

Concept	Meaning	Real-life Analogy
API	Interface for software to communicate	Waiter taking your order and bringing food
REST API	Uses HTTP methods to access resources	Ordering food using a fixed menu
MVC	Model-View-Controller architecture	Chef(Model), Waiter(Controller), Menu(View)
Database	Stores and manages data	Library with organized books
CRUD	Create, Read, Update, Delete operations	Managing a list of contacts on your phone
ORM	Maps database tables to code objects	Translator between two languages
HTTP	Protocol for web communication	Sending and receiving letters via post
Authentication	Verifies identity	Showing ID at an office gate
Authorization	Grants access based on identity	VIP access depending on your pass
Status Codes	Server response codes	Traffic lights indicating go, wait, or stop
SQL vs NoSQL	Relational vs Non-relational databases	Excel sheets vs folders with labeled files
Caching	Stores data temporarily for speed	Keeping snacks nearby instead of kitchen
WebSockets	Two-way communication protocol	Phone call vs letters
HTTPS	Secure HTTP with encryption	Sending locked mail with a password
Load Balancer	Distributes traffic across servers	Multiple cash counters at a supermarket
Rate Limiting	Restricts number of requests	Only 3 free samples per person
Middleware	Processes requests before reaching server	Security check at the airport
Version Control	Tracks code changes	Google Docs version history
File Storage	Stores images/files outside DB	Saving photos on Google Drive
Deployment	Putting code on a live server	Publishing a book to the public