Requirements Document for Co-opMeeting

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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Michael's smartphone is an old outdated smartphone that is only capable of running Android 2.2. 15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 work-
ing 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 an internal discussion of inconsistent research results

INITIAL ASSUMPTION: *One member of an experimental physics research group has found discrepancies between the simulated and actual behavior of a particle detection experiment (though the underlying physical processes are well known). Because the group is international, he wants to present his findings via the video conferencing tool. This includes the usage document sharing and of a whiteboard with the possibility to place supported graphical files on it.*

NORMAL:

WHAT CAN GO WRONG:

OTHER ACTIVITIES:

SYSTEM STATE ON COMPLETION: