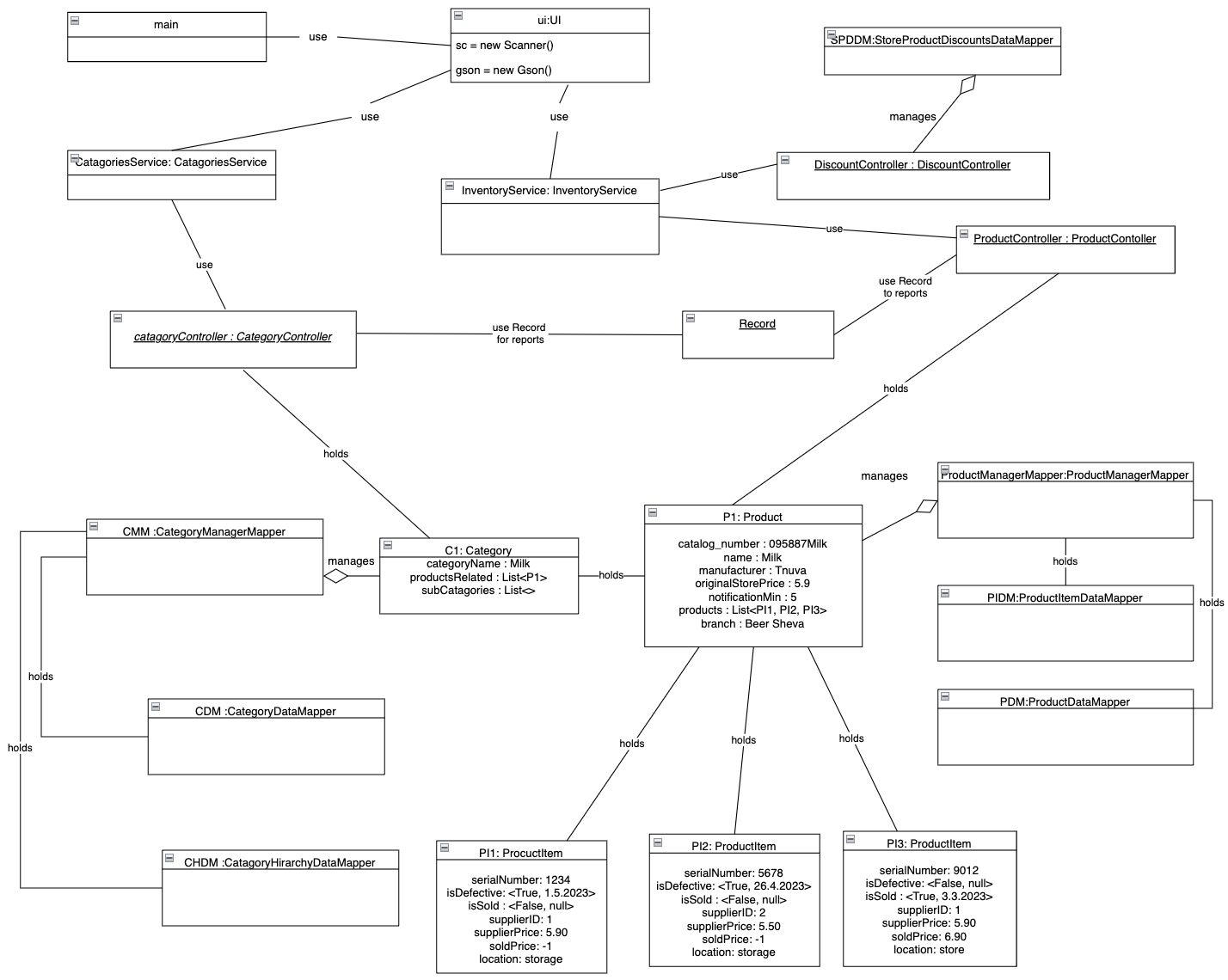
**Inventory - Scenario 1:**

**Warehouseman added a new product to the system - milk and updated the system about 3 new milk boxes that arrived to the store.