

# Requirements Engineering

The Mentcare system

## Stakeholders

Patients, Doctors, Nurses, Medical receptionists, IT staff, A medical ethics manager, Health care managers, Medical records staff

## User requirements

1. The MHC-PMS **shall** generate monthly management reports showing the cost of drugs prescribed by each clinic during that month.

## System requirements

- 1.1 On the last working day of each month, a summary of the drugs prescribed, their cost, and the prescribing clinics **shall** be generated.
- 1.2 The system **shall** automatically generate the report for printing after 17.30 on the last working day of the month.
- 1.3 A report **shall** be created for each clinic and **shall** list the individual drug names, the total number of prescriptions, the number of doses prescribed, and the total cost of the prescribed drugs.
- 1.4 If drugs are available in different dose units (e.g., 10 mg, 20 mg) separate reports **shall** be created for each dose unit.
- 1.5 Access to all cost reports **shall** be restricted to authorized users listed on a management access control list.

## Functional requirements

- 1.1. The system **shall** generate a summary of the drugs prescribed, their cost, and the prescribing clinics.
- 1.3. A report **shall** be created for each clinic and **shall** list the individual drug names, the total number of prescriptions, the number of doses prescribed, and the total cost of the prescribed drugs.

## Other examples

- ✧ A user **shall** be able to search the appointments lists for all clinics.
- ✧ The system **shall** generate each day, for each clinic, a list of patients who are expected to attend appointments that day.
- ✧ Each staff member using the system **shall** be uniquely identified by his or her 8-digit employee number.

## Non-functional requirements

### Product requirements

- 1.2. The system *shall* automatically generate the report for printing after 17.30 on the last working day of the month.
- 1.4. If drugs are available in different dose units (e.g., 10 mg, 20 mg) separate reports *shall* be created for each dose unit.

### Organizational requirements

- 1.5. Access to all cost reports *shall* be restricted to authorized users listed on a management access control list.

Other examples

### Product requirements

The Mentcare system *shall* be available to all clinics during *normal working hours* (Mon–Fri, 0830–17.30). Downtime within normal working hours *shall* not exceed *five seconds* in any one day.

### Organizational requirements

Users of the Mentcare system *shall* authenticate themselves using their health *authority identity card*.

### External requirements

The system *shall* implement *patient privacy provisions* as set out in HStan-03-2006-priv.