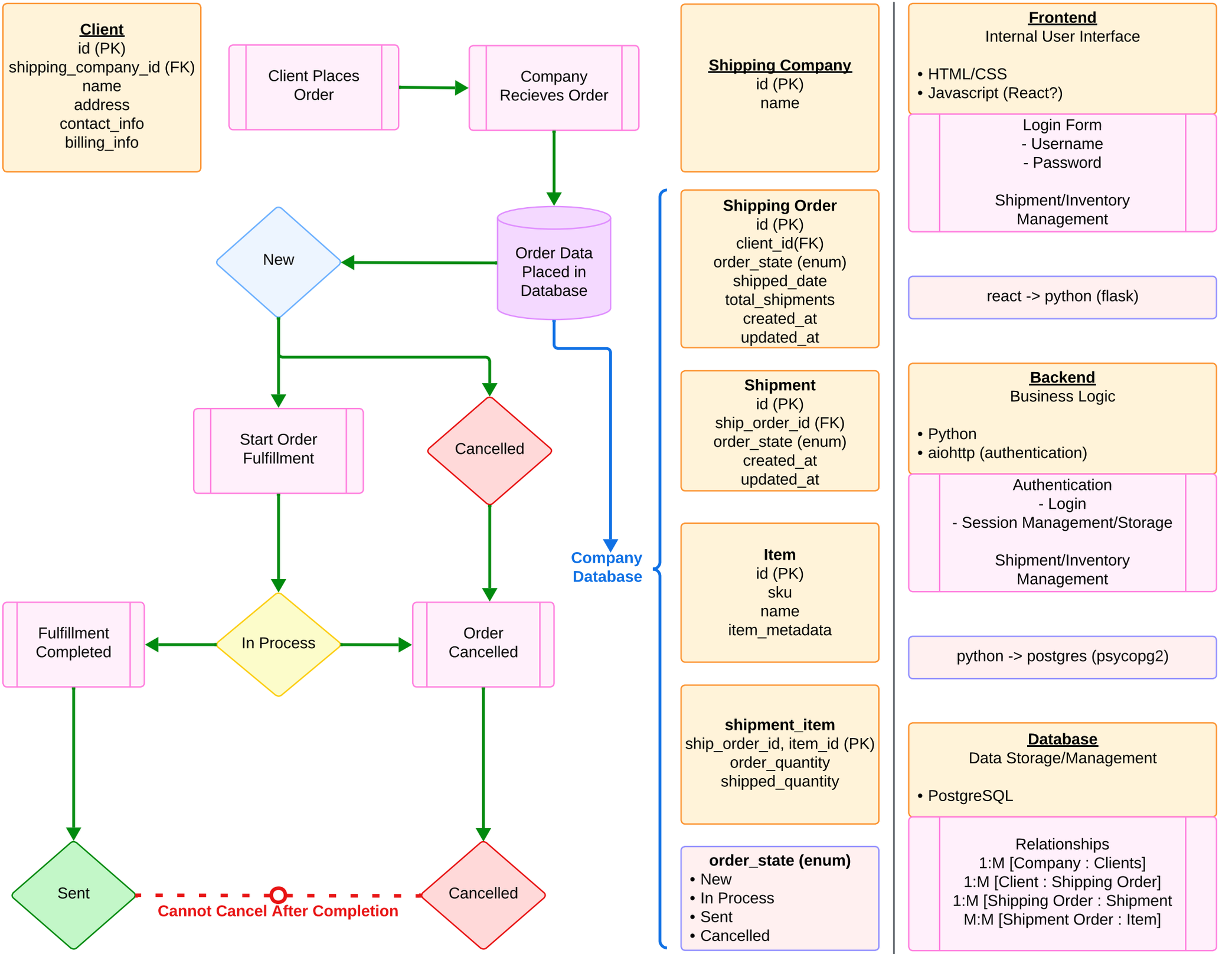
Client
id (PK)
shipping_company_id (FK)
name
address
contact_info
billing_info
Client Places Order
Company Recieves Order
Order Data Placed in Database
New
Start Order Fulfillment
Cancelled
Company Database
Fulfillment Completed
In Process
Order Cancelled
Sent
Cannot Cancel After Completion
Cancelled
Shipping Company
id (PK)
name
Shipping Order
id (PK)
client_id(FK)
order_state (enum)
shipped_date
total_shipments
created_at
updated_at
Shipment
id (PK)
ship_order_id (FK)
order_state (enum)
created_at
updated_at
Item
id (PK)
sku
name
item_metadata
shipment_item
ship_order_id, item_id (PK)
order_quantity
shipped_quantity
order_state (enum)
• New
• In Process
• Sent
• Cancelled
Frontend
Internal User Interface
• HTML/CSS
• Javascript (React?)
Login Form
- Username
- Password
Shipment/Inventory Management
react -> python (flask)
Backend
Business Logic
• Python
• aiohttp (authentication)
Authentication
- Login
- Session Management/Storage
Shipment/Inventory Management
python -> postgres (psycopg2)
Database
Data Storage/Management
• PostgreSQL
Relationships
1:M [Company : Clients]
1:M [Client : Shipping Order]
1:M [Shipping Order : Shipment
M:M [Shipment Order : Item]