**

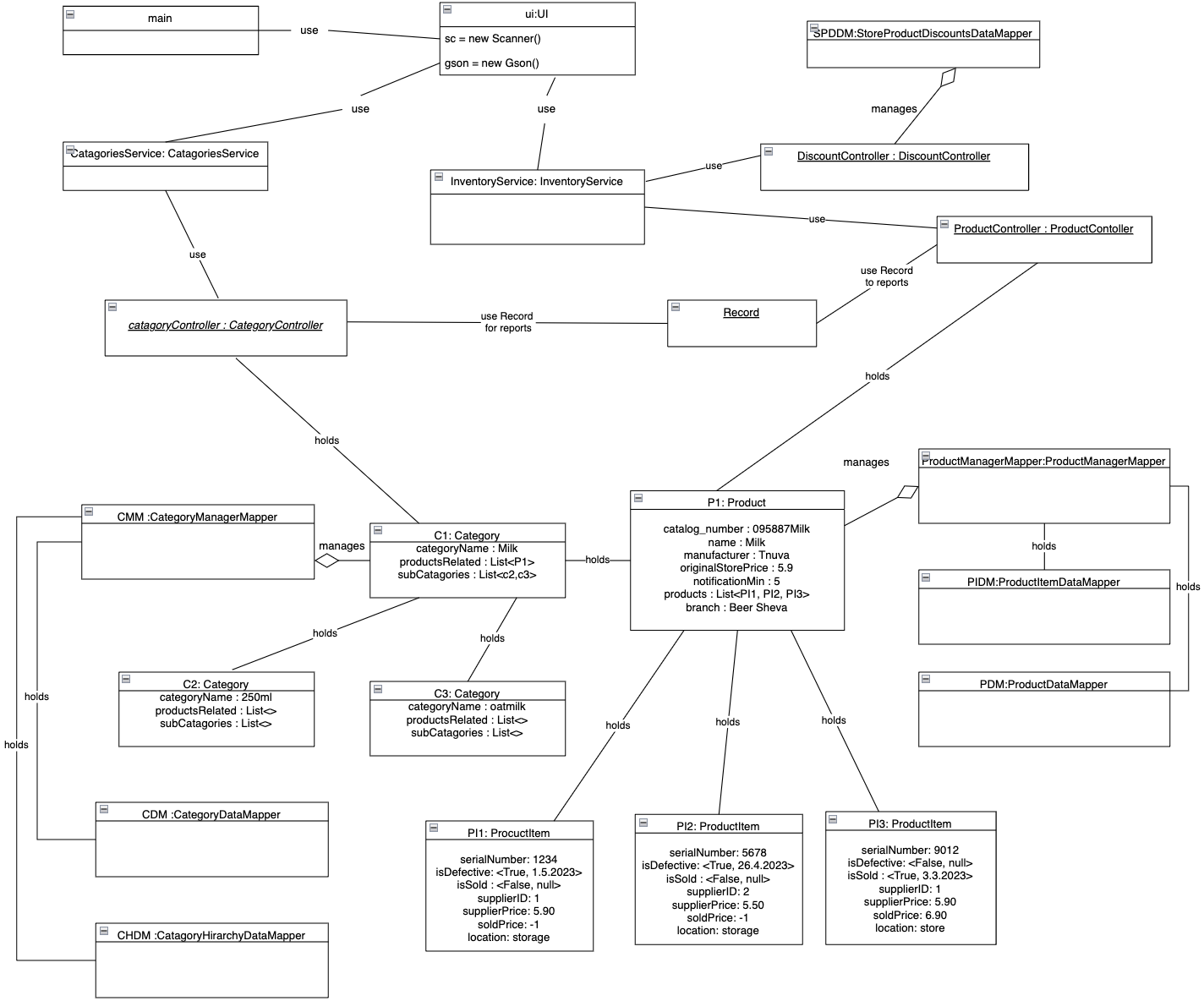
**- the object diagram is after action performed- strongly satisfiable**

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**Inventory - Scenario 2:**

