

User and Administrator Manual: Adult Hospital-Level STGs and EML Android Smartphone / Web Platform Application



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ACRONYMS AND ABBREVIATIONS

APK	Android application package file
CPU	central processing unit
EML	Essential Medicines List
GHz	gigahertz
IT	information technology
LAN	local area network
MB	megabytes
MHz	megahertz
NDP	National Drug Policy
NEDP	National Essential Drugs Programme
OS	operating system
RAM	random-access memory
STGs	standard treatment guidelines
URL	uniform resource locator
Wi-Fi	wireless fidelity

DEFINITIONS

Android application package file (APK): The file format used to distribute and install application software and middleware onto Google's Android operating system.

Android operating system (AOS): A system based on the Linux kernel, and designed primarily for touchscreen mobile devices such as smartphones and tablet computers.

Central processing unit (CPU): The part of a computer that performs logical and arithmetical operations on the data.

Database: Collection of data or information organised for rapid search and retrieval, especially by a computer. Databases are structured to facilitate storage, retrieval, modification, and deletion of data in conjunction with various data-processing operations. A database consists of a file or set of files that can be broken down into records, each of which consists of one or more fields. Fields are the basic units of data storage.

Gigahertz (GHz) (mathematics and measurements / units): A unit of frequency equal to 10^9 hertz. Symbol **GHz**.

Local area network (LAN): A computer network that interconnects computers in a limited area such as a home, school, computer laboratory, or office building using network media.

Megabyte (MB): A unit of computer memory or data storage capacity equal to 1,048,576 bytes.

Megahertz (MHz) (mathematics and measurements / units): One million hertz; one million cycles per second. Symbol **MHz**. Former name **megacycle**.

Operating system (OS): A computer programme that manages the resources of a computer. It accepts keyboard or mouse inputs from users and displays the results of the actions and allows the user to run applications, and communicate with other computers via networked connections.

Random-access memory (RAM): A form of computer data storage. A random-access device allows stored data to be accessed directly in any random order.

Uniform resource locator (URL): The global address of documents and other resources on the World Wide Web.

Wireless fidelity (Wi-Fi): A facility allowing computers, smartphones, or other devices to connect to the Internet or communicate with one another wirelessly within a particular area.

INTRODUCTION

The South African National Drug Policy (NDP) aims to provide equal access to medicines for all South Africans through the National Essential Drugs Programme (NEDP), which includes the Essential Medicines List (EML) and Standard Treatment Guidelines (STGs).

The concept of the EML and STGs supports the need to reflect new therapeutic options and changing therapeutic needs through regular updates, and to ensure good prescribing and dispensing practices.

The Android smartphone application for the Adult Hospital-Level STGs and EML is intended to assist prescribers and dispensers in making informed decisions through easy, user-friendly access to the latest version of the Adult Hospital-Level STGs and EML.

The application enables the user to scroll through the STGs and EML and automatically receive updates and new versions. The application is available on Android smartphone and on a Web platform, both using the same database backend. The application itself includes the database backend, the auto updater, and the content of the Adult Hospital-Level STGs and EML.

The User and Administrator Manual: Adult Hospital-Level STGs and EML Android Smartphone / Web Platform Application consists of two sections:

- **User section:** provides instructions on how to configure your smartphone to run the Android application package file (APK) application
- **Administrator section:** provides instructions related to the maintenance of the backend database

USER SECTION: INSTALLING AND NAVIGATING THE APPLICATION

I. Downloading the Application

a) Smartphone Requirements

- Android operating system: version 2.3–4.0 and higher
- Processor/CPU: 600–800 MHz or higher
- Random-access memory (RAM): at least 512 MB free space
- Connectivity: Wi-Fi or mobile data to access the Internet

b) Steps to Follow When Downloading the Application for the First Time

The Android application is bundled together in one executable APK. The executable file must be saved and run on a smartphone.

Note: The APK file is 1.4 MB in size; the file must be saved on the phone before it can be executed. The IT administrator may help with the initial setup on the phone. To install, run, and access the Guidelines from the APK executable file:

1. Download the executable file (**setup.exe**) from the Department of Health Resource Centre at www.eml.health.gov.za.
2. Install the executable file at the desired location on the phone. (You will first need to allow the installation of non-market apps in the system settings of the phone.)
3. Once the executable file is installed:
 - Select > **Main programme menu of the Android phone**
 - Then click > **Treatment Guidelines icon**

When the application runs for the first time, it will start downloading the book (STGs) onto the phone (figure 1). The window that appears after launching the application is shown in figure 2. The first page that appears is the front page of the STGs and below it is a green band with an arrow and the word **Continue**.

- Click > **Continue**. The next page shows the table of contents of the Guidelines.

N.B.: Only the IT manager / administrator has access or privileges on the database backend server for any update, security, backup, and maintenance.

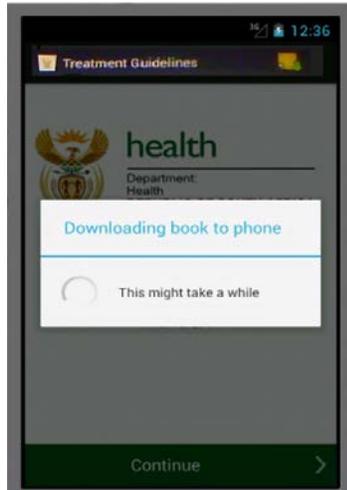


Figure 1



Figure 2

c) Steps to Follow for Manually Downloading Updates to a Phone

An update is a higher and revised version of the data content, resulting from any change made to the database backend, editing, or new content added to the site. This step will apply to the smartphone application when a new version of the content is available.

The Android application enables the user to view contents offline even in the absence of an Internet connection as long as the installation has been completed and updated on the phone.

The smartphone application will by default automatically download the available updates; alternatively the user can manually download the updates.

N.B.: To download updates, the phone must have access to the Internet.

1. Go to the main menu of the smartphone.
2. Click on the yellow update icon for the *Treatment Guidelines* appearing on the main menu of the phone (figure 3).
3. Once the yellow update icon is clicked, it forces the application to manually run an update check for any new version available via an online connection to the Web server hosting the backend database file.

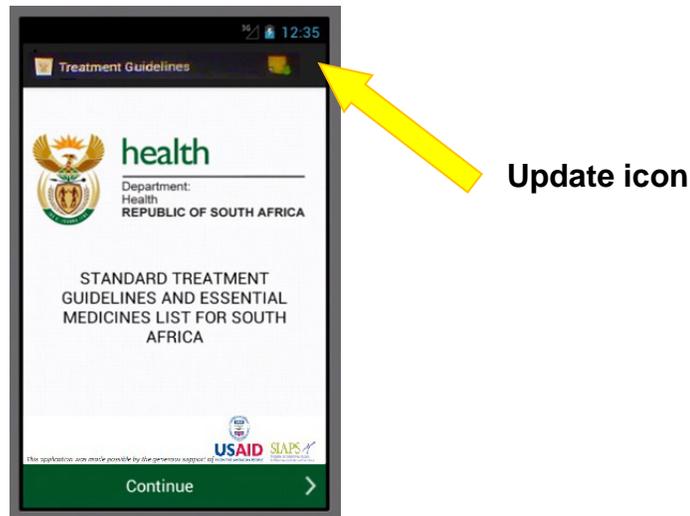


Figure 3

II. Navigating the Application

a) Content of the Application

The content and structure of the Adult Hospital-Level STGs and EML Android Smartphone / Web Platform application mirror the Adult Hospital-Level STGs and EML book.

Electronic features have been added to the application to improve the experience of the user without tampering with the content. The chapters, subchapters, conditions, and medicines index are hyperlinked for easier navigation through the STGs.

Table of contents for the application:

- i. Foreword
- ii. Introduction
- iii. Acknowledgements
- iv. The Essential Medicines Concept
- v. How to Use the Adult Hospital-Level STGs and EML
- vi. A Guide to Patient Adherence in Chronic Conditions
- vii. Chapters 1–21
- viii. Guidelines for the Motivation of a New Medicine on the National EML
- ix. Guidelines for Adverse Drug Reaction Reporting
- x. Medicine Index

b) How to Collapse and Expand Chapter/Subchapter Data Content on the Phone

The table of contents of the application (on the right-hand side of the phone page) is collapsible and expandable. Subchapters will appear when a chapter is expanded.

- To collapse or expand a chapter/subchapter, the user should click on any of the content listed on the *Treatment Guidelines* menu of the phone.

For example, click on **Foreword** to expand the content, and then click again to collapse the visible content; the content is then wrapped in with only the title visible.

- Chapters expand when clicked on, making the list of subchapters visible.
- Subchapters expand when clicked on, making the following list of headers visible:
 1. DESCRIPTION
 2. GENERAL MEASURES
 3. MEDICINE TREATMENT
 4. REFERRAL
- Clicking on any of these headers will reveal its content.

A Step-by-Step Example

Step 1: Click on any desired chapter, e.g., **CHAPTER 1 – ALIMENTARY TRACT**, and the chapter expands to show the subchapters below in step 2 (figure 4).

Step 2: Click on subchapter **1.1 GASTROINTESTINAL**, and this will also expand to show the subchapter contents. Each subchapter's content will expand to show all wrapped contents (figure 5).

Step 3: Click on the header **DESCRIPTION**, now all content is shown; if we click on the header **DESCRIPTION** again, the information is collapsed (figure 6).

