MEDCOM

SRS

Responsible team behind document: Analysts

Important users of this document (Recipient): Mainly for developers and testers

Short content summary: In this document, the analyst team have compiled the first version of the Software Requirements Specification. The SRS gives a description of the system by specifying requirements, interface, use cases and the system architecture.

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1. Introduction

In this segment of the Software Requirement Specification, the purpose of this document will be explained and the scope of the software product will be described.

1.1. Purpose

The purpose of this Software Requirements Specification is to specify the requirements regarding the development of a web application called BICS (Burn Injury Communication System). In this document, the functionalities, interfaces and attributes of the web application will be defined. Some aspects will be explained in depth while some will be specified on a higher level. The Software Requirement Specification will also serve as a guideline while developing the product. This document is mainly targeting the members of the company MedCom and the stakeholders of the company.

1.2. Scope

The product that is being handled in this Software Requirements Specification is called BICS. It is a platform used by hospital employees for sending pictures of burn injuries for further examination by another hospital's employee. The goal of creating this web application is to make it easier for hospital employees to send pictures of burn injuries in a fast and secure way.

To be able to create a case, where the pictures will be attached, the sender needs to be authenticated. The sender simply needs to fill in its contact information and attach at least one picture for creating a case and sending it. The sender can also choose to add more pictures of the burn injury if needed after adding the first picture. When a case has been

created and sent, the sender will receive a case id that can be used for adding or editing information in the case later on.

1.3. Definitions, acronyms and abbreviations

Term	Definition	Prototype element
Sender	A person using the application from any hospital or health center in Sweden.	-
Receiver	A person using the application from Brännskadecentrum at Linköping University Hospital.	-
Start page	The view the sender reaches when he/she enters the page.	A
Start page form	A form that contains the fields “Namn”, “Telefon” and “Email” and the buttons “Bifoga bild” and “Ta bild”.	A.1
Camera mode	A view where the device’s camera is in use and pictures can be taken in the web application.	B
Accept picture mode	A view where the taken picture is shown.	C
Gallery mode	A view where the most recently taken pictures on the device is shown. It has a button to confirm the chosen pictures.	D
Preview mode	A view where all the added information and pictures are displayed.	E
Oauth2 Authentication mode	A view where the sender can choose to	F

	authenticate himself/herself with BankID.	
BankID	A way for the sender to authenticate him- or herself	
Confirmation mode	A view where the sender is informed that the case has been sent.	G
Add info mode	A view where the sender can add more information to the case.	H
More pictures pop up	A pop up containing the buttons “Ta bild” and “Bifoga bild”.	I.1
Double-check pop up	A pop up contain the text “Är du säker?” and the buttons “Ja” and “Nej”	J
Edit sender info pop up	A pop up containing pre-filled fields with name, phone and email, it also contains a save and cancel button.	-
Progress box	A box where the sender is shown what the current step is and how many that are left.	-
Sender information box	A box that contains the case id, name, email and phone information of the sender, it also has an edit button.	E.1, H.1, I.2
Confirmation box	A box containing information that the case has been sent and the case id.	G.1
Picture box	A box where the pictures attached to the case is shown. The box also	H.2

	contains the button “Lägg till flera bilder” (Add more pictures).	
Complementary data form	A form where complementary data can be entered, see appendix 1.	H.3, I.3
Verification form	A form where the case number can be entered, including a button named “Hämta ärende”.	L.1
BICS	Burn Injury Communication System, which is the name of the product.	-
High priority	Means that the requirement is important and should be prioritized during the development of the product.	-
Medium priority	Meaning the requirement will most likely be implemented in the first stages of the product development.	-
Low priority	Requirements with low priority will not be prioritized in the first stage of the development, but will likely be implemented in the end-product.	-

1.4. References

IEEE Std 830-1998

1.5. Overview

This document gives an overall indication of the product in chapter 2. In chapter 3 the specific requirements will be presented.

2. Overall description

2.1. Product perspective

This web application will be used nationwide at hospitals where senders can upload or take pictures and send them to Brännskadecentrum (Burn injury centre) at Linköpings University Hospital. The receivers end consists of the FileCloud server where the pictures can be accessed.

