Introduction to CRUD

What is CRUD

Create

Read

Update

Delete

Four primary operations for any persistent data resource
Not part of a specific language/protocol, but an abstract paradigm

Operation	SQL	HTTP
Create	INSERT	POST
Read	SELECT	GET
Update	UPDATE	PUT/PATCH
Delete	DELETE	DELETE

CRUD URL path conventions

HTTP Verb	Path	Used For
GET	/photos	Display list of photos
POST	/photos	Create a new photo
GET	/photos/:id	Display a specific photo
PATCH/PUT	/photos/:id	Update a specific photo
DELETE	/photos/:id	Delete a specific photo

photos may correspond to database table of same name

id is likely a primary key – ensures unique URL per photo

Backend uses provided HTTP verb to determine how to respond

CRUD URL path conventions

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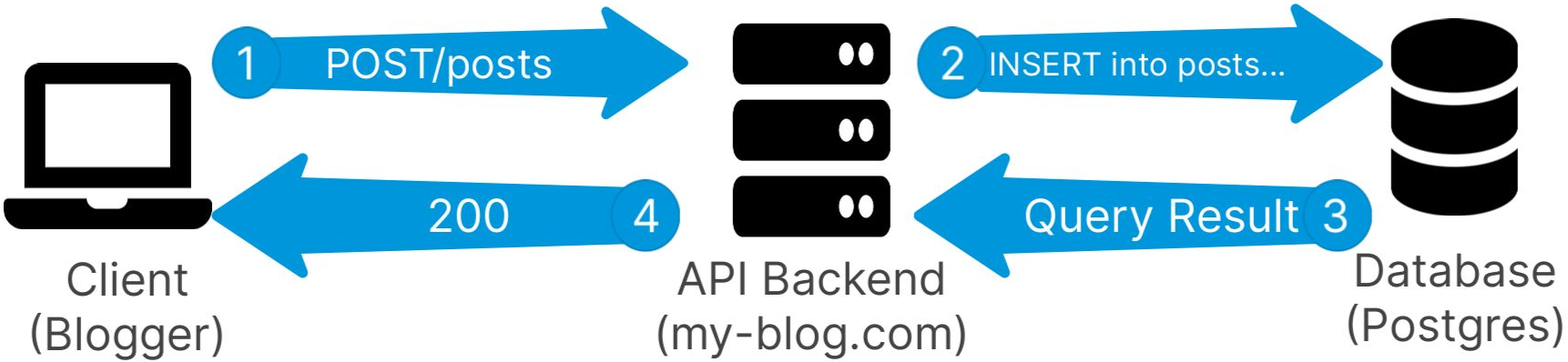
PATCH/PUT	/photos/:id	Update a specific photo
DELETE	/photos/:id	Delete a specific photo
GET	/photos/new	Return HTML form for creating a new photo
GET	/photos/:id/edit	Return HTML form for editing a photo

CRUD Example

"A blogger may CRUD blog posts"

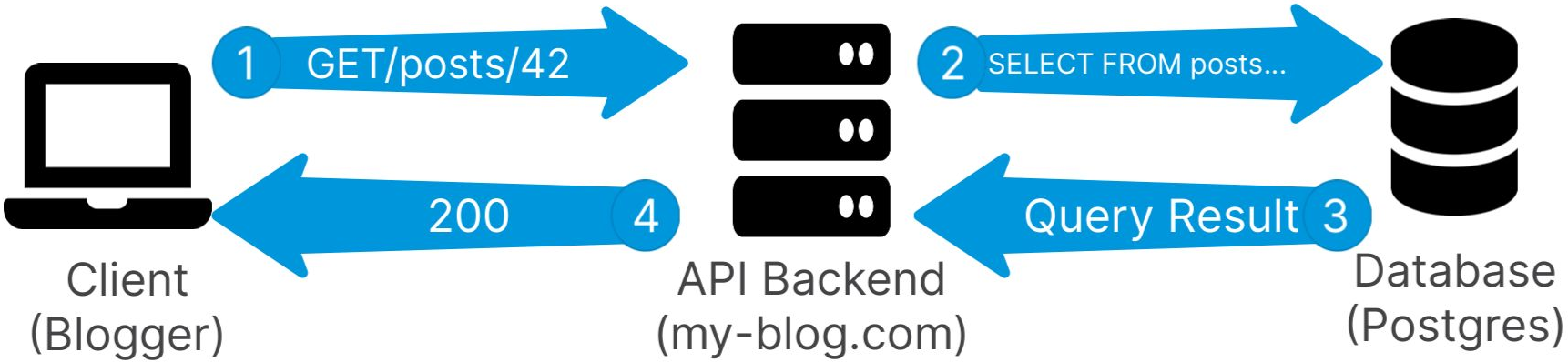
CRUD create example

"A blogger may CRUD blog posts"