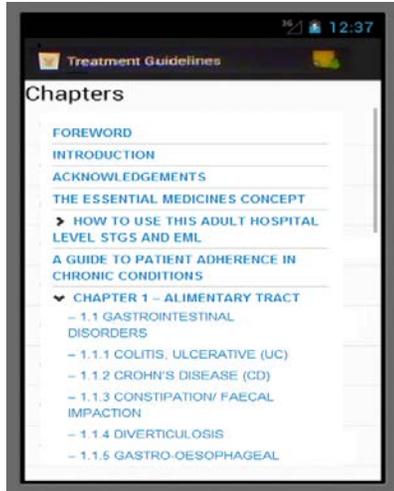


Figure 4

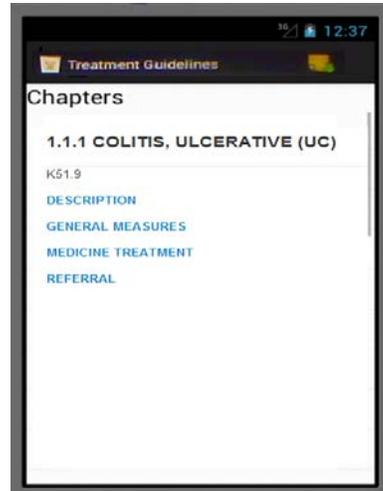


Figure 5

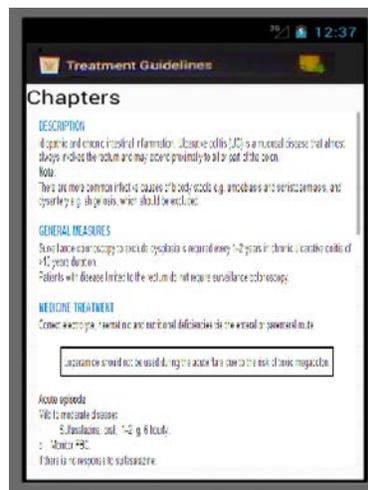


Figure 6

c) Smartphone and Web-Based Platform: Similarities and Differences

The Android smartphone and Web-based applications both use the same database backend. The content is html-based; therefore, any Web browser will be compatible with the system. The URL for the Web browser is <http://doh.gov.za/>. The user can either use a phone configured to run the application directly or the Web browser to view data contents with the provided URL. (Note that the browser window is read-only).

The only differences between the two applications are as follows:

1. **Web application:** This is based on an html format and operates on a Windows or Linux platform; it hosts the database for the data content. The Web application allows updates for newer versions to be installed since the database backend sits on it. Any database change is made to the Web-based application, and navigation is completed in the same manner as on the smartphone, except that

with the Web-based application the view is wider (since the screen is also wider), and as a result the user is able to see both chapters on the left pane as well as the subchapter contents on the right-hand side pane. Both applications have a common factor; they share the same database backend for the data information.

2. **Smartphone application:** This is based on the Android OS; the smartphone application depends on the Web application for updates. Navigation through the content is the same as with the Web-based application, except for the different view of the contents. The smartphone allows for a single panel view. Once the application has been launched, the default panel is the Chapters panel (figure 7), which shows the entire list of all chapters. If any chapter is clicked, it expands to view the subchapter from the Web application. Once the subchapter is clicked, a new window opens up under the same subchapter content as a new single pane view.

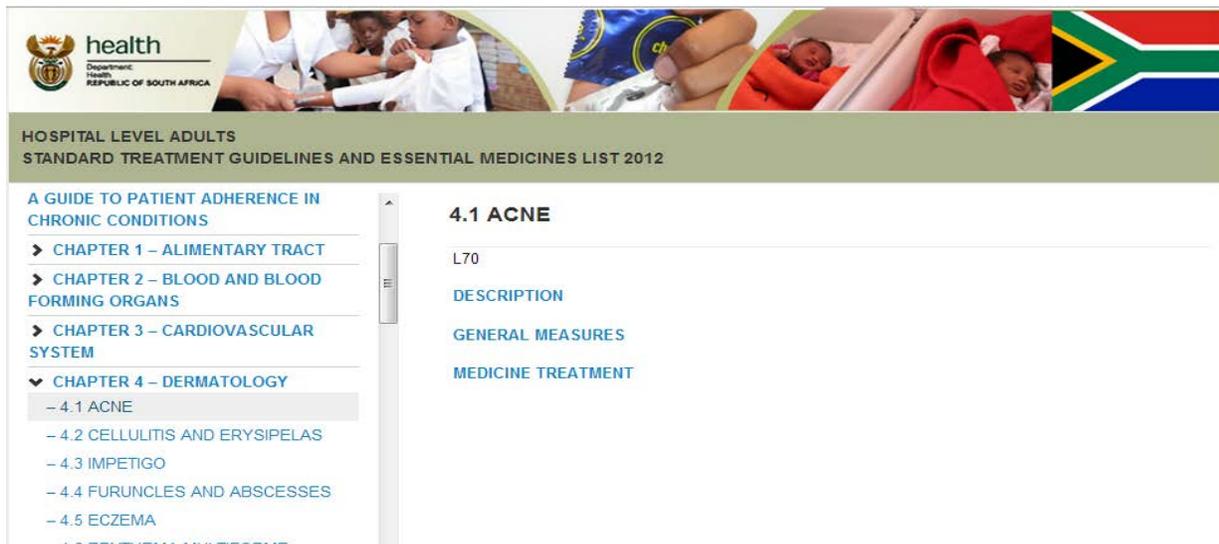


Figure 7. www.eml.health.gov.za.