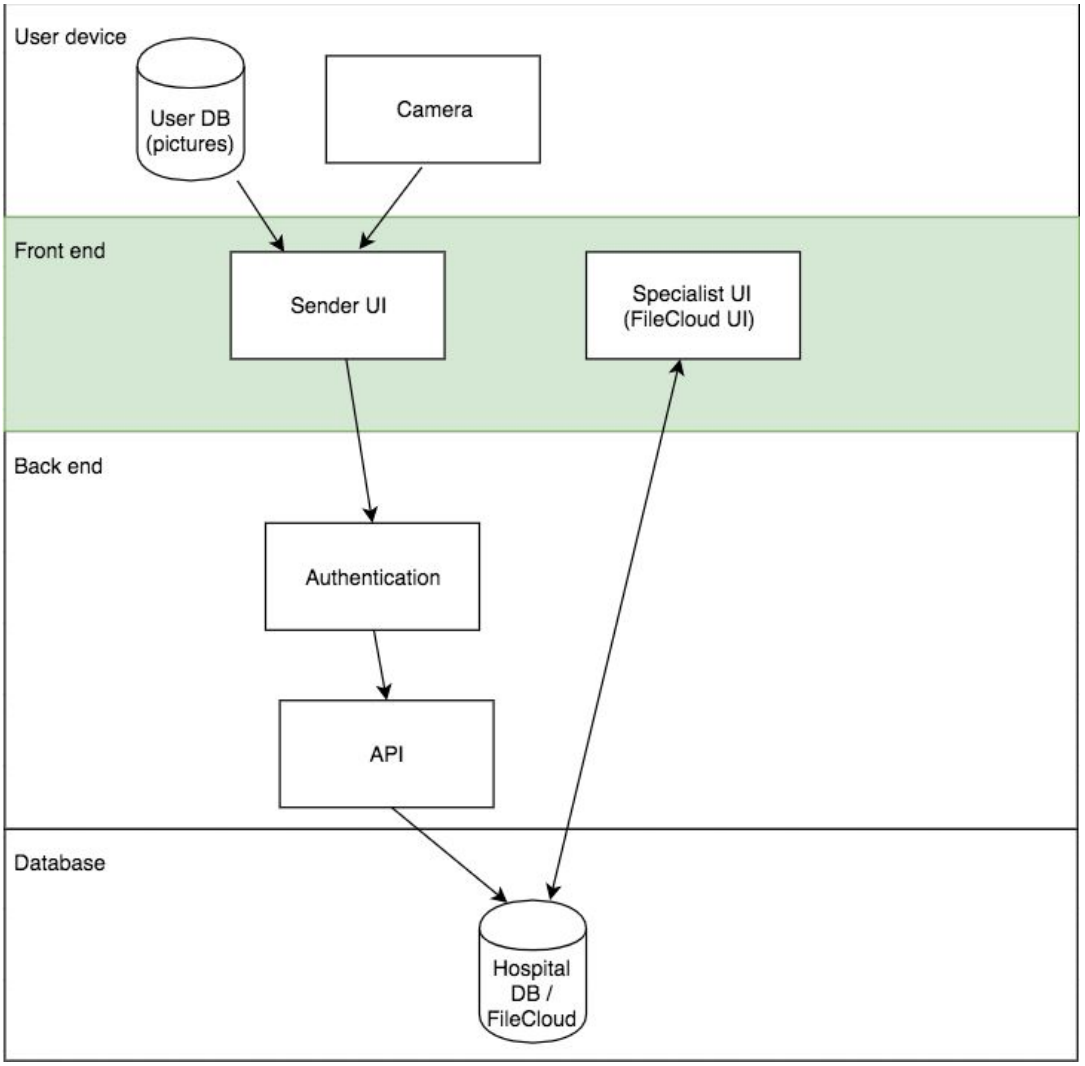

Figure 1: Box-and-line diagram

2.2. Product functions

The functions of the product will be explained further in the use cases below.