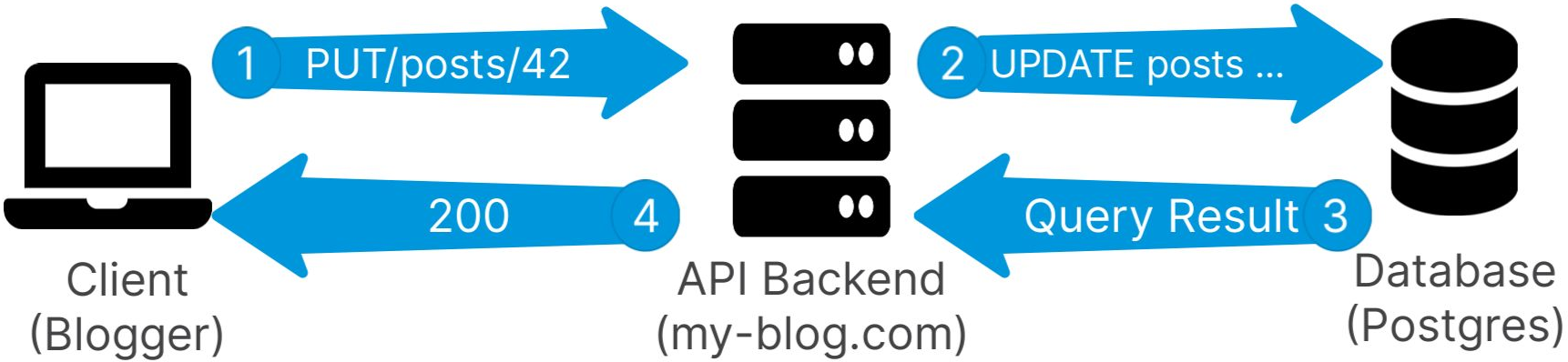
CRUD read example

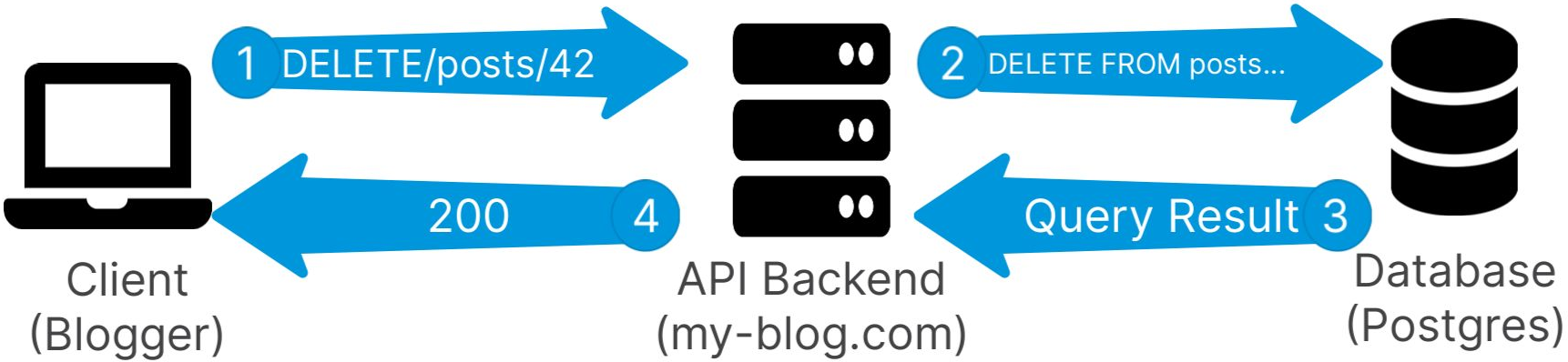
"A blogger may CRUD blog posts"



CRUD update example

"A blogger may CRUD blog posts"



CRUD delete example

"A blogger may CRUD blog posts"