Interface Specification -   Simple Explanation

What is an Interface Specification?

An **interface specification** is like a set of instructions that explains how two parts of a system or software can talk to each other. It makes sure everything works together correctly.

Why Do We Need It?

- **To Connect Different Systems**: Think of it like a bridge that lets two systems or programs send information to each other.

- **Avoid Confusion**: It helps everyone know exactly what to expect, so there are no mistakes.

What Does It Contain?

- **What Data is Sent**: Explains what kind of data is being shared (for example, a name, age, or email).

- **How to Send Data**: Tells how the information is sent (like a phone call or a message).

- **What Comes Back**: Describes what kind of response is expected in return.

Example:

Imagine you're sending a message to a website to get user information:

- **You send**: "Give me details about user ID 101."

- **Website sends back**: "Here's the name, age, and email of user 101."

Why is it Important?

- **Makes Communication Clear**: So both sides know exactly what to do.

- **Prevents Errors**: When everything is clear, mistakes are less likely to happen.