**Objective**

Design an **integration solution** for an existing E-commerce system and an existing monolithic ERP, ensuring reliable and timely order synchronization between both.

**🧾 Context**

The E-commerce rental application allows users to:

* Browse and select items.
* Add items to a cart.
* Enter payment details.
* Place an order to rent the items.

No updates to an order will be made directly via the e-commerce application after it has been submitted.

Once an order is submitted, it needs to be stored in the ERP's SQL database**.**

The Order data models of the two systems are not the same.

After an order has been stored in the ERP's SQL database, further updates may be made to that order in the ERP directly. These updates should be transmitted to the e-commerce application in "near real time" if possible, keeping the two systems in sync.

**Existing System Landscape**

* **E-commerce Frontend**: Internet-facing azure web application.
* **E-commerce API**: Azure Web API app which provides endpoints to read from and write to the E-commerce backend. You can assume that any read/write functionality required by your solution is available via this API.
* **ERP**: A third-party application consisting of a WinForms front end, and a SQL Server Enterprise back end. The SQL database is hosted in Azure IaaS. Direct database access is available. No APIs are available.
* **Azure:** All company infrastructure is Azure based. Your solution should use Azure PaaS and/or IaaS components.