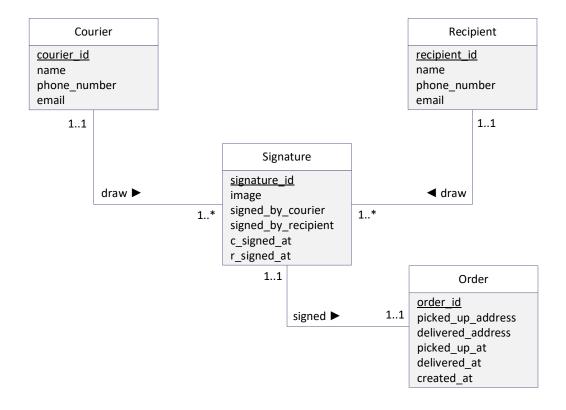
Wolt Case 1 (4)

1 ER DIAGRAM



Clarifications

- 1. Courier, Recipient, and Order entities are created to support the Signature entity
- 2. All the fields or the Courier, Recipient, and Order entities are the basic necessary fields for us to imagine the real-life scenario
- 3. The Order entity's fields are made up based on the customer's proof-of-delivery MVP

2 RELATIONAL SCHEMA

COURIER (courier_id, name, phone_number, email)

RECIPIENT (<u>recipient id</u>, name, phone_number, email)

ORDER (<u>order_id</u>, picked_up_address, delivered_address, picked_up_at, delivered_at created_at)

SIGNATURE (<u>signature_id</u>, image, signed_by_courier, signed_by_recipient, c_signed_at, r_signed_at, courier_id, recipient_id, order_no)

FK (courier_id) REFENRENCES COURIER (courier_id)

FK (recipient_id) REFENRENCES RECIPIENT (recipient_id)

FK (order_no) REFENRENCES ORDER (order_no)

Wolt Case 2 (4)

2.1 ATTRIBUTE TYPE DESCRIPTIONS

Courier

Attribute Type	Description	Data Type	Value Required	Identity Attribute or part of it	Special Domain
courier_id	Courier's identifier	Text	Yes	Yes	Valid UUID format
name	Courier's name	Text	No	-	-
phone_number	Courier's phone number	Text	Yes	-	-
email	Courier's email	Text	No	-	Valid email format

Recipient

Attribute Type	Description	Data Type	Value Required	Identity Attribute or part of it	Special Domain
recipient_id	Recipient's identifier	Text	Yes	Yes	Valid UUID format
name	Recipient's name	Text	No	-	-
phone_number	Recipient's phone number	Text	Yes	-	-
email	Recipient's email	Text	No	-	Valid email format

Order

Attribute Type	Description	Data Type	Value Required	Identity Attribute or part of it	Special Domain
order_id	Order's identifier	Text	Yes	Yes	Valid UUID format
picked_up_address	Order's picked-up address	Text	No	-	-
delivered_address	Order's delivered address	Text	Yes	-	-
picked_up_at	Order's picked-up timestamp	Timestamp	Yes	-	-
delivered_at	Order's delivered timestamp	Timestamp	Yes	-	-
created_at	Order's created timestamp	Timestamp	Yes	-	-

Signature

Attribute Type	Description	Data Type	Value Required	Identity Attribute or part of it	Special Domain
signature_id	Signature's identifier	Text	Yes	Yes	Valid UUID format
Image	Signature's image	Blob	Yes	-	-
signed_by_courier	The existence of courier's signature	Boolean	Yes	-	0 or 1
signed_by_recipient	The existence of recipient's signature	Boolean	Yes	-	0 or 1
c_signed_at	Courier signature's timestamp	Timestamp	Yes	-	-
r_signed_at	Recipient signature's timestamp.	Timestamp	Yes	-	-

Wolt Case 3 (4)

2.2 TABLE DESCRIPTIONS

Courier

Column	Description	Data Type	Value Required	Key	Special Domain
id	Unique courier identifier	VARCHAR (36)	Yes	PRIMARY KEY	UUID
name	Courier's name	VARCHAR (50)	No	-	-
phone_number	Courier's phone number	VARCHAR (50)	Yes	-	-
email	Courier's email	VARCHAR (50)	No	-	Check '@'

Recipient

Column	Description	Data Type	Value Required	Keys	Special Domain
id	Unique recipient identifier	VARCHAR (36)	Yes	PRIMARY KEY	UUID
name	Recipient's name	VARCHAR (50)	No	-	-
phone_number	Recipient's phone number	VARCHAR (50)	Yes	-	-
email	Recipient's email	VARCHAR (50)	No	-	Check '@'

Order

Column	Description	Data Type	Value Required	Key	Special Domain
id	Unique order identifier	VARCHAR (36)	Yes	PRIMARY KEY	UUID
picked_up_address	Order's picked-up address	VARCHAR (50)	No	-	-
delivered_address	Order's delivered address	VARCHAR (50)	Yes	-	-
picked_up_at	Timestamp when the order is picked up	TIMESTAMP	Yes	-	YYYY-MM-DD hh:mm:ss
delivered_at	Timestamp when the order is delivered	TIMESTAMP	Yes	-	YYYY-MM-DD hh:mm:ss
created_at	Timestamp when the order is first created	TIMESTAMP	Yes	-	YYYY-MM-DD hh:mm:ss

Wolt Case 4 (4)

Signature

Column	Description	Data Type	Value Required	Key	Special Domain
id	Unique signature identifier	VARCHAR (36)	Yes	PRIMARY KEY	UUID
Image	Signature's image	BLOB	Yes	-	-
signed_by_courier	Courier signature status "true" = is signed "false" = not yet signed	TINYINT(1)	Yes	-	1, 0 Default to 0
signed_by_recipient	Recipient signature status "true" = is signed "false" = not yet signed	TINYINT(1)	Yes	-	1, 0 Default to 0
c_signed_at	The timestamp when the courier signs	TIMESTAMP	Yes	-	YYYY-MM-DD hh:mm:ss
r_signed_at	The timestamp when the recipient signs	TIMESTAMP	Yes	-	YYYY-MM-DD hh:mm:ss
courier_id	Unique courier identifier	VARCHAR (50)	Yes	FOREIGN KEY 1 => Courier	UUID
recipient_id	Unique recipient identifier	VARCHAR (50)	Yes	FOREIGN KEY 2 => Recipient	UUID
order_id	Unique order identifier	VARCHAR (50)	Yes	FOREIGN KEY 3 => Order	UUID