Communication between Microservices
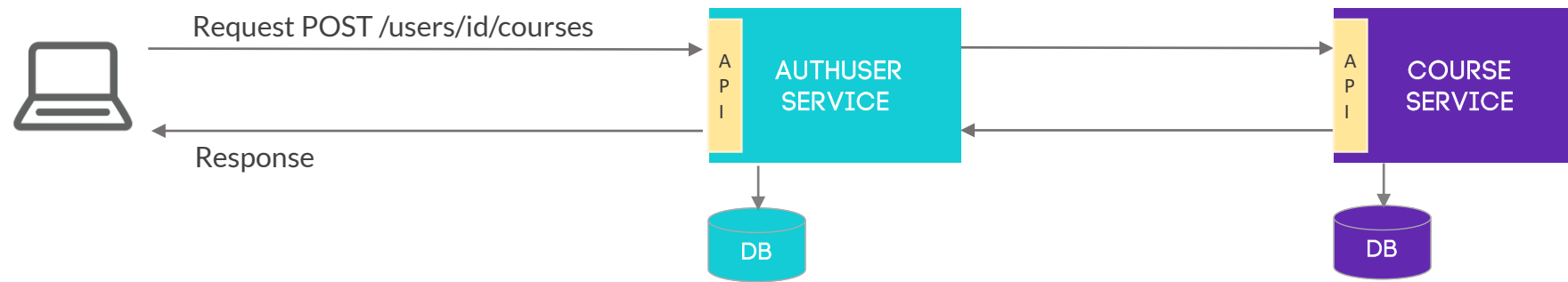
Styles of interactions between Microservices

	One-To-One	One-To-Many
Synchronous	Request/response	————
Asynchronous	Asynchronous Request/response One-way notifications	Publish/subscribe Publish/async responses

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Styles of interactions between Microservices

	One-To-One	One-To-Many
Synchronous	Request/response	———
Asynchronous	Asynchronous Request/response One-way notifications	Publish/subscribe Publish/async responses

Request/response via API REST

Styles of interactions between Microservices

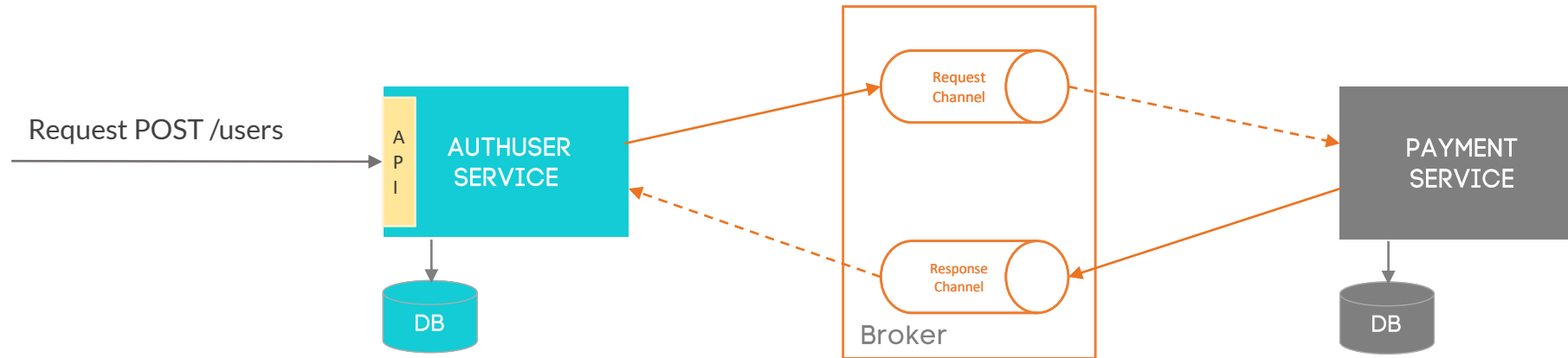|	One-To-One	One-To-Many
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Asynchronous Request/response via Message