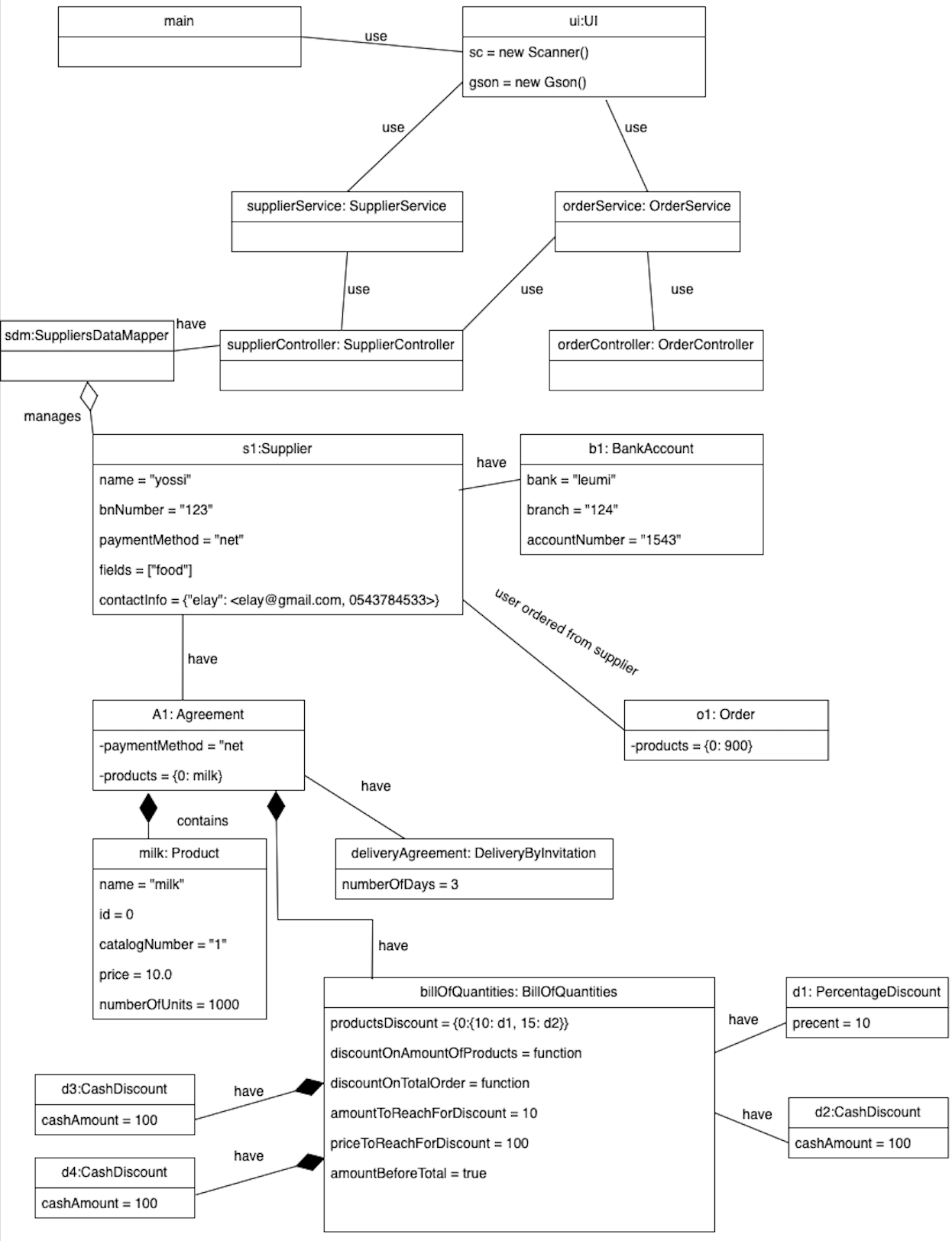
**Now,the warehouseman is adding 3 sub categories under the milk category.**

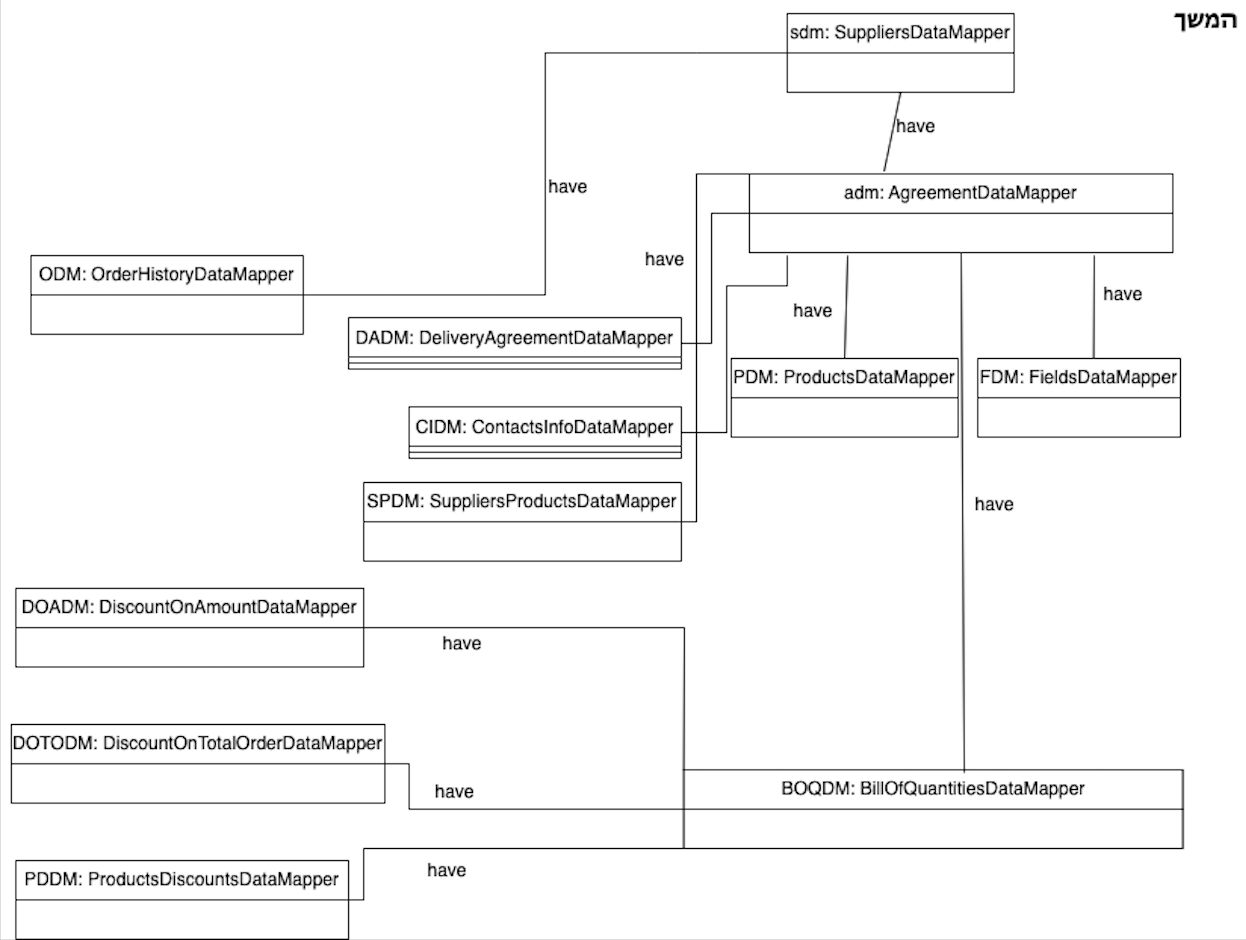
**- the object diagram is after action performed- strongly satisfiable**

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**Suppliers - Scenario 1: User order 900 milk and the system contains one supplier**

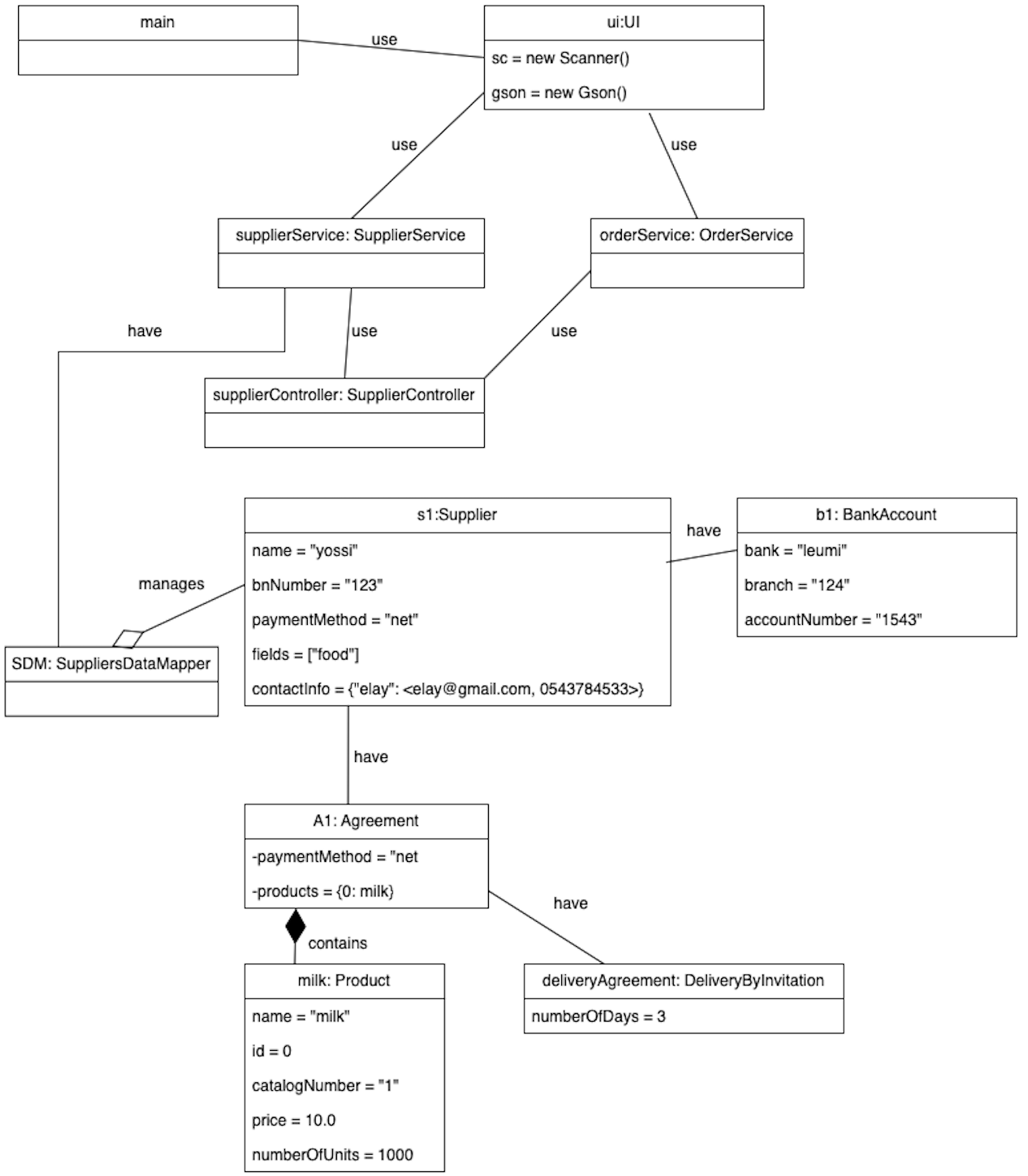