2.2.1. Use cases

Use Case 1: Creating and sending a new case with one photo taken
The sender enters the web page through the url and fills in his/her full name, phone number and email. After this the sender clicks on the “Ta bild” (Take picture) button and gets

redirected to the camera mode. In the camera mode the sender takes a picture of a burn damage and then gets directed to the accept picture mode. The sender presses the “Använd bild” (Use picture) button and gets redirected to the preview mode. The sender may here choose to edit information about him/her or add more pictures. The sender chooses to not do this and instead presses the “Skicka ärende” (Send case) button. In the next step the sender has to authenticate himself/herself with Oauth2 with the use of BankID. The sender chooses BankID. When authenticated, the sender gets redirected to the confirmation mode where he/she gets a confirmation that the case has been sent.

Use Case 2: Creating a new case with one photo attached
The sender enters the web page through the url and fills in his/her full name, phone number and email. After this the sender clicks on the “Bifoga bild” (Attach picture) button and gets redirected to the photo gallery. Here the sender chooses to attach the most previously taken photo from the camera and then presses “Använd bild” button. The sender is now redirected to the preview mode.

Use case 3: Taking a new picture from the preview mode on smartphone
The sender is on the preview mode. The preview mode displays the filled in contact information and attached photos. The sender presses the button of the attached photos which says “Lägg till fler bilder” (Add more pictures) and the sender is redirected to the gallery mode and can choose the camera mode for taking a new picture instead. The sender takes a new photo and can then choose to use it or take a new one. If the sender is satisfied with the picture he or she presses that option and the new photos is added and visible in the preview mode.

Use case 4: Attaching a new picture from the preview mode
The sender is on the preview mode. The preview mode displays the filled in contact information, attached photos. The sender presses the bottom of the attached photos which says “Lägg till fler bilder” (Add more pictures). The sender is redirected to the devices photo library. The sender chooses the picture he or she wants to add. After the sender is redirected back to the preview mode with the new photo visible in the photo box.

Use case 5: Adding complementary information to existing case from start page
The sender is on the start page and fills in the case number and presses the button “Hämta ärende” (Get case). The Oauth2 authentication mode is opened and the sender can use BankID to authenticate himself/herself. After authentication the sender is redirected to add more info mode with the complementary data form where the sender can add information to the case. When the sender is done he or she presses the button on the bottom “Spara ärende” (Save case). The case is now saved with the additional information.

Use case 6: Add information to an arrend from the confirmation mode
The sender is in the confirmation mode and the case has been sent. The sender wants to add information and presses the button “Komplettera ärende” (Edit case). The sender is now redirected to the add info mode with the complementary data form. In this page the sender enters additional information about the patient. When the sender is done he or she presses the button on the bottom “Spara ärende”. The case is now saved with the additional information.

Use case 7: Edit sender info in the preview mode
Sender has typed in information, added one or multiple pictures and is now on the preview mode. The sender presses on the edit symbol on the top right corner of the box with the senders contact information. The sender changed the email, and is now satisfied with the case and chooses to send it.