Request POST /users

API

AUTHUSER
SERVICE

DB

Broker

Request
Channel

Response
Channel

PAYMENT
SERVICE

DB

Styles of interactions between Microservices

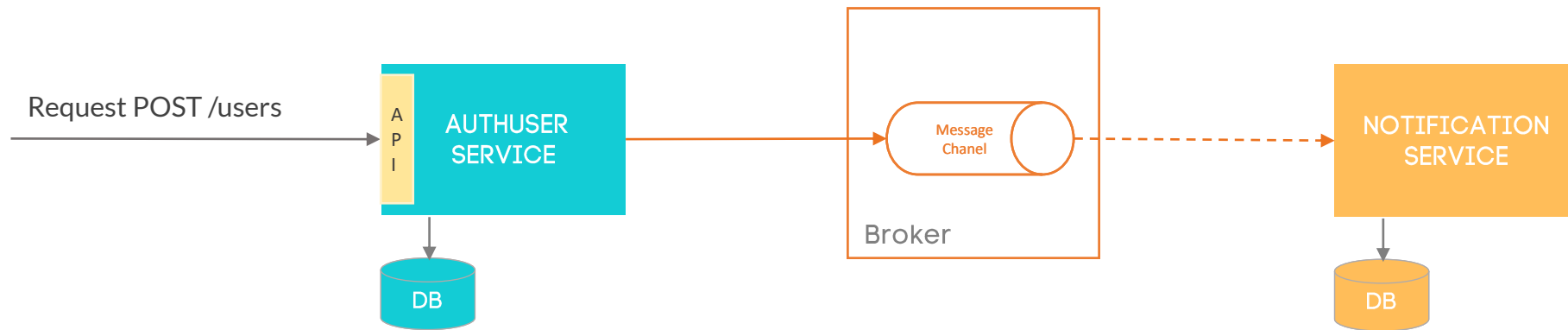|	One-To-One	One-To-Many
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One-way notifications via Message

Request POST /users → **API** | **AUTHUSER SERVICE** → **Broker** [Message Chanel] ⇢ **NOTIFICATION SERVICE**

AUTHUSER SERVICE → DB

NOTIFICATION SERVICE → DB

Styles of interactions between Microservices

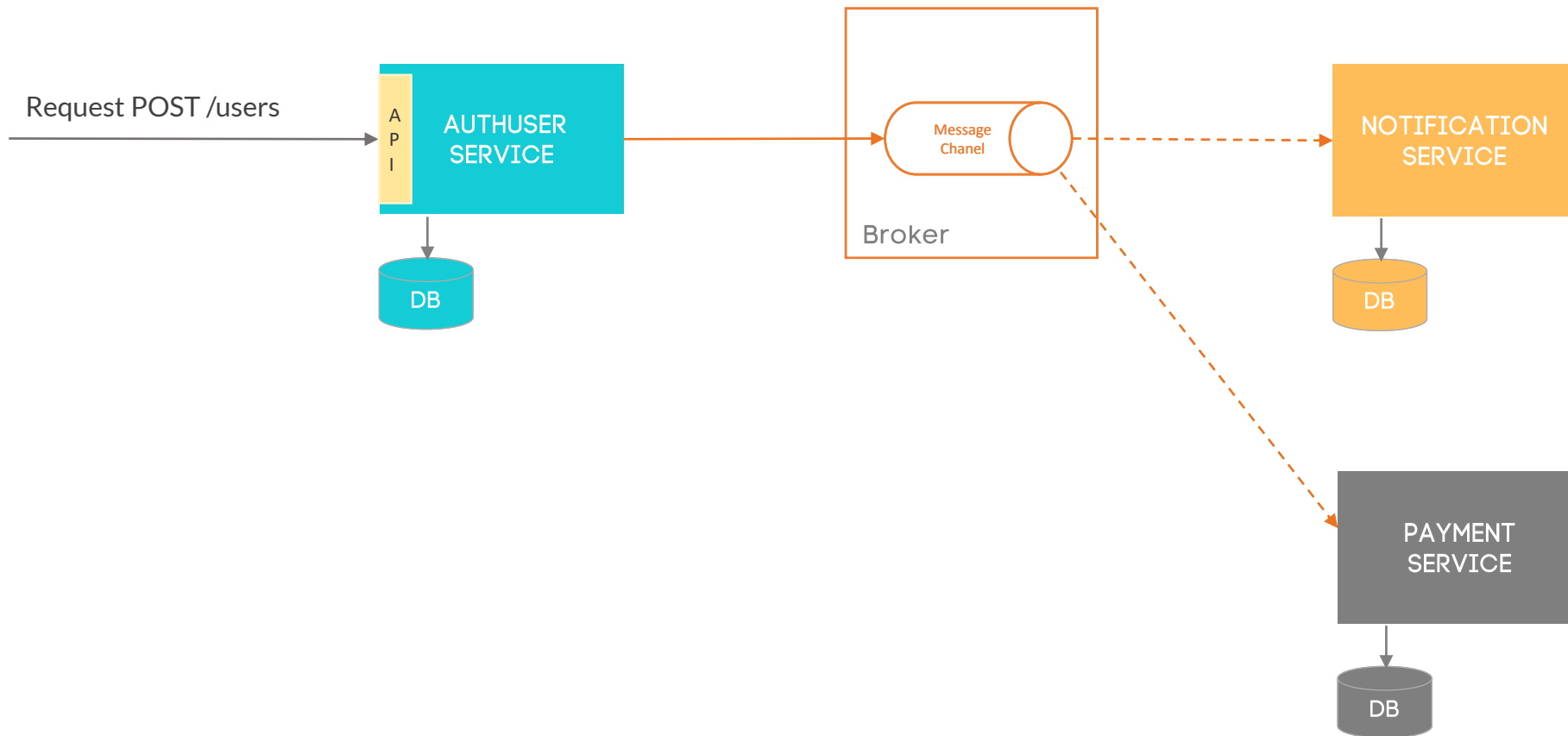|	One-To-One	One-To-Many
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Publish/subscribe via Message

Request POST /users

API | AUTHUSER SERVICE

DB

Broker

Message Chanel

NOTIFICATION SERVICE

DB

PAYMENT SERVICE

DB

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Styles of interactions between Microservices

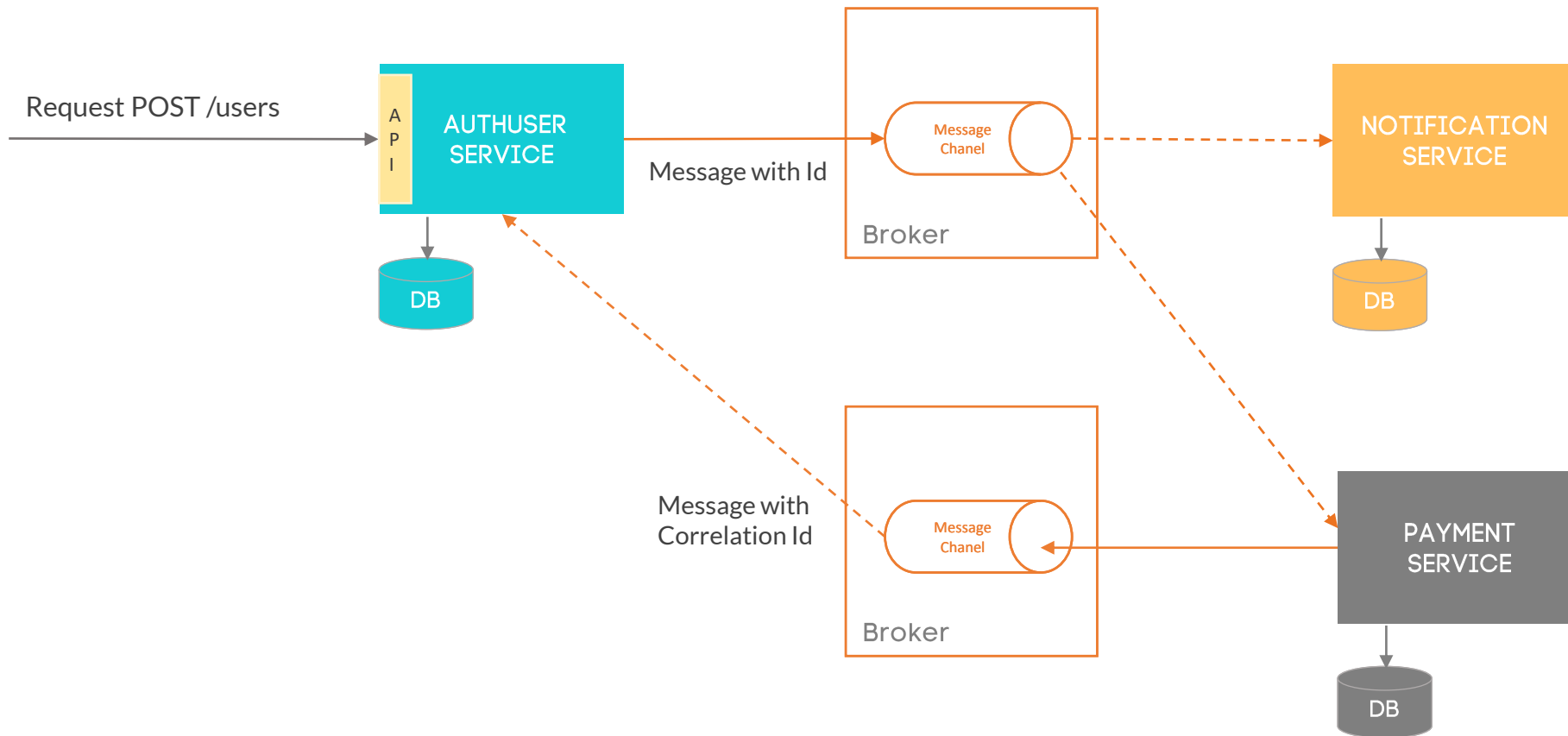|	One-To-One	One-To-Many
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Publish/async responses via Message

Request POST /users

API

AUTHUSER SERVICE

DB

Message with Id

Broker

Message Chanel

NOTIFICATION SERVICE

DB

Message with Correlation Id

Broker

Message Chanel

PAYMENT SERVICE

DB

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Which style of interaction to choose?