A diagram of a computer

Description automatically generated

In this scenario where “A Buyer can purchase one or more real estate properties, but a real estate property can be sold to only one buyer”, you can describe the cardinality and modality as follows:

CARDINALITY:

* The relationship is Many-to-One(N :1).
* From the perspective of Buyers the cardinality is one-to-many (1: N). This means that one buyer can purchase multiple real estate properties (maximum of many).
* From the perspective of Real Estate Properties, the cardinality is many-to-one (N: 1). This means that real estate property can be sold to only one buyer (maximum of 1).

MODALITY:

* The relationship is mandatory-optional
* From the perspective of Buyers the modality is mandatory. This means that a buyer is required to purchase at least one real estate properties (minimum of 1).
* From the perspective of Real Estate Properties, the modality is optional. This means that a real estate property might not be sold to any buyer(minimum of 0).