# ****Data Exchange Requirements(Context Passing,Session Handling)****

Two key methods used for this purpose are **Context Passing** and **Session Handling**.

## ****1. Context Passing****

### ****Definition:****

Context Passing is the process of **transferring necessary information between AI modules or processes during a single operation**. It ensures that intermediate data from one stage is available to the next stage in the AI pipeline.

### ****Example:****

****Flow Chart (Context Passing):****

User: "Track my order #123"

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NLU extracts → order\_id = 123

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Order Tracking AI module

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▼

Fetch status from database

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Response: "Your order #123 is out for delivery."

## ****2. Session Handling****

### ****Definition:****

Session Handling is the process of **storing and maintaining user-specific data across multiple interactions**. It allows AI systems to remember previous actions and provide personalized, continuous experiences.

### ****Example:****

## ****Flow Chart (Session Handling)****

In an **AI virtual assistant**:

User: "Play some music"

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System stores → session["activity"] = "music"

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User: "Increase the volume"

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System checks session → activity = music

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System action: Volume increased

#### Importance

**Smooth Workflow**

**Contextual Understanding**

**Personalization**

**Efficiency**

**Stateful Conversations**

**Real-world Usability**