



PHARMACY

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SIMULATION



WE HAVE CREATED A PHARMACY PROGRAM WHERE A CUSTOMER MAY PICK UP THEIR PRESCRIPTION. A CUSTOMER WALKS INTO THE PHARMACY AND PROVIDES THEIR NAME AND BIRTHDAY. A PHARMACIST DISTRIBUTES THE CORRESPONDING PRESCRIPTION TO THE CUSTOMER.

DATA STRUCTURES & CONCEPTS

DATA STRUCTURES

ABSTRACT CLASS

ABSTRACT METHOD

CONCRETE CLASS

ARRAYLIST

CONCEPTS

INCLUSION POLYMORPHISM

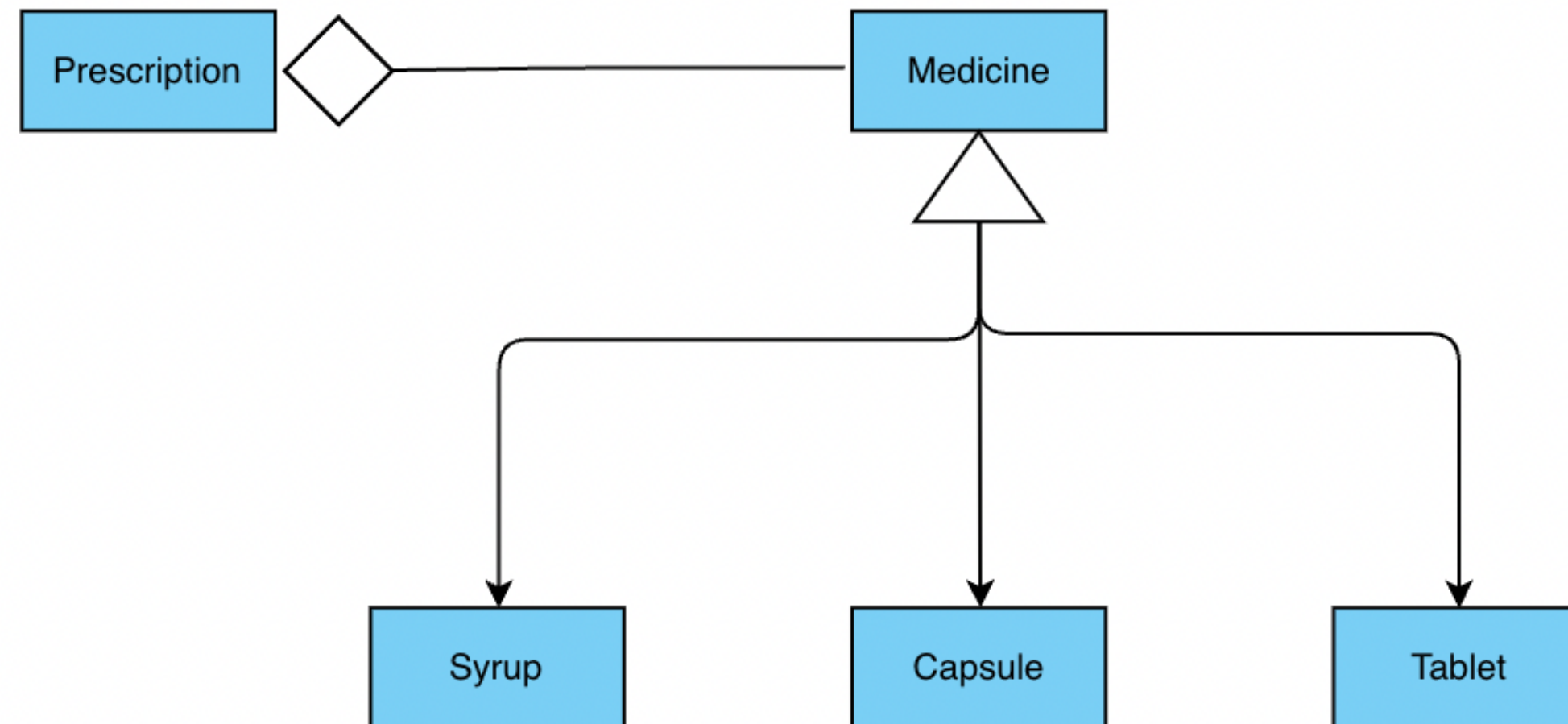
AGGREGATION

INHERITANCE

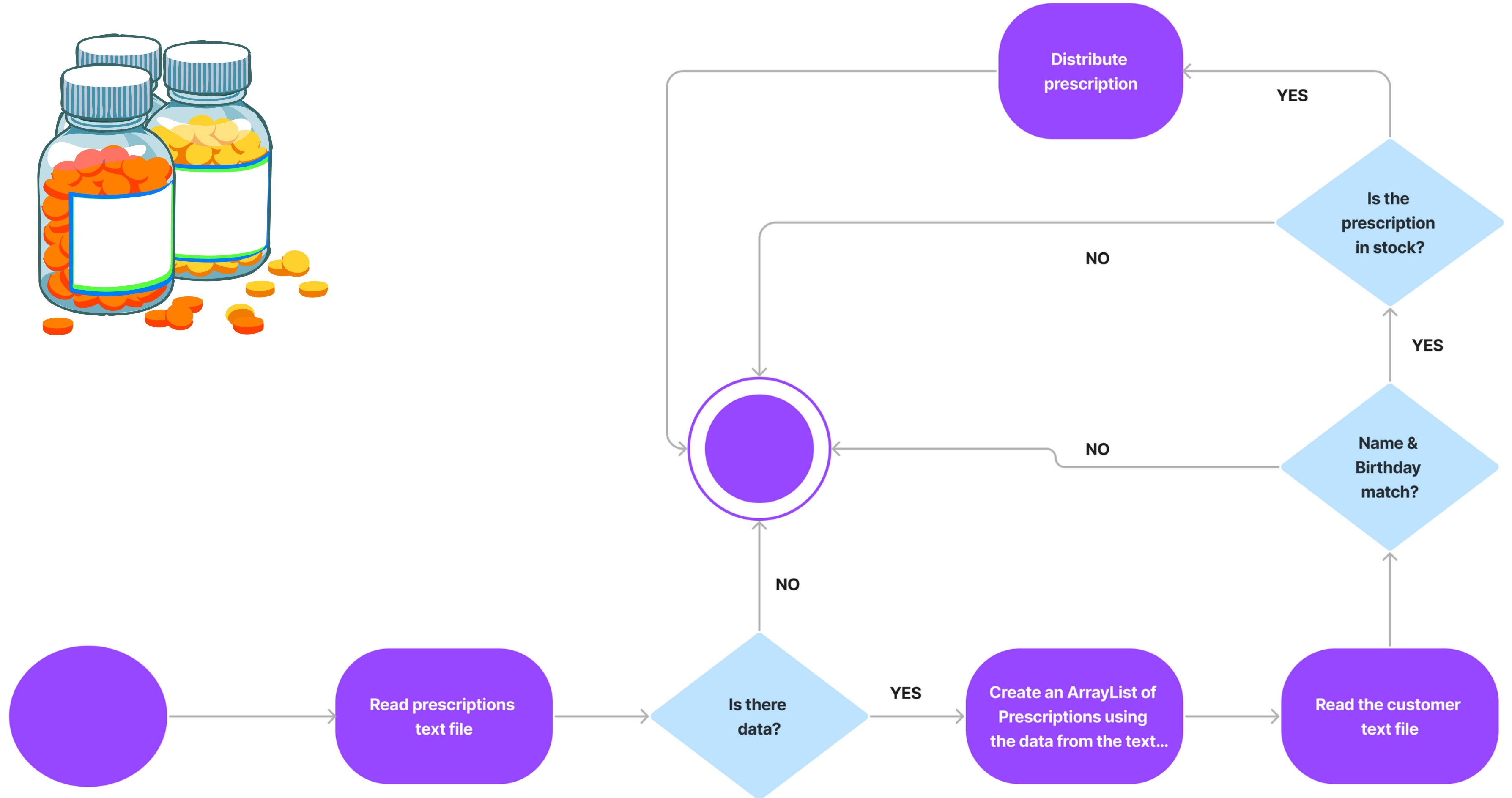
METHOD OVERRIDING

UPCASTING

CLASS DIAGRAM



ACTIVITY DIAGRAM



TEST CASES

1. No prescriptions in the system
2. Prescription in the system, name and birthday do not match
3. Prescription is in the system, the name and birthday match, out of stock
4. Prescription is in the system, name and birthday match, in stock



CODE DEMO

STRENGTHS

TWO-FACTOR AUTHENTICATION

**DOES NOT ALLOW ONE TO FILL
PRESCRIPTIONS NOT IN STOCK**

UPDATES THE STOCK

**POLYMORPHISM AND
AGGREGATION AT ONCE**

WEAKNESSES

TEXT FILE IS CASE SENSITIVE

**FORMATTING OF THE PRESCRIPTION.TXT IS EXPECTED
TO BE ACCURATE**

**MEDICINE SUBCLASSES DO NOT HAVE
UNIQUE CHARACTERISTICS**



THANK YOU