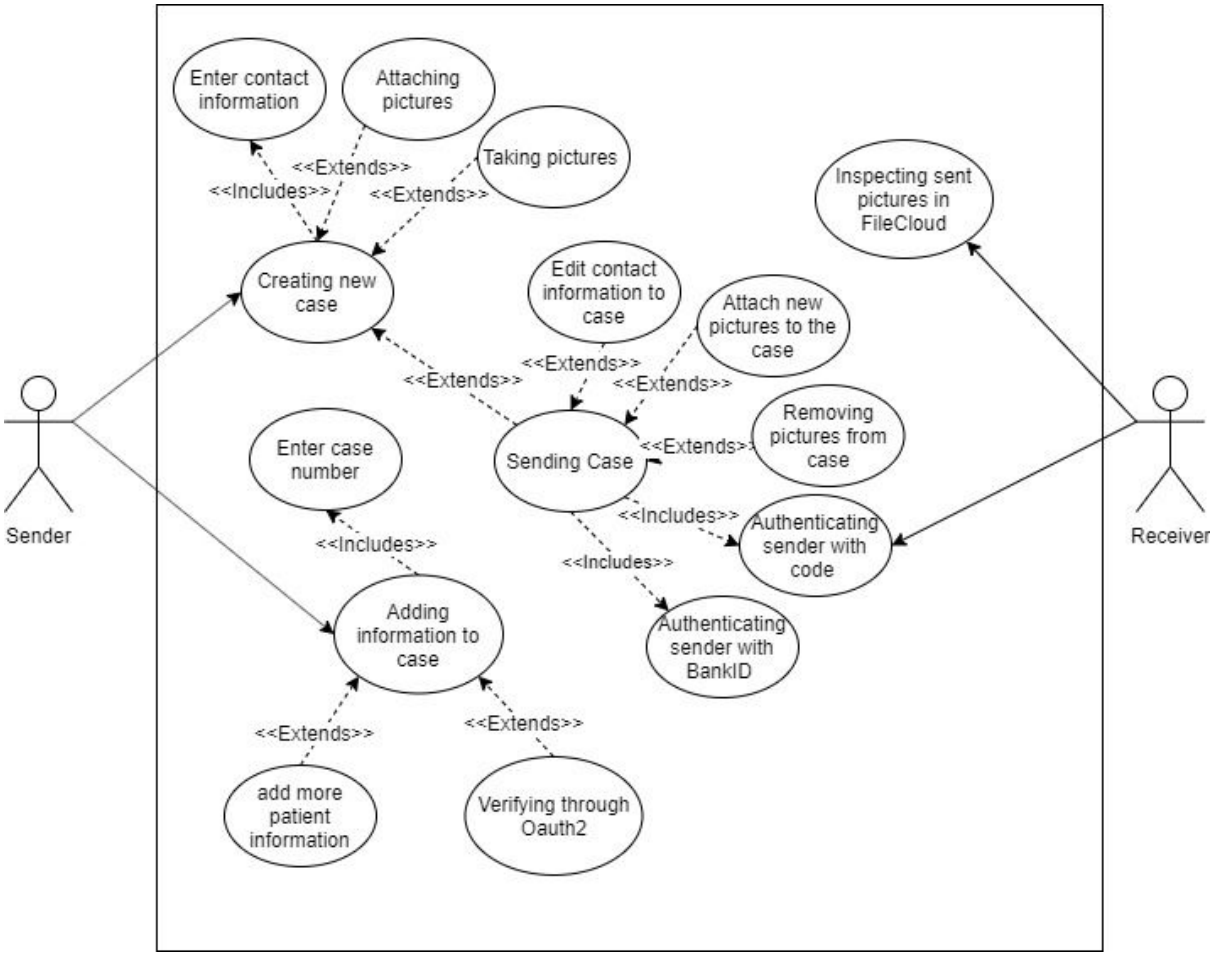

Figure 2: Use Case Diagram

2.3. User characteristics

Sender user: A doctor or nurse at any health center or hospital within Sweden. This user has at least knowledge at C1 level in Swedish and is assumed to have at least a basic knowledge of how to handle a smartphone or computer.

Receiver user: A doctor working at Linköping University's department Brännskadecentrum. This user is assumed to have a good knowledge of how to handle a smartphone or computer and has experience of how to operate the system that they use on a daily basis.

2.4. General constraints

The application will be limited by the FileCloud servers ability to store date, since it has a finite storage capacity.

2.5. Assumptions and dependencies

In this SRS it is assumed that both the Sender and the Receiver has an internet connection. It is also assumed that the Sender and the Receiver has a connection over phone during the entire session.

The sender is assumed to be able to authenticate himself/herself with BankID.

3. Specific requirements

3.1. Interface requirements

3.1.1. User interfaces

UIR1
Description: In the center of the start page, the start page form is displayed.
Source: Product owner

UIR2
Description: The picture box shall be placed in the middle of the page in the preview mode, under the sender information box.
Source: Product owner

UIR3
Description: The header shall contain the logo of the product.
Source: Product owner

UIR4
Description: The start page, preview mode and confirmation mode shall all contain the progress box, which is placed just under the header.
Source: Product owner

UIR5
Description: The sender information box shall be placed under the progress box in the preview mode and contain an edit button.
Source: Product owner

UIR7
Description: The “Skicka ärende” and “Avbryt” (Cancel) buttons shall be placed at the bottom of the preview mode.
Source: Product owner

UIR8

Description: The confirmation box shall be placed under the progress box in the confirmation mode.
Source: Product owner

UIR9
Description: The buttons “Komplettera ärende” and “Tillbaka till startsidan” (Back to start page) shall be placed under the confirmation box in the confirmation mode.
Source: Product owner

UIR10
Description: The sender information box shall be placed underneath the header in the add info mode. In this mode, only the case id will be shown, name, phone and email will not be visible.
Source: Product owner

UIR11
Description: The complementary data form shall be placed in the middle of the add info mode, underneath the sender information box.
Source: Product owner

UIR12
Description: The “Spara ändringar” and “Tillbaka till startsidan” buttons shall be placed underneath the complementary data form in the add info mode.
Source: Product owner

UIR13
Description: The verification form shall be placed at the bottom of the start page.
Source: Product owner

3.1.2. Software interfaces

SIR1
Source: Architects
Description: The front end of the application shall be implemented with Angular, also CSS, TypeScript and HTML5 will be used.

SIR2
Source: Architects
Description: The backend shall consist of Region Östergörlands API’s.

SIR4
Source: Architect
Description: The storing solution shall be FileCloud.

3.1.3. Communication interfaces

CIR1
Description: The sender shall be able to enter the website by writing the website’s URL in the address bar in a web browser.

Source: Product owner

CIR2
Description: The sender shall be able to see all information in a case by clicking on the "Komplettera ärende" button in the confirmation mode immediately after sending a case.
Source: Product owner

CIR3
Description: The web application shall have a connection between front-end and FileCloud.
Source: Product owner

CIR4
Description: The web application shall have a connection between front-end and Region Östergötland's API.
Source: Product owner

3.2. Functional requirements

FR1 Entering the start page
Input: The sender writes the url in the address bar.
Process: The web application processes the request and returns the start page of the web application.
Output: The start page of the web application is displayed.
Source: Product owner
Dependency: None
Priority: High

FR3 Taking a picture
Input: The sender presses the button "Välj Bild" (Choose picture) after typing in contact information.
Process: A prompt appears asking to choose an existing picture or take a new one with the devices camera. the sender chooses to take picture with camera and does so.
Output: The system checks that the form contains a name, phone number and an email. Taken picture is added to the case and the sender can now press the button "Nästa" (next) which will take him or her to the preview mode.
Source: Product owner
Dependency: FR1
Priority: High

FR4 Accepting a picture from the accept picture mode
Input: The sender takes a picture in picture mode.
Process: The sender presses the button "Använd bild" in the accept picture mode.
Output: The picture is added to the case.
Source: Product owner
Dependency: FR3
Priority: High

FR5 Declining a picture from the accept picture mode
Input: The sender presses the button “Ta en ny bild” (Take a new picture) in the accept picture mode.
Process: The current picture is deleted from the case.
Output: The sender is redirected to the camera mode.
Source: Product owner
Dependency: FR3
Priority: High

FR6 Attach pictures
Input: The sender clicks on the “Välj Bild” (Choose picture) button on the start page and then chooses to use an existing picture.
Process: The system checks that the form contains a name, a phone number and an email. If the check is okay the device’s gallery shall be shown in the web application.
Output: The sender is redirected to the gallery mode and a grid of the sender’s recently taken pictures are displayed in the web application.
Source: Product owner
Dependency: FR1, FR7
Priority: High

FR7 Attach or take more pictures
Input: The sender presses the “Lägg till fler bilder” (Add more pictures) button in the preview mode to attach or take new pictures to the same case.
Process: The system displays the more pictures pop up where the sender can choose between attaching more already-existing pictures and taking new pictures.
Output: The sender is redirected to either gallery mode or camera mode, depending on the button pressed.
Source: Product owner
Dependency: FR5
Priority: High

FR8 Selecting pictures
Input: The sender marks the pictures he/she wants to add to the case in the gallery mode.
Process: The sender presses the “Använd bild” button.
Output: The picture is added to the case.
Source: Product owner
Dependency: FR6
Priority: Medium

FR9 Authentication of the sender
Input: The sender presses the “Skicka ärende” button in the preview mode.
Process: If at least one picture is attached to the case and a name, phone number and mail is added, the sender is redirected to the Oauth2 Authentication mode. In this mode the sender chooses to aithenticate himself/herself with BankID.
Output: The system gets a verification that the sender is authenticated.
Source: Region Östergötland
Dependency: FR8, FR4

