Milk Delivery System

Requirements Statements

A system is to be produced which holds details of deliveries of different brands of milk in a small town.

As well as recording which households take which brands of milk, this system also includes billing details and details of customer vacations when milk will not be delivered.
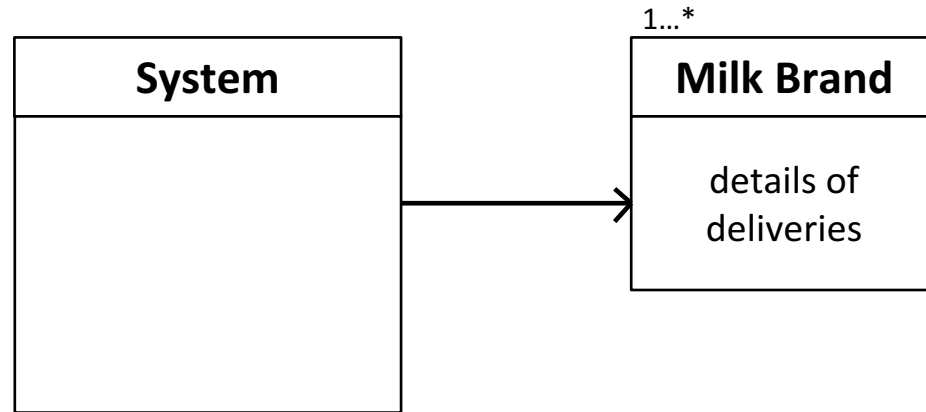
The household will phone the delivery company to change the personal information, like address, to inform of the vacation, and to change the order of milk.

For each delivery person, the system prints a daily list of which brands of milk are to be delivered to which households. The system should also be able to produce summary information showing how many liters of each milk type were sold each day of the week.

Bills for each customer are printed at the end of each month and delivered with the first delivery of the following month.
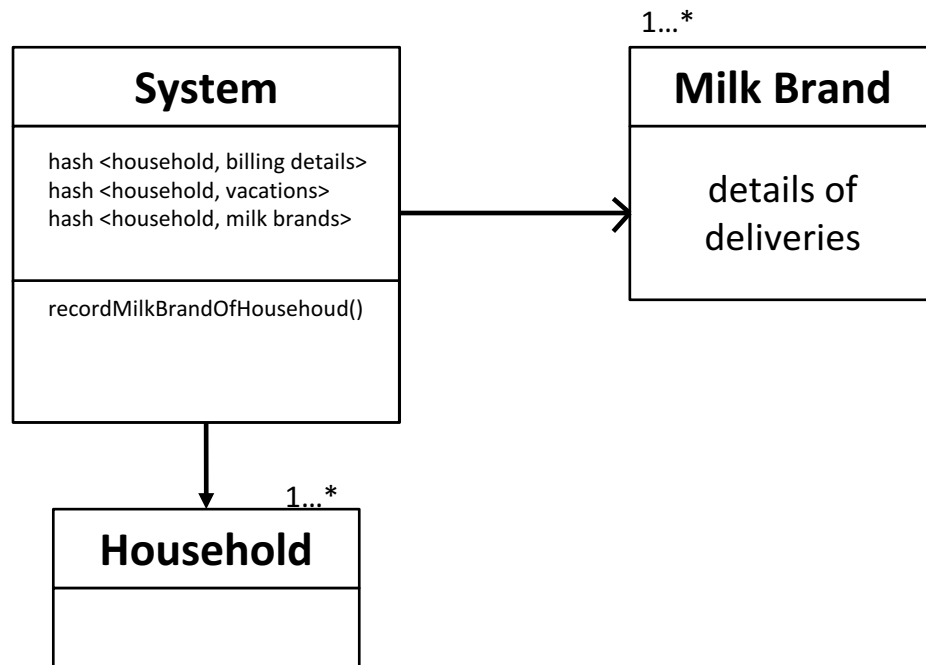
Milk Delivery System₁