ADMINISTRATOR SECTION: MAINTENANCE OF BACKEND DATABASE

I. Login as Administrator

The IT administrator should have full access or privileges on the database backend server for any update, security, backup, and maintenance.

The step-by-step login:

1. To log in to the backend database server > Click the website link (URL) to view the local Web link (figure 8).

There are two tabs available on the page:

- i. Home
 - ii. Login
2. Click the login tab, and a login page will appear prompting for login credentials on the two fields (figure 9):
 - i. User name
 - ii. Password



Figure 8

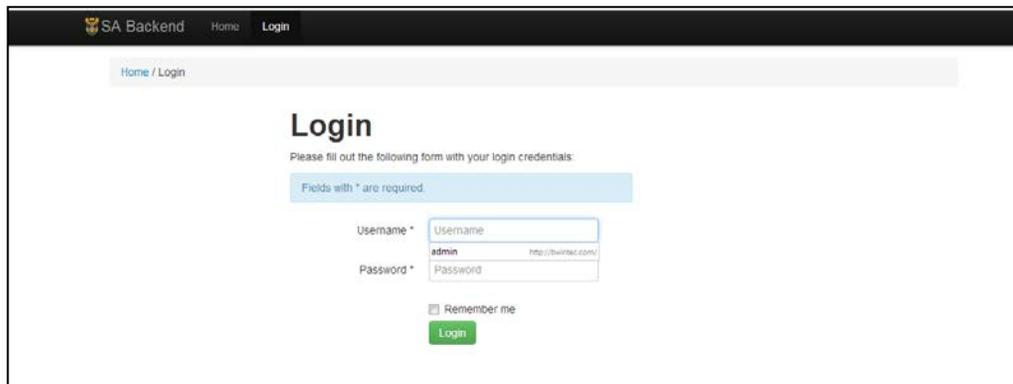
The screenshot shows the 'Login' page. It has a navigation bar with 'SA Backend', 'Home', and 'Login'. Below the navigation bar is a breadcrumb 'Home / Login'. The main heading is 'Login'. Below the heading is the instruction 'Please fill out the following form with your login credentials:'. A blue box contains the text 'Fields with * are required.'. There are two input fields: 'Username *' with the value 'admin' and 'Password *' with the value 'Password'. Below the password field is a checkbox for 'Remember me'. At the bottom is a green 'Login' button.

Figure 9

II. Managing Users on a Web Server

The IT manager/systems/administrator should determine which users will have access to this application, and how many users should have full privileges to the database backend by adding a user name and password for each user. On the database backend page, the IT administrator must log in to have access to all resources of the URL.

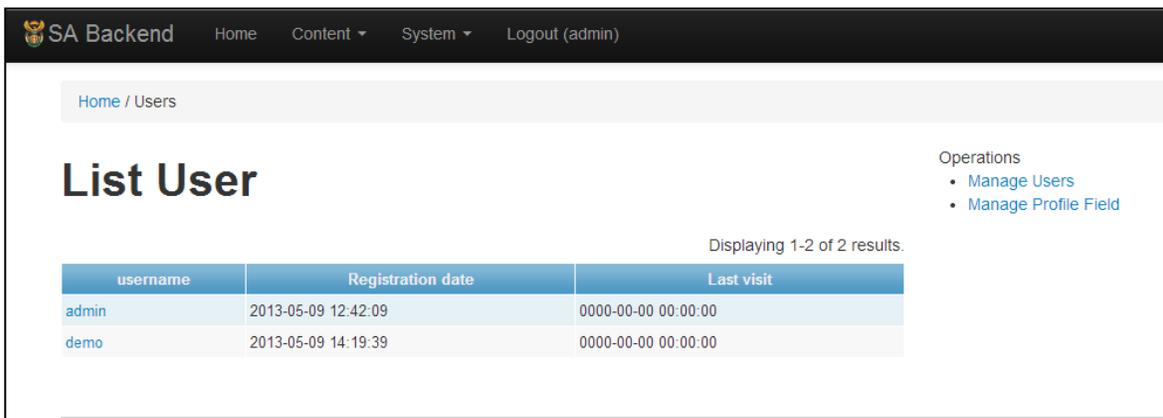
- Log in as IT administrator
- Then Click > **System > User**

Figure 10 shows the page where the IT administrator can add or delete users.

a) To Add a User:

- Click on > **Operations**
- Then click > **Manage Users** (figure 11)
- Then click > **Create user** (figure 12). A page with the following fields appears:
 - 1) The user name
 - 2) Password
 - 3) E-mail
 - 4) Super user name
 - 5) Status
 - 6) First name
 - 7) Last name
- Click on > **Create**

The IT administrator must notify users granted access to the Web server database of their user name and password before they can access the backend database screen and features on the server.