Priority: High

FR10 Sending a case and generating case id
Input: The system gets a verification that the sender is authenticated.
Process: The sender is authenticated and the case is given a unique case id and stamped with a creation date and time. The case shall be sent to the web application's server, FileCloud.
Output: The sender is redirected to the confirmation mode with the case id displayed.
Source: Product owner
Dependency: FR9
Priority: High

FR11 Delete a picture
Input: The sender presses the delete button in the corner on one of the pictures in the Picture box and then presses the "Ja" (Yes) button on the double check pop up.
Process: The picture is deleted from the case and from the web application.
Output: The picture is not in the Picture box anymore.
Source: Product owner
Dependency: FR8, FR4
Priority: High

FR13 Edit sender information
Input: The sender presses the edit button on the sender information box.
Process: The edit sender info pop up is displayed and the sender changes the information he/she desires and presses save.
Output: The sender info is updated and shown in the preview mode.
Source: Product owner
Dependency: FR4, FR8
Priority: Medium

FR14 Aborting a case in the preview mode
Input: The sender presses the "Avbryt" button in the preview mode.
Process: The double check pop up appears and the sender presses the "Ja" (Yes) button. The case is deleted and the sender is redirected to the start page.
Output: The sender is redirected to the start page.
Source: Product owner
Dependency: FR4, FR8
Priority: High

FR15 Returning to the start page from the confirmation mode or the add info mode
Input: The sender presses the "Tillbaka till startsidan" button in the confirmation mode.
Process: The system redirects the sender to the start page.
Output: The sender is redirected to the startpage.
Source: Product owner
Dependency: FR4, FR8, FR10
Priority: Medium

FR16 Entering the add info mode from confirmation mode

Input: The sender presses the “Komplettera ärende” button in the confirmation mode.
Process: The web application displays the add info mode.
Output: The sender is redirected to the add info mode.
Source: Product owner
Dependency: FR10
Priority: Medium

FR17 Saving changes in the add info mode
Input: The sender presses the “Spara ändringar” button in the add info mode.
Process: If the complementary data form is correctly filled in, this data will be sent to the server.
Output: The sender is redirected to the confirmation mode.
Source: Product owner
Dependency: FR16
Priority: Medium

FR18 Entering the add info mode from the start page
Input: The sender fills in the case id and presses the “Hämta ärende” button in the verification form on the start page.
Process: The system checks that the verification form is filled in correctly and if so, the sender is redirected to the Oauth2 Authentication mode. In this mode the sender authenticates himself/herself BankID
Output: The sender is redirected to the add info mode with the complementary data form.
Source: Product owner
Dependency: FR1
Priority: Medium

3.3. Performance requirements

PR1 System language
The language of the system shall be Swedish.

PR2 Single page application
The application shall be single paged

PR3 Device availability
The webpage shall be available on tablet, smartphone and PC. And the system for receiving cases shall also be available on these devices.

PR4 Supported pictures
The sender shall be able to attach JPEG, PNG and TIF file types to the case.

PR5 Supported browsers
The application shall be supported in the browsers Google Chrome, Safari, Microsoft Edge and FireFox.

PR6 Number of pictures

The number pictures attached to each case can not be more than 6.

PR7 File size maximum

The size of every picture shall not exceed 15 Megabytes.

PR8 File size minimum

The size of every picture must exceed 0,1 Megabytes.

3.3.1. Response time

The time it takes form that the sender has been authenticated by the system until the case has been sent and a confirmation has been shown in the confirmation mode shall not exceed 15 seconds.

3.4. Design constraints

ID: DC1
Source: Product owner
Description: It shall only be possible to take photos from a Smartphone, not a PC.

3.5. Software system attributes

3.5.1. Availability

ID: SSAR2
Source: Product owner
Description: A sender shall only be able supplement a case within a configurable time (e.g. 24 hours) after its creation, after this it shall not be possible to retrieve it from FileCloud.

3.6. Other requirements

The pictures that have been taken in the web application shall not be stored on the senders device after the session with the web page is closed.

The application shall meet the WCAG 2.1 AA-level (see Appendix 2).

