Requirements Document for Co-opMeeting

Leonie Pelle   Gero Büßing   Sebastian Müller

Sven Bamberger

November 5, 2013

Glossary

3G is the third generation of mobile telecommunications technology. 3G telecommunication networks support services that provide an information transfer rate of at least 200 kbit/s up to several Mbit/s to smartphones and mobile modems in laptop computers. 15

Account describes the privileges for registred users. 9–11

Admin User administartes and maintains the system. 11

Alias is the displayed user name in a session. 9

Anonymous User is someone who is not registred to the system and therefore has no user account. 9

Blacklist is a list or register of entities who, for one reason or another, are being denied a particular privilege, service, or access. 11

Installed Plugins are plugins which are approved by an admin user and installed on the server, so that every regular user can use them. 9–11

Invitations are used to ask regular users to join a session. 10

Keys are used to invite anonymous users to a session. 10

Michael's smartphone is an old outdated smartphone that is only capable of running Android 2.2. 15

Moderator is a regular user. Moderators can restrict the privileges of reular users. 10, 11

Plugins are software components that add a specific feature to an existing software. 10, 11

Registration is the process of craeting a new user account. 9

Regular User is someone who is registred and has an account. 9–11

Session can be a text based chat, telephone or video conference. 9, 10, 15

Contents

Part I

User Requirements

UR001

Statement *An Anonymous User may be invited to any Session by a key from Regular Users.*

Priority *A*

UR002

Statement *An Anonymous User shall be able to use Installed Plugins for the Session he is invited to.*

Priority *A*

UR003

Statement *An Anonymous User shall be able to register at the server, if Registration is possible.*

Priority *A*

UR004

Statement *A Regular User must register with a valid email address.*

Priority *A*

UR005

Statement *A Regular User shall be able to login with his email address and password.*

Priority *A*

UR006

Statement *A Regular User shall be able to change his password and/or Alias.*

Priority *A*

UR007

Statement *A Regular User shall be able to delete his own Account.*

Priority *A*

UR008

Statement *A Regular User shall be able to open Sessions.*

Priority *A*

UR009

Statement *A Regular User shall be able to join any Session he is invited to.*

Priority *A*

UR010

Statement *A Regular User shall be able to close Sessions he has the rights to.*

Priority *A*

UR011

Statement *A Regular User shall be able to create and distribute Keys and send Invitations to every Session he has the rights to.*

Priority *A*

UR012

Statement *A Regular User may activate or deactivate Installed Plugins.*

Priority *A*

UR013

Statement *A Regular User shall be able to request installation of new Plugins.*

Priority *A*

UR014

Statement *A Moderator shall be able to restrict privileges of Regular Users, if a Regular User misbehaves like insulting others, uploading inappropriate content or harming the system.*

Priority *A*

UR015

Statement *A Moderator shall be able to restore privileges of Regular Users.*

Priority *A*

UR016

Statement *A Moderator shall be able to suspend Accounts of Regular Users for a certain amount of time.*

Priority *A*

UR017

Statement *An Admin User shall be able to reset passwords for every Account, if a Regular User, a Moderator or an Admin User forgot the password.*

Priority *A*

UR018

Statement *An Admin User shall be able to test Plugins requested by a Regular User.*

Priority *A*

UR019

Statement *An Admin User shall be able to install tested Plugins.*

Priority *A*

UR020

Statement *An Admin User shall be able to remove previously Installed Plugins.*

Priority *A*

UR021

Statement *An Admin User shall be able to add Plugins to a Blacklist, if they may harm the system.*

Priority *A*

UR022

Statement *An Admin User shall be able to remove Plugins from a Blacklist, if they were accidentally added.*

Priority *A*

Part II

System Requirements

Chapter 1

Non-Functional Requirements

1.1 Product Requirements

1.1.1 Usability Requirements

1.1.1.0.1 NRF001

Statement *Website should be usable with touchscreen devices.*

Priority *A*

1.1.1.0.2 NRF002

Statement *Website schould support the most popular browsers such as Mozilla Firefox, Safari, Opera, Google Chrome and Internet Explorer.*

Priority *A*

1.1.2 Efficiency Requirements

1.1.2.1 Performance Requirements

1.1.2.1.1 NRF003

Statement *Website should work on Michael's smartphone.*

Priority *A*

1.1.2.1.2 NRF004

Statement *Sessions should work with limited internet bandwidth (minimum of 3G) on mobile devices.*

Priority *A*

1.1.2.2   Space Requirements

1.1.3   Dependability Requirements

1.1.3.0.1   NFR001

Statement *The MHC-PMS shall be available to all clinics during normal working hours (MonFri, 08.3017.30). Downtime within normal working hours shall not exceed five seconds in any one day.*

Priority *A*

1.1.4   Security Requirements

1.2   Organziational Requirements

1.2.1   Environmental Requirements

1.2.1.0.2   NFR002

Statement *Users of the MHC-PMS system shall authenticate themselves using their health authority identity card.*

Priority A

1.2.2   Operational Requirements

1.2.3   Development Requirements

1.3   External Requirements

1.3.1   Regulatory Requirements

1.3.2   Ethical Requirements

1.3.3   Legislative Requirements

1.3.3.1   Accounting Requirements

1.3.3.2   Safety / Security Requirements

1.3.3.2.1   NFR003

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

Priority *A*

Chapter 2

Functional Requirements

2.0.3.2.2 FR001

Statement *On the last working day of each month, a summary of the drugs prescribed, their cost, and the prescribing clinics shall be generated. (see user requirement UR001)*

Priority *A*

2.0.3.2.3 FR002

Statement *The system shall automatically generate the report for printing after 17.30 on the last working day of the month. (see user requirement UR001)*

Prioriy *A*

2.0.3.2.4 FR003

Statement *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. (see user requirement UR001)*

Priority *A*

2.0.3.2.5 FR004

Statement *If drugs are available in different dose units (e.g., 10 mg, 20 mg) separate reports shall be created for each dose unit. (see user requirement UR001)*

Priority *A*

2.0.3.2.6   FR005

Statement *Access to all cost reports shall be restricted to authorized users listed on a management access control list. (see user requirement UR001)*

Priority *A*

Chapter 3

Scenarios

3.1 Scenario for collecting medical history

INITIAL ASSUMPTION: *The patient has seen a medical receptionist who has created a record in the system and collected the patients personal information (name, address, age, etc.). A nurse is logged on to the system and is collecting medical history.*

NORMAL: *The nurse searches for the patient by family name. If there is more than one patient with the same surname, the given name (first name in English) and date of birth are used to identify the patient.*
The nurse chooses the menu option to add medical history.
The nurse then follows a series of prompts from the system to enter information about consultations elsewhere on mental health problems (free text input), existing medical conditions (nurse selects conditions from menu), medication currently taken (selected from menu), allergies (free text), and home life (form).

WHAT CAN GO WRONG: *The patients record does not exist or cannot be found. The nurse should create a new record and record personal information.*
Patient conditions or medication are not entered in the menu. The nurse should choose the other option and enter free text describing the condition/medication.
Patient cannot/will not provide information on medical history. The nurse should enter free text recording the patients inability/unwillingness to provide information. The system should print the standard exclusion form stating that the lack of information may mean that treatment will be limited or delayed. This should be signed and handed to the patient.

OTHER ACTIVITIES: *Record may be consulted but not edited by other staff while information is being entered.*

SYSTEM STATE ON COMPLETION: *User is logged on.   The patient record including medical history is entered in the database.*