A **system** is to _**be produced**_ which _**holds**_ **details of deliveries of different brands of milk** in a small town.
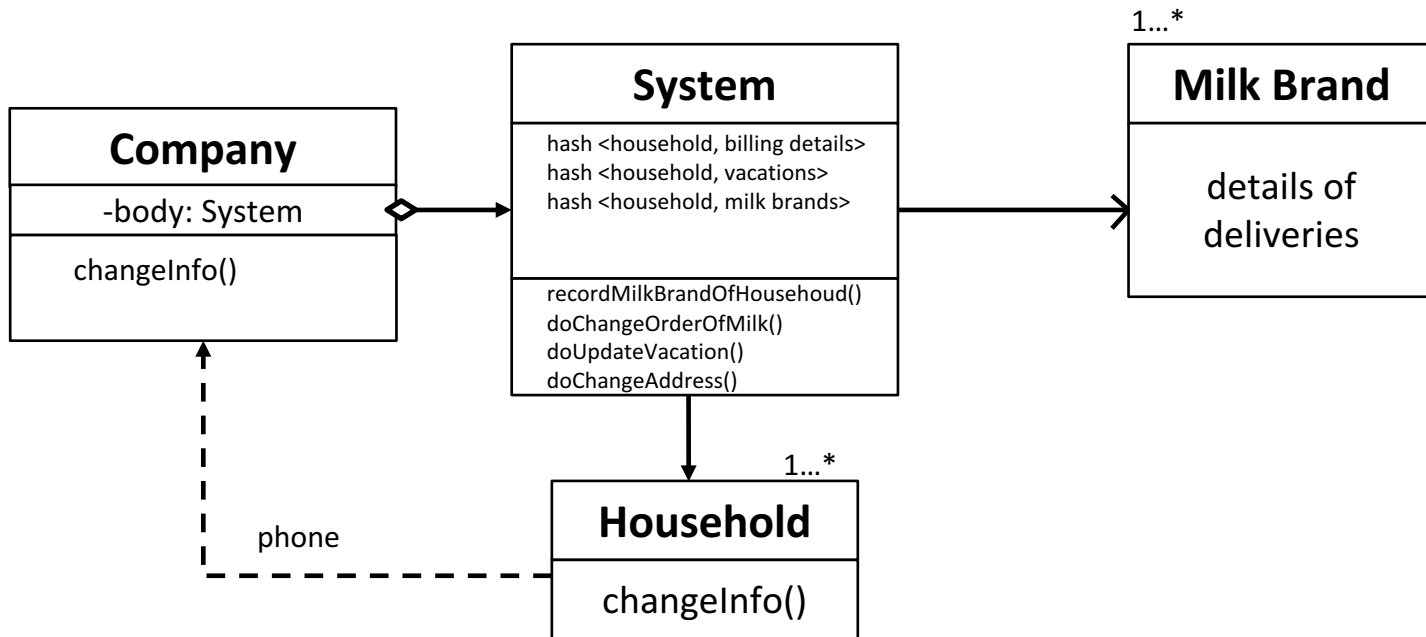
Milk Delivery System$_2$

As well as recording which **households** take which **brands of milk**, this system also includes **billing details** and **details of customer vacations** when milk will not be delivered.
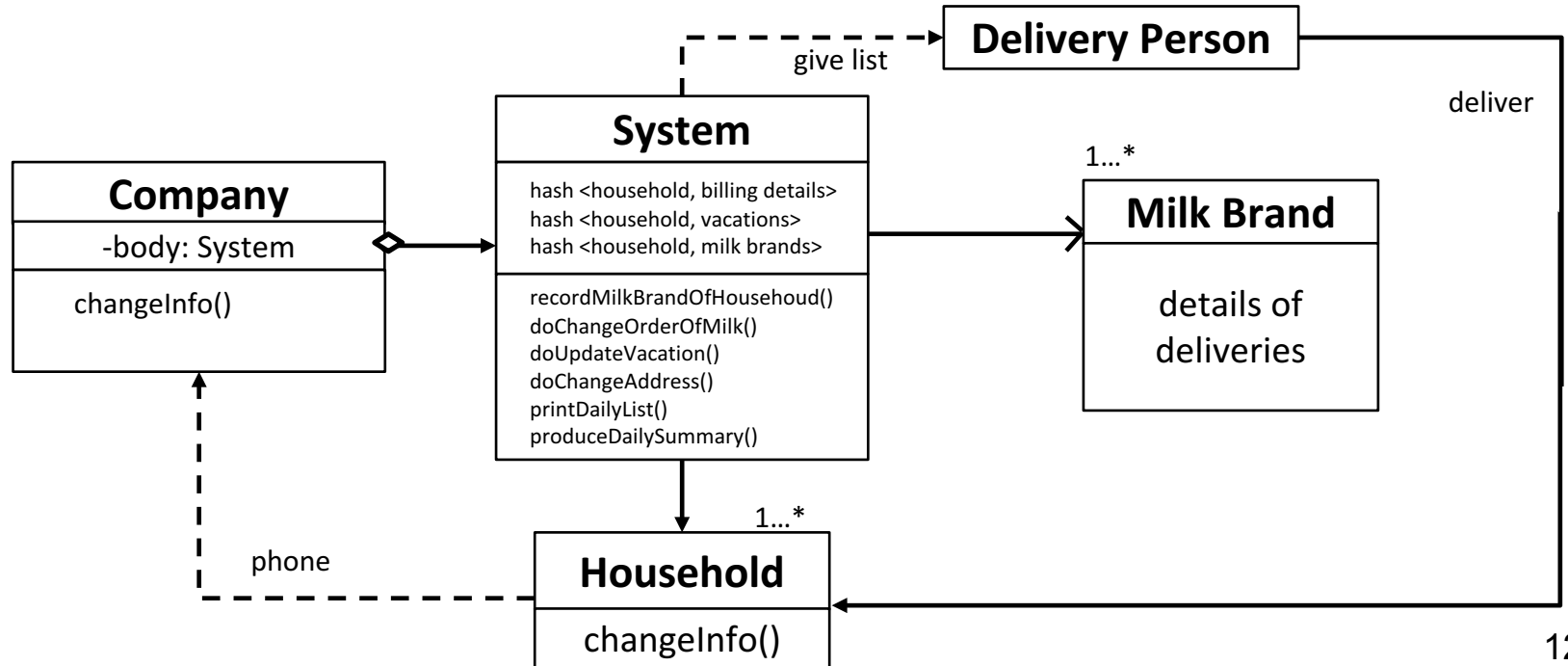
Milk Delivery System₃

The **household** will **phone** the **delivery company** to change the personal information, like address, to inform of the vacation, and to change the order of milk.
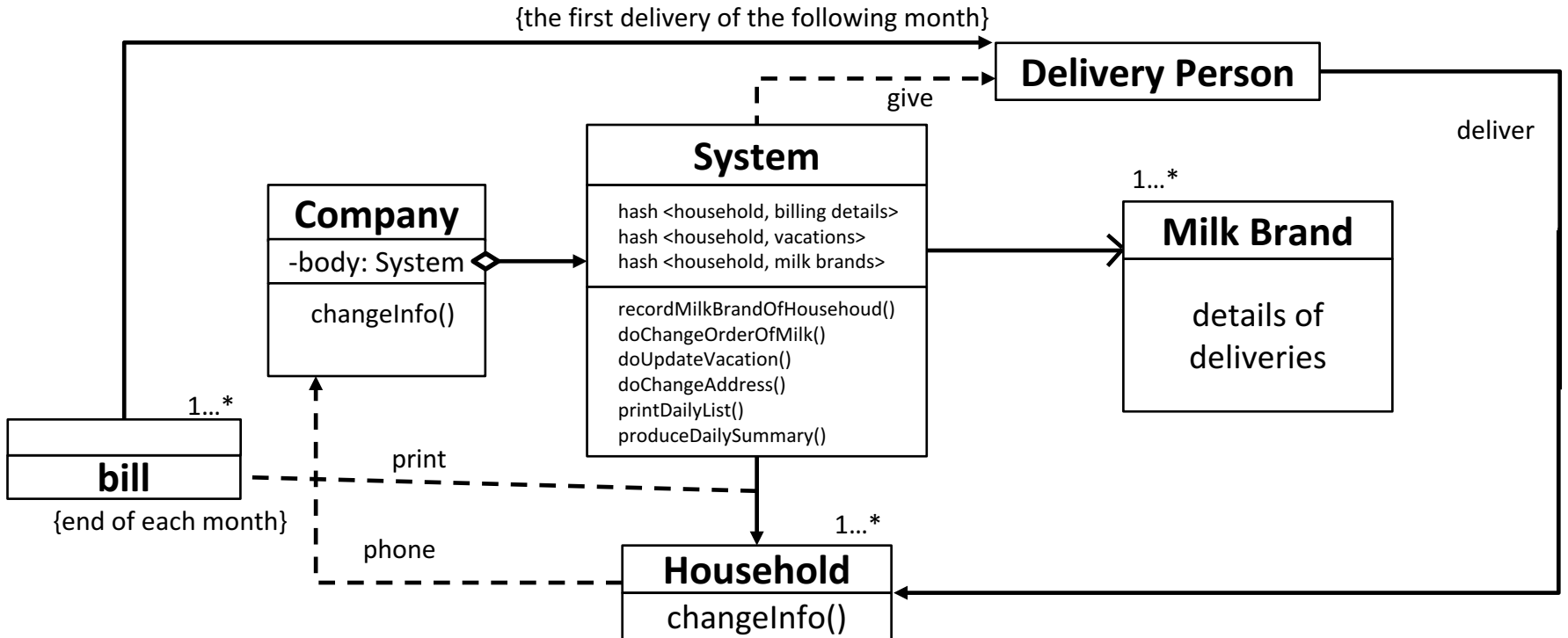
Milk Delivery System₄

For each **delivery person**, the system _**prints**_ a daily **list** of which brands of milk are to be delivered to which households. The system should also be able to _**produce**_ **summary information** showing how many liters of each milk type were sold each day of the week.

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Milk Delivery System₅

Bills for each customer are printed at the end of each month and delivered with the first delivery of the following month.

Milk Delivery System₆   Final Diagram

{the first delivery of the following month}

Delivery Person

deliver

give

System

hash <household, billing details>
hash <household, vacations>
hash <household, milk brands>

recordMilkBrandOfHousehoud()
doChangeOrderOfMilk()
doUpdateVacation()
doChangeAddress()
printDailyList()
produceDailySummary()

Company

-body: System

changeInfo()

1…*

Milk Brand

details of
deliveries

bill

1…*

{end of each month}

print

phone

Household

changeInfo()

1…*

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