4. Supporting information

4.1. Appendices

4.1.1. Appendix 1: Checklista - initial behandling samt transport (Initial treatment and transportation)

Brännskadecentrum
Universitetssjukhuset, 581 85 Linköping

Tel: +46 (0)10 – 103 11 54
Fax: +46 (0)10 – 103 37 05

Checklista - initial behandling samt transport

Använd denna checklista under det akuta omhändertagandet och faxa sedan till Brännskadecentrum när patienten lämnar avdelningen. Om någon av de rutor som är skuggade är markerade bör ytterligare diskussion tas med brännskadejour INNAN patienten skickas.

	JA	NEJ
Har patienten en kroppstemperatur >36° C?		
Är arteriellt pO2 >10 kPa?		
Är systoliskt blodtryck >90 mm HG?		
Har traumaröntgen eller andra undersökningar gjorts?		
Är prover tagna för etanol eller annan toxikologi?		
Är patienten vid medvetande?		
Om patienten är eller har varit medvetslös – har analys av COHb gjorts?		
Är patienten intuberad?		
Vilka läkemedel är pågående?		
Har patienten:		
Två säkra venösa infarter? Alternativt CVK?		
Artärnål?		
KAD & mätning av timdiures?		
Ventrikelsond?		
Pågår vätskebehandling enligt Parklands formel?		
Finns uppgift på vikt och längd?		
Hur mycket vätska har infunderats innan avfärd?		
Hur stor totaldiures har patienten haft till klockan .....? ..... ml		
Har patienten fått Tetanusvaccination?		
Är patienten bandaderad med salvkompressförband (t.ex. Jelonet) eller torra, rena kompresser?		
Har brännskadade händer och huvud högläge?		
Har eskarotomi gjorts vid cirkulära skador efter samverkan med brännskadejour?		
Är köldskador polstrade?		

Bifoga aktuell medicinlista, journalkopior, röntgensvar och laboratorievärden.

Hur ska patienten transporteras?_____

Förväntad ankomstid till Brännskadecentrum i Linköping? Datum _____Tid _____

http://vardgivarwebb.regionostergotland.se/brannskadecentrum

Region Östergötland

4.1.2. Appendix 2: A/AA-requirements

In the table below, the relevant requirements for this project from Region Östergötland's framework for AA-level are presented. The requirements from Region Östergötland are based on the WCAG 2.1 (Web Content Accessibility Guideline).

ID	A/AA-level	Guideline	Description	Principle
1.3 Adaptable				
1.3.1	A	Info and relationships	Information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text.	Possible to interpret
1.3.2	A	Meaningful sequence	When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined.	Possible to interpret
1.3.3	A	Sensory features	Instructions provided for understanding and operating content do not rely solely on sensory characteristics of components such as shape, color, size, visual location, orientation, or sound.	Possible to interpret
1.3.4	AA	Orientation	Content does not restrict its view and operation to a single display orientation, such as portrait or landscape, unless a specific display orientation is essential.	Possible to interpret
1.3.5	AA	Explain the purpose of input field	Use HTML 5.2 autocomplete to identify the purpose of an input field.	Possible to interpret
1.4 Distinguishable				
1.4.1	A	Use of color	Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Possible to interpret
1.4.3	AA	Contrast (minimum)	The visual presentation of text and images of text has a contrast ratio of at least 4.5:1. Large-scale text and images of large-scale text have a contrast ratio	Possible to interpret

			of at least 3:1. It is recommended that the user him- or herself can increase and lower the contrast, or choose a dark background with a light foreground.	
1.4.4	AA	Resize text	Except for captions and images of text, text can be resized without assistive technology up to 200 percent without loss of content or functionality.	Possible to interpret
1.4.5	AA	Images of text	Use text instead of images of text. An exception is for example the logotype.	Possible to interpret
1.4.10	AA	Reflow	Content can be presented without loss of information or functionality, and without requiring scrolling in two dimensions for width = 320 CSS pixels and height = 256 CSS pixels. Exceptions are for example maps and diagrams.	Possible to interpret
1.4.11	AA	Non-text contrast	The visual presentation of the following have a contrast ratio of at least 3:1 against adjacent color(s).	Possible to interpret
1.4.12	AA	Text spacing	Make sure it is possible to increase the spacing between characters, words, lines and paragraphs. ● Line height (line spacing) to at least 1.5 times the font size; ● Spacing following paragraphs to at least 2 times the font size; ● Letter spacing (tracking) to at least 0.12 times the font size; ● Word spacing to at least 0.16 times the font size.	Possible to interpret
1.4.13	AA	Non-modal pop-ups	Facilitate the process to manage and close elements which are shown on hover and focus.	Possible to interpret
2.2 Enough time				
2.2.1	A	Timing adjustable	For each time limit that is set by the content, offer at least one of the following options: ● Turn off the time limit ● Adjust the time limit	Manageable

