

Module 2

Week 1 | Day 3 | **Bounded Contexts & REST APIs**

Sooo...what's on the agenda...



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- Three Different Examples of Bounded Contexts

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- Three Different Examples of Bounded Contexts
- Building a Simple Restful API

Question(s) of the Day.....

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- What are the larger responsibilities of an application?
- Who need full access to a kind of data?
- What data is shared (through VOs)?

Every Bounded Context is a microservice.

Every microservice contains the databases, models and apis we need to support the Bounded Context.

Getting some **REST**

All data exchange happens
through requests.

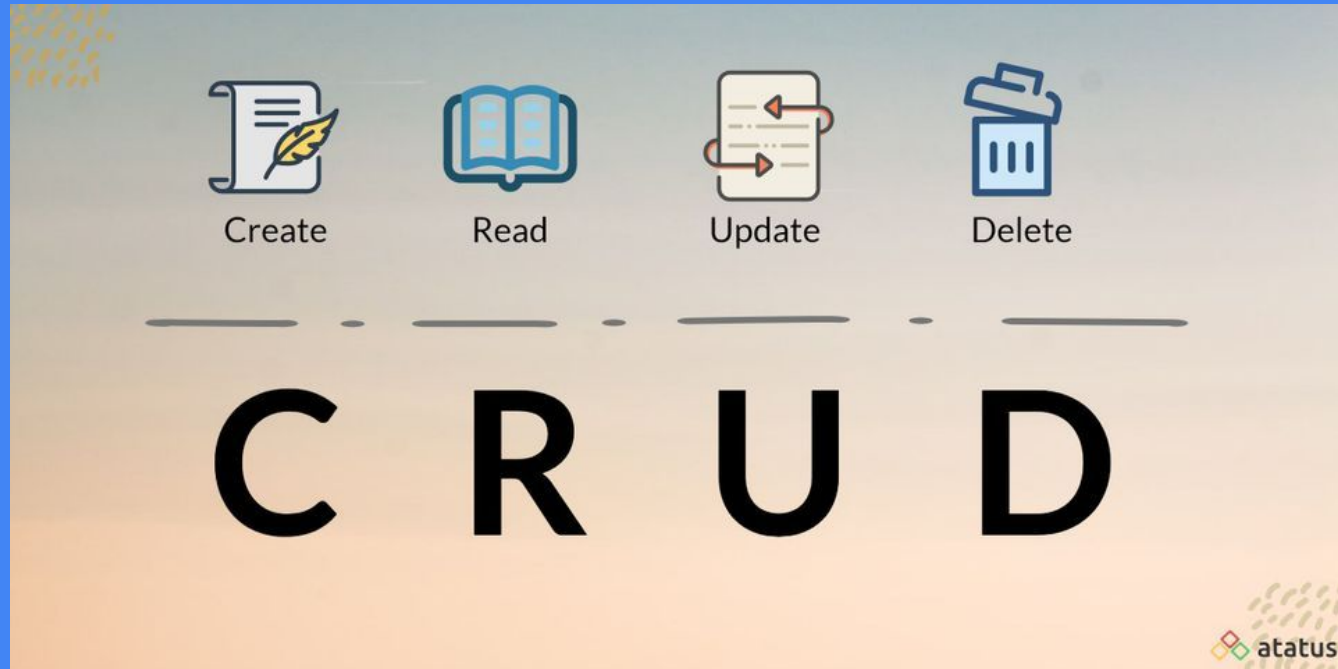


Each Request has access to:

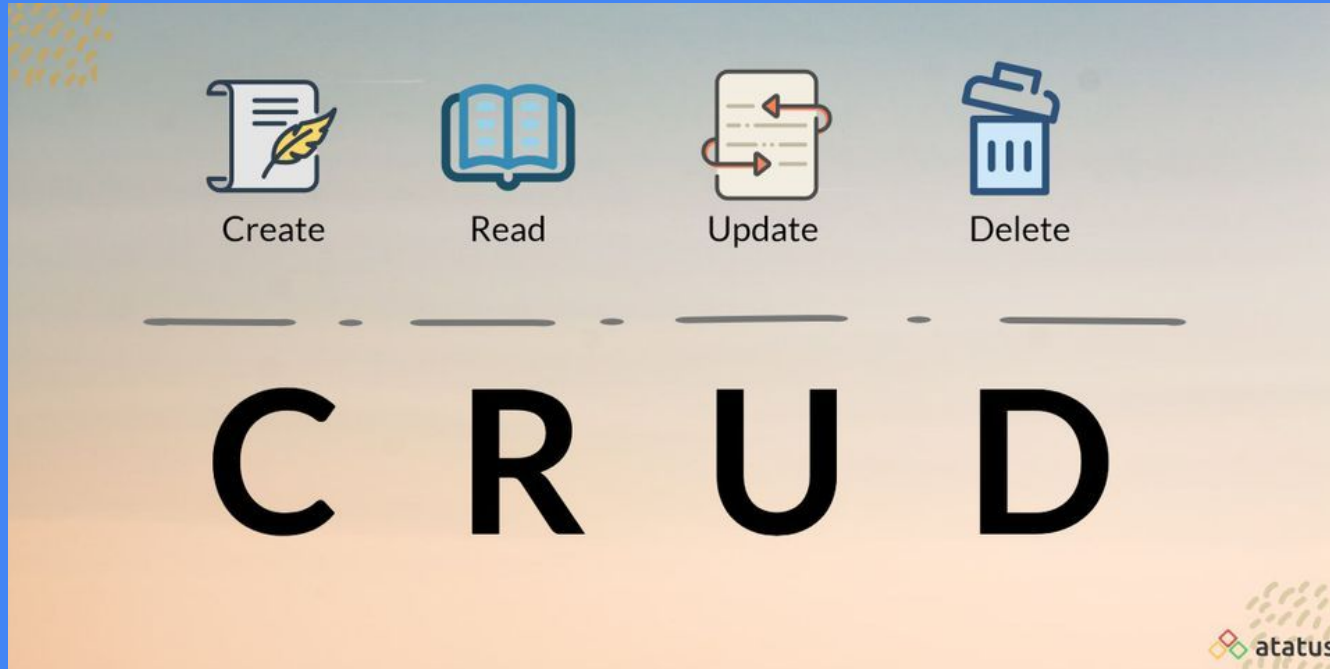
- A URL Path (with optional url parameter)
- A HTTP Method [POST, GET, PUT, DELETE]
- An optional Body

What we need is **CRUD**:

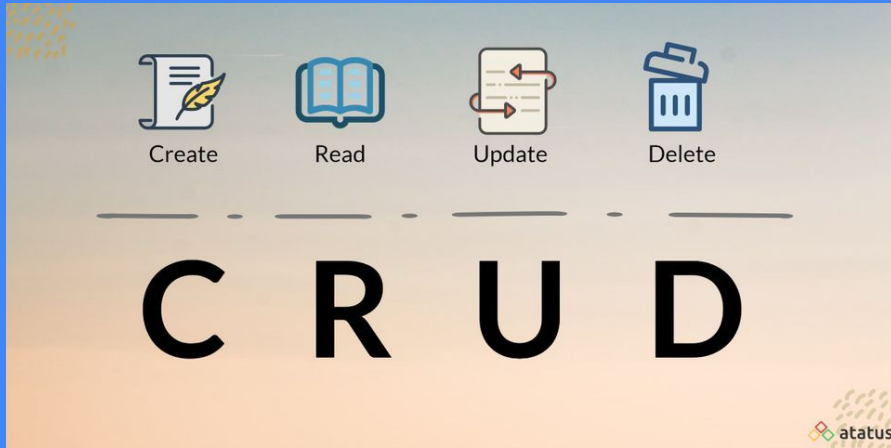
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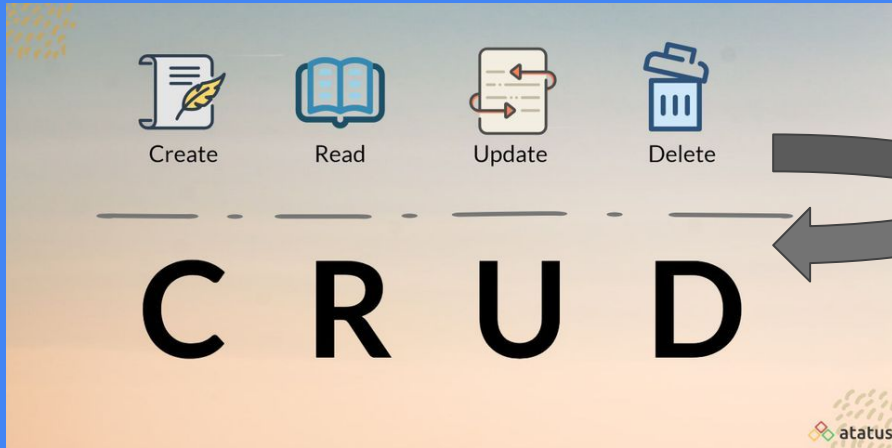
- Hotels
- Products
- Users
- **resource**



Each Request has access to:

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- A HTTP Verb [POST, GET, PUT, DELETE]
- An optional Body

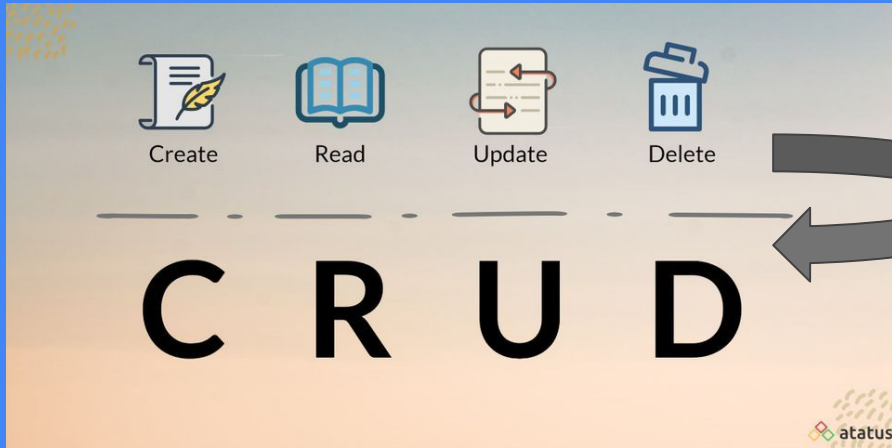
REST



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Representational State Transfer

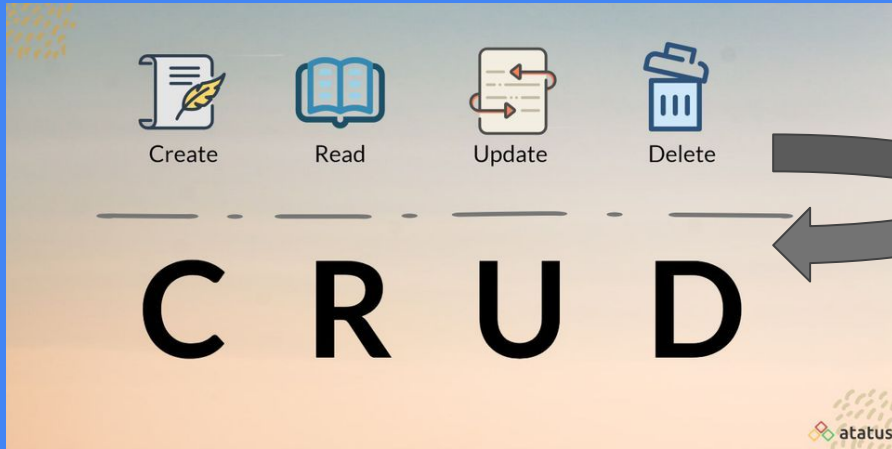


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(a consistent url structure for **CRUD** on a resource)



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(a consistent url structure for CRUD on a resource)

URL	HTTP Verb	POST Body	Result
/api/movies	GET	empty	Returns all movies
/api/movies	POST	JSON String	New movie Created
/api/movies/:id	GET	empty	Returns single movie
/api/movies/:id	PUT	JSON string	Updates an existing movie
/api/movies/:id	DELETE	empty	Deletes existing movie

Representational State Transfer

(a consistent url structure for CRUD on a resource)

Action Name	HTTP Verb	Path	Description
index	GET	/songs	Display a list of all the songs
show	GET	/songs/:id	Display an individual song
create	POST	/songs	Manipulate the database to create a new song
edit	GET	/songs/:id/edit	Show an HTML form to edit an existing song
update	PUT/ PATCH	/songs/:id	Manipulate the database to update the song
destroy	DELETE	/songs/:id	Manipulate the database to delete the song

Representational State Transfer

(a consistent url structure for CRUD on a resource)

Scenario	HTTP Method	URL Format
Add a customer	POST	/customers
Retrieve all customers	GET	/customers
Retrieve a specific customer	GET	/customers/{id}
Delete a customer	DELETE	/customers/{id}
Get all orders of a customer	GET	/customers/{id}/orders
Get specific order details of a customer	GET	/customers/{id}/orders/{id}
Get the address of a customer	GET	/customers/{id}/address
Edit details of a specific customer	PATCH	/customers/{id}

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- TEST TEST TEST!!!