CS1 Task 1: first analysis

# Target users

* Clinical staff
  + Doctors, nurses, health visitors
* Receptionists
  + Office workers only
* Medical records staff
  + Able to give out medical, so-called “Praxisangestellte”
* Other actors
* Patients, visitors (visitor monitor for appointments, presentations, visitor times)

# Key features

## User „clinical staff“

* Provide following key-features:
* Select, update, insert and delete patient records
  + (Address data like name, phone number, etc)
* View patient history
  + (Report)
* Add record to patient with treatment
  + (Date, prescriptions, info’s, etc)
  + Add medicines
  + Add therapy
  + Add forecasting for next appointments
* Various functions as search, print, etc

## User “receptionist”

* Provide following key-features:
* Select, update, insert, delete patient records
* Select, update, insert, delete appointments
  + As “drop-in” emergency
  + As “pre-arranged”
* View prescriptions of patients
* Various functions as search, print, etc

## User “medical record staff”

* Provide following key-features:
* View patient records
* View prescriptions
* Create reports for management
  + Local targets (internally)
  + Government targets

## General

* Various functions as search, print, etc

# Critical success factors

1. Common known usability
2. Infrastructure available
3. High frequent availability of Internet access, own webserver, etc. uptime goal 99.5%
4. To observer the law (data security, privacy protection)
5. Delivery in time
6. Low/acceptable costs of infrastructure (Hardware)
7. Acceptance and aid from payer’s (government, insurances, private hospitals)
8. Market available (mental health problem patients available)
9. Working project management

# Potential system components and high-level architecture

## Components

* Clients
  + Including devices like barcode scanners, scanners, printers, cameras
    - Define environment like OS, Java version, architecture
* Servers
  + Representing DB-Server, Webserver, Fileserver , etc
    - Define environment, architecture
* Network communication
  + Firewall, providing network access, etc

## High-level architecture

* Database
  + Details to be defined
* Businesslogic
  + Either in database as functions, procedures, etc
    - Or as a separate layer written in Java
* Interfaces
  + Userinterface in Java

## Miscellaneous

* Connection over Webservices, JDBC Interface