The screenshot shows the 'List User' page in the SA Backend system. The page header includes 'SA Backend' and navigation links for 'Home', 'Content', 'System', and 'Logout (admin)'. The breadcrumb trail is 'Home / Users'. The main heading is 'List User'. On the right side, there are 'Operations' links: 'Manage Users' and 'Manage Profile Field'. Below the heading, it says 'Displaying 1-2 of 2 results.' A table with three columns is shown: 'username', 'Registration date', and 'Last visit'. The table contains two rows of data.

username	Registration date	Last visit
admin	2013-05-09 12:42:09	0000-00-00 00:00:00
demo	2013-05-09 14:19:39	0000-00-00 00:00:00

Figure 10

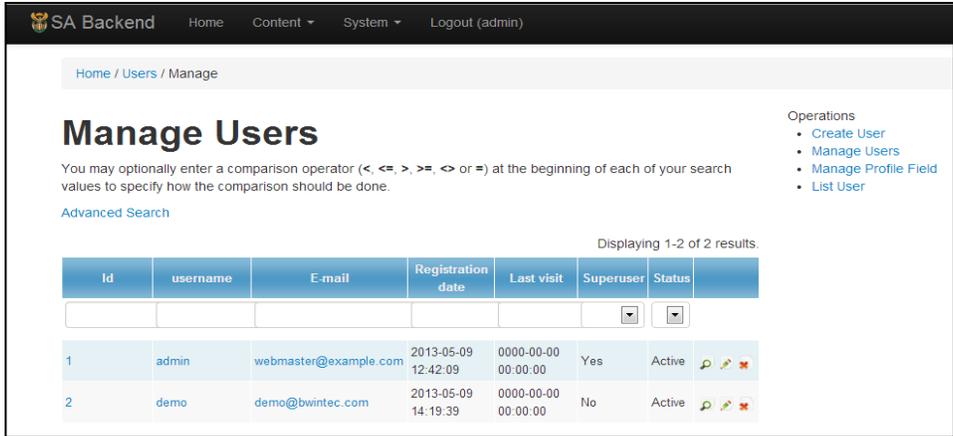


Figure 11

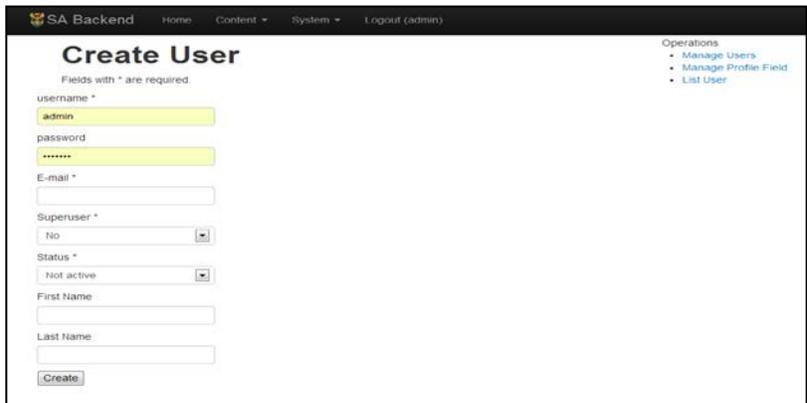


Figure 12

b) To Delete a User

The IT administrator can delete users from the system to deny any access to the Web server database backend application. To do so, the IT administrator simply goes to the **Manage Users** option and then clicks the delete symbol  as shown in figure 13.

