked to that post.

Associations in Rails



- We did make the connection between posts and comments in the database — recall that a post_id can be stored with each comment.
- To make our models in Rails fully functional we need to add associations — each post needs to know the list of comments associated with it, and each comment needs to know which post it belongs to.
- There's a many-to-one relationship between comments and posts a post has many comments, and a comment belongs to a post:



Associations in Rails



- The ActiveRecord module contains a set of class methods for tying objects together through foreign keys.
- To enable these, you must declare associations within your models using the following:

	Model with no	Model with
Relationship	foreign key	foreign key
one-to-one	has_one	belongs_to
many-to-one	has_many	belongs_to
many-to-many	has_and_belongs_to_many	*

* The foreign keys for each model are stored in a join table.