**- the object diagram is after action performed- strongly satisfiable**

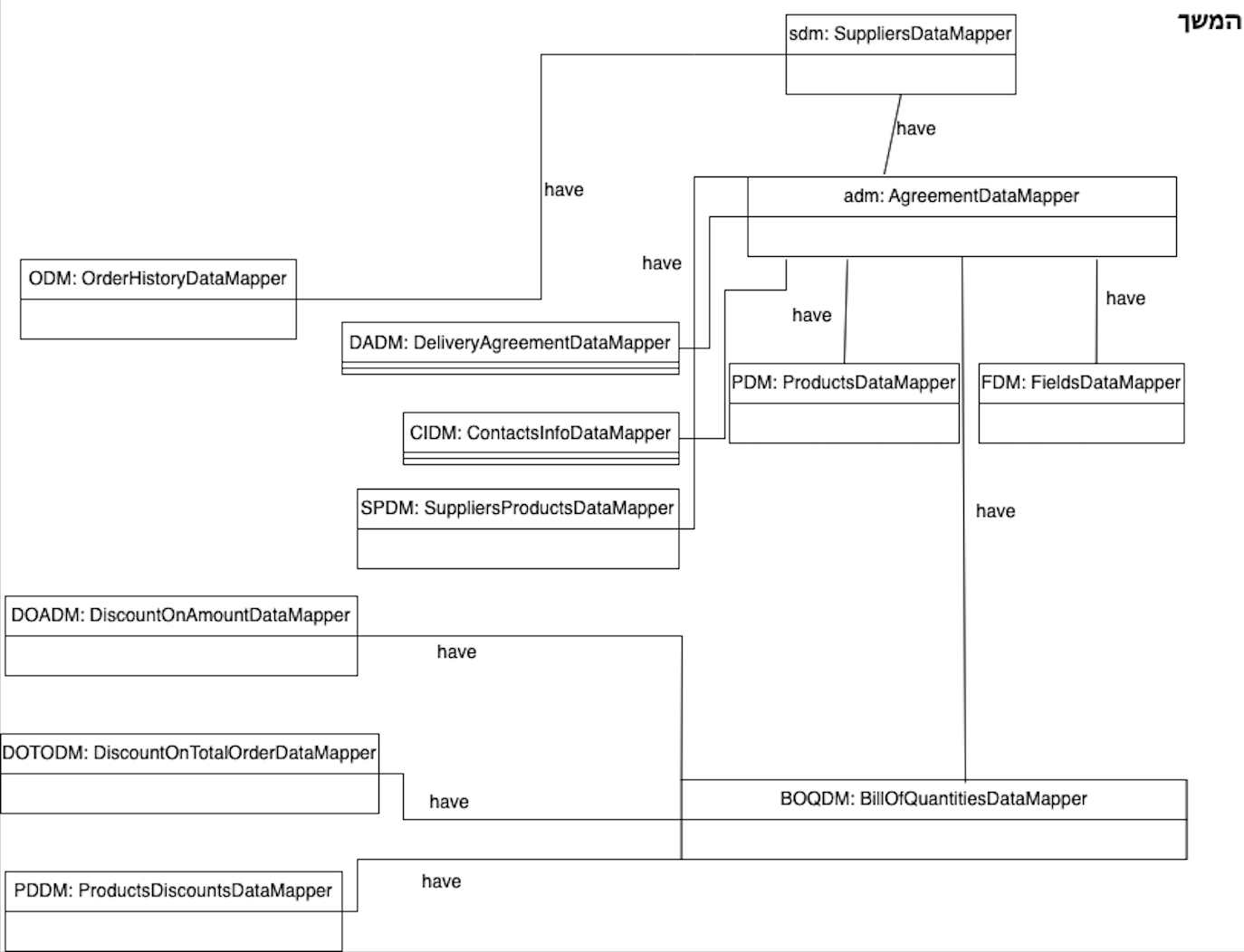
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**Suppliers - Scenario 2: user adds new supplier to the system the supplier can supply product "milk"**

**- the object diagram is after action performed- strongly satisfiable**

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