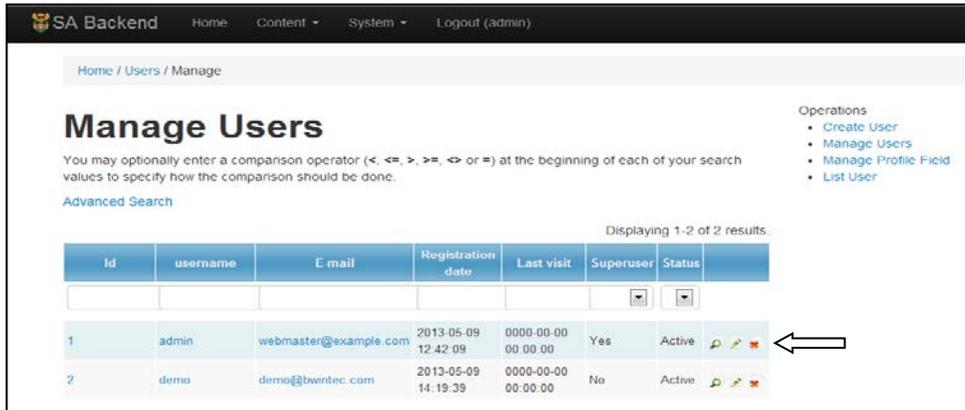


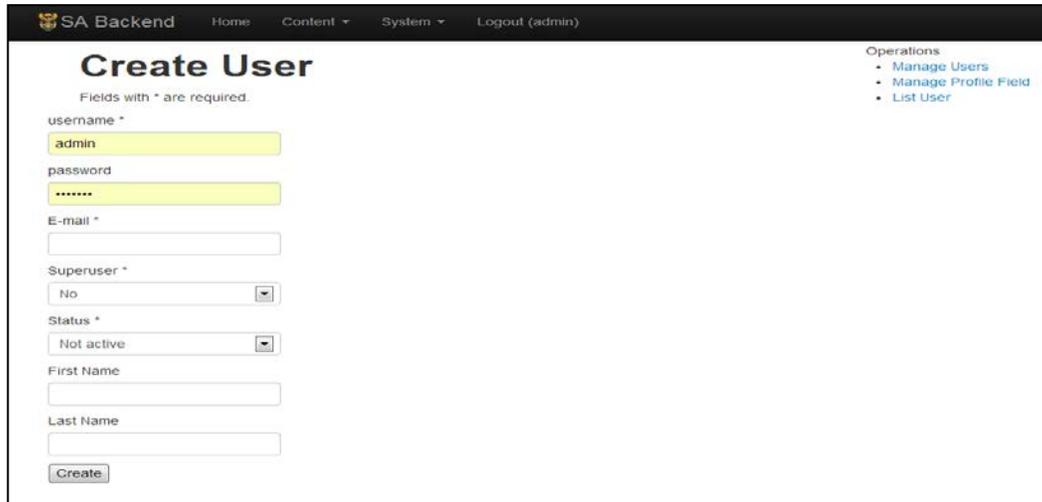
Figure 13

III. Changing Administrator's Password

The IT administrator can change the password to any authorised account profile allowed to access the database backend application configuration page.

The default administrator user name is “admin” and the default password is “password”.

Figure 14 shows the password configuration page below, on the **Create User** page.



The screenshot displays the 'Create User' page in the SA Backend application. The page header includes 'SA Backend', 'Home', 'Content', 'System', and 'Logout (admin)'. The main heading is 'Create User', with a note that 'Fields with * are required.' The form contains the following fields: 'username *' (containing 'admin'), 'password' (masked with dots), 'E-mail *', 'Superuser *' (dropdown menu set to 'No'), 'Status *' (dropdown menu set to 'Not active'), 'First Name', and 'Last Name'. A 'Create' button is located at the bottom of the form. On the right side, there is a sidebar with 'Operations' and a list of links: 'Manage Users', 'Manage Profile Field', and 'List User'.

Figure 14. Create user view

IV. Configuring a User's Phone

To configure a user's phone, the phone must have the APK file downloaded on it and installed. During installation, a notification message may pop up to allow or disallow any third-party software installation. In such an instance, the user must allow for the application to run. The phone's Wi-Fi must be enabled or allow for mobile data packets to access the Internet. The phone application has been designed by default to point to the application's Web page URL respectively for data synchronisation. Users will then connect to the application when they click the **Application** key or icon (or select the **Application** feature item icon) on the phone menu, which shows the name *Treatment Guidelines*. To perform any updates on the phone, the Internet must be available.

V. Managing Database Content

All book content is saved in the database in html format.

a) Viewing Chapters

On the **Chapters** page, you will see the page laid out as shown in figure 15.