			● Extend the time limit	
2.3 Seizures and Physical Reactions				
2.3.1	A	Three flashes or below threshold	Web pages do not contain anything that flashes more than three times in any one second period, or the flash is below the general flash and red flash thresholds.	Manageable
2.4 Navigable				
2.4.1	A	Bypass blocks	A mechanism is available to bypass blocks of content that are repeated on multiple webpages.	Manageable
2.4.2	A	Page titled	Web pages have titles that describe topic or purpose.	Manageable
2.4.3	A	Focus order	Create a logical sequential order when using the tab-button on a keyboard.	Manageable
2.4.4	A	Link purpose	Links should be clearly written or described with link text so that its purpose is explicit.	Manageable
2.4.6	AA	Headings and labels	Write explicit headings and labels to present what content there is in a page and how the information is organised.	Manageable
2.4.7	AA	Focus visible	Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible.	Manageable
2.5 Input modalities				
2.5.2	A	Pointer cancellation	For functionality that can be operated using a single pointer, offer at least one of the following options: ● **No down-event:** The down-event of the pointer is not used to execute any part of the function ● **Abort or undo:** Completion of the function is on the up-event, and a mechanism is available to abort the function	Manageable

			before completion or to undo the function after completion ● **Up reversal:** The up-event reverses any outcome of the preceding down-event	
2.5.3	A	Label and object name	An object shall have the same name as its label.	Manageable
3.1 Readable				
3.1.1	A	Language of page	Enter the standard language of the webpage in HTML with lang.	Understandable
3.1.2	AA	Languages for parts of text	Specify the language for paragraphs, meanings and in some cases solitary words which are not included in the standard language of the website. Use lang.	Understandable
3.2 Predictable				
3.2.1	A	Events on focus	Do not execute any unexpected events when focusing.	Understandable
3.2.2	A	Events on input	Do not execute any unexpected events on input. If an event will be triggered on input, the user shall be informed in advance.	
3.2.3	AA	Consistent navigation	Navigational mechanisms that are repeated on multiple webpages within a set of webpages occur in the same relative order each time they are repeated.	Understandable
3.2.4	AA	Consistent identification	Components that have the same functionality within a set of Web pages are identified consistently.	Understandable
3.3 Input assistance				
3.3.1	A	Error identification	If an input error is automatically detected, the item that is in error is identified and the error is described to the user in text.	Understandable
3.3.2	A	Labels or instructions	Write labels or instructions which explicitly describe what and which	Understandable

			format the system is expecting as input. Write as much as necessary, but not more than that. Make the label or instruction clickable, so the connected input field is in focus.	
3.3.3	AA	Error suggestion	If an input error is automatically detected and suggestions for correction are known, then the suggestions are provided to the user, unless it would jeopardize the security or purpose of the content.	Understandable
4.1 Compatible				
4.1.1	A	Parsing	In content implemented using markup languages, elements have complete start and end tags, elements are nested according to their specifications, elements do not contain duplicate attributes, and any IDs are unique, except where the specifications allow these features.	Robust
4.1.2	A	Name, role, value	For all user interface components (including but not limited to: form elements, links and components generated by scripts), the name and role can be programmatically determined; states, properties, and values that can be set by the user can be programmatically set; and notification of changes to these items is available to user agents, including assistive technologies.	Robust
4.1.3	AA	Status messages	In content implemented using markup languages, status messages can be programmatically determined through role or properties such that they can be presented to the user by assistive technologies without receiving focus.	Robust