

TISYE1

Exercise 2.1 feedback

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Plan for the Lecture

- General feedback
- Exercise overview
- Solution suggestion

General feedback

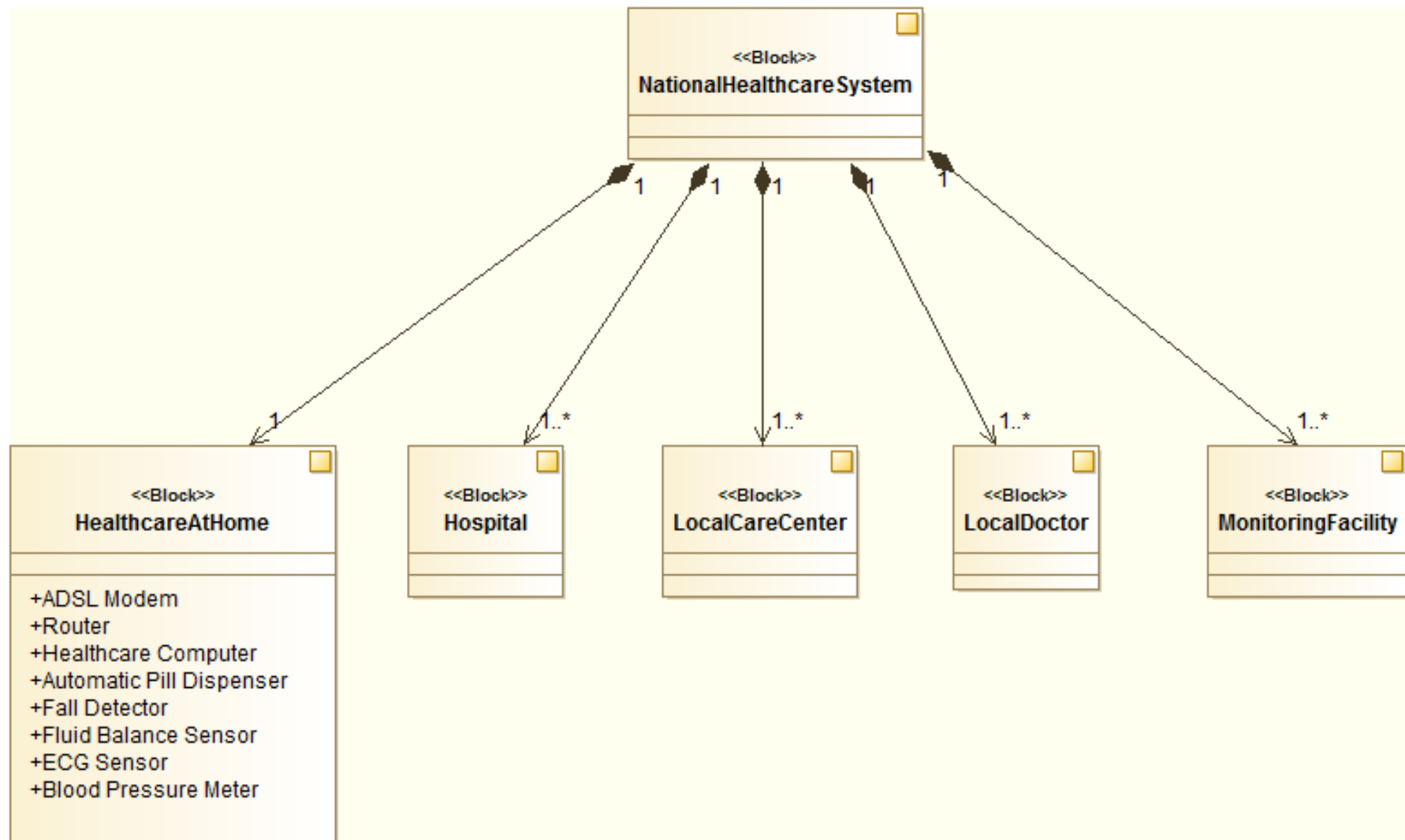
- › Most solutions very good
- › Tools used?
- › BDD:
 - › Inheritance, composition association, reference
 - › Flow Specification added here
- › IBD:
 - › Show all parts – show hierarchy
 - › Non-atomic flow ports, conjugated ports

Exercise a) overview

- › In a larger system context the home of the patient can be regarded as a block called **HealthCareAtHome**. Other entities at this higher abstraction level could be **Hospitals**, **Local Care Centres**, **Local Doctors** and **Monitoring Facilities** (like SOS/Falck-Securitas).
- a) Draw a SysML Block Definition Diagram (bdd) for tier 1