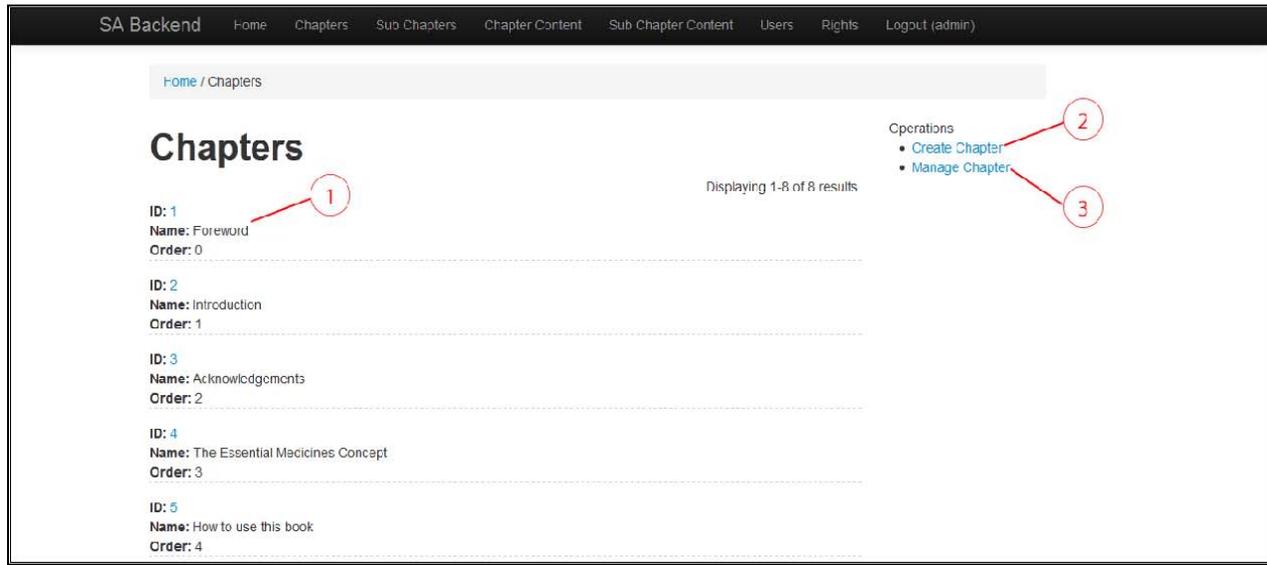


Figure 15

1. The chapter ID, name, and order for each chapter is listed on the left side of the screen.
2. To create a chapter click the **Create Chapter** link.
3. Under **Manage Chapters**, you will find all chapters listed in a table with icons to view, edit, or delete the chapter, together with other information that is excluded from the list view (figure 16).

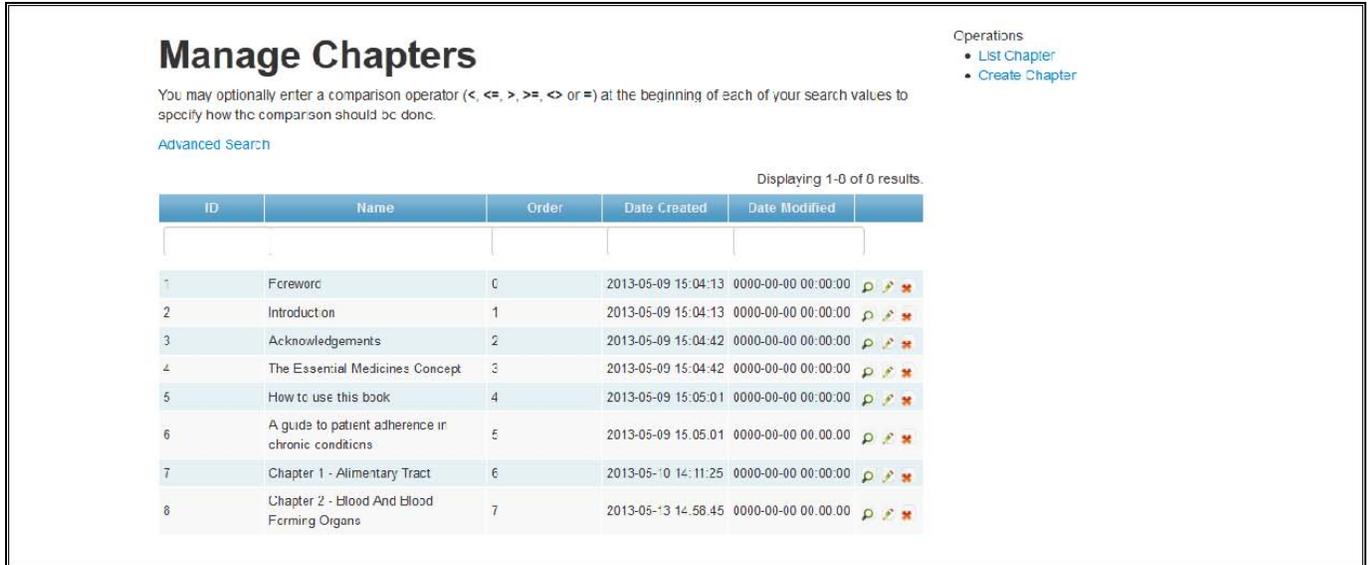


Figure 16

b) Creating a Chapter

To create a chapter, enter the Chapter name and the order in which it should show up on the menu in the Web / Android application, then click **Create** (figure 17).

