SmartRefrigerator UML Diagram - Annotations

Annotated UML Relationships

Below is the annotated UML relationship for the SmartRefrigerator system:

Refrigerator (extends Thread)

|--- Composition --> Motor
| (Motor is created and managed by Refrigerator; it cannot exist without Refrigerator.)
|--- Composition --> FreezerUnit
| (FreezerUnit is created and managed by Refrigerator; it cannot exist without Refrigerator.)
|--- Aggregation --> ManualGuide
|--- Aggregation --> ManualGuide
| (ManualGuide is passed into Refrigerator externally; it can exist independently.)

Other Classes:

SmartRefrigerator (contains main method)

Notes:

Composition is denoted by a strong lifecycle dependency (filled diamond in UML diagrams).

Aggregation is denoted by a weaker relationship where the part can exist independently (hollow diamond in UML diagrams).