SysML Modelling tool: Modelio

Exercise a) solution suggestion



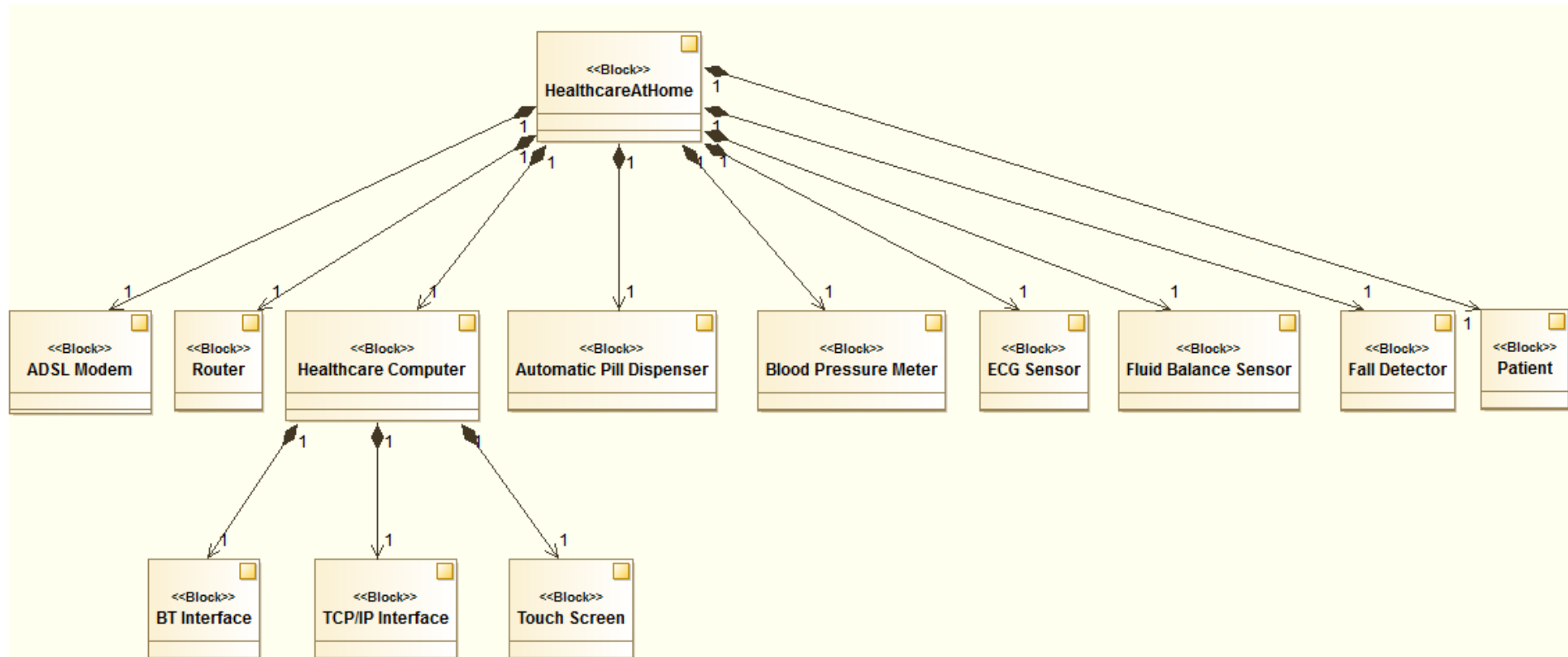
Exercise b) overview

› A healthcare at home system under consideration incorporate the following components in the home:

- An ADSL connection and modem,
- a router,
- a healthcare computer (running the healthcare applications),
- an automatic pill dispenser wirelessly connected to the healthcare computer,
- a blood pressure meter,
- an ECG-sensor (Electrocardiogram) mounted on the person, and
- a fluid balance sensor (mounted on a person).
- a fall detector (mounted on the person).

› The healthcare computer comprises a touch screen and a computer hardware with Blue- tooth and TCP/IP communication interfaces. All healthcare devices such as the blood pressure meter, the ECG-sensor, the fall detector, the fluid balance sensor, and the pill dispenser are connected wirelessly (Bluetooth) to the healthcare computer.

Exercise b) solution suggestion



Exercise c) solution suggestion