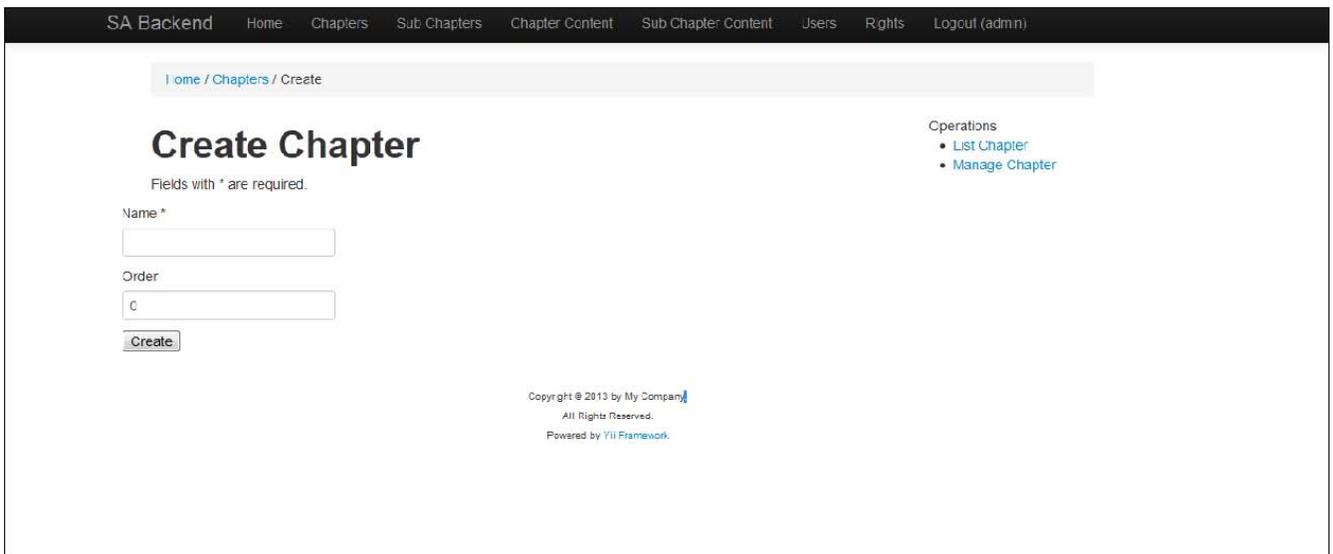


Figure 17. Creating chapters

c) Editing a Chapter

To edit a chapter, from the **List** view, click on the chapter ID, which will bring up the **Chapter** view (figure 18).

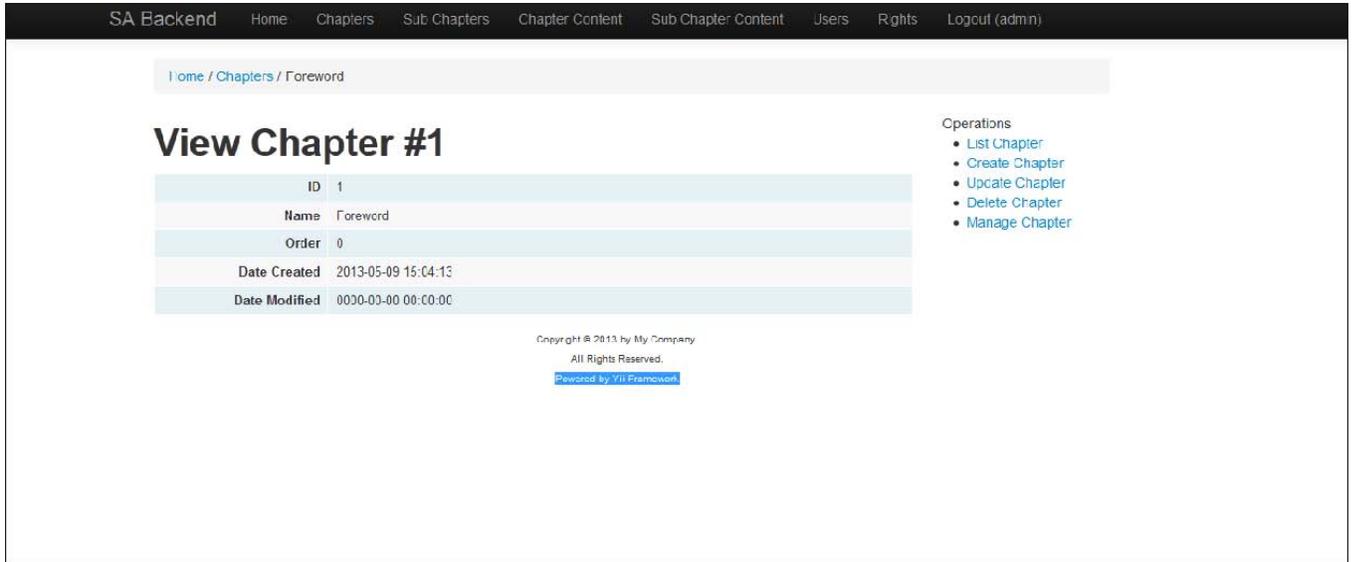


Figure 18. Chapter view

On the right there is a list of operations that can be performed on the chapter: list, create, update, delete, and manage chapter.

To update the chapter, click on **Update Chapter** and amend necessary fields and click the **Save** button (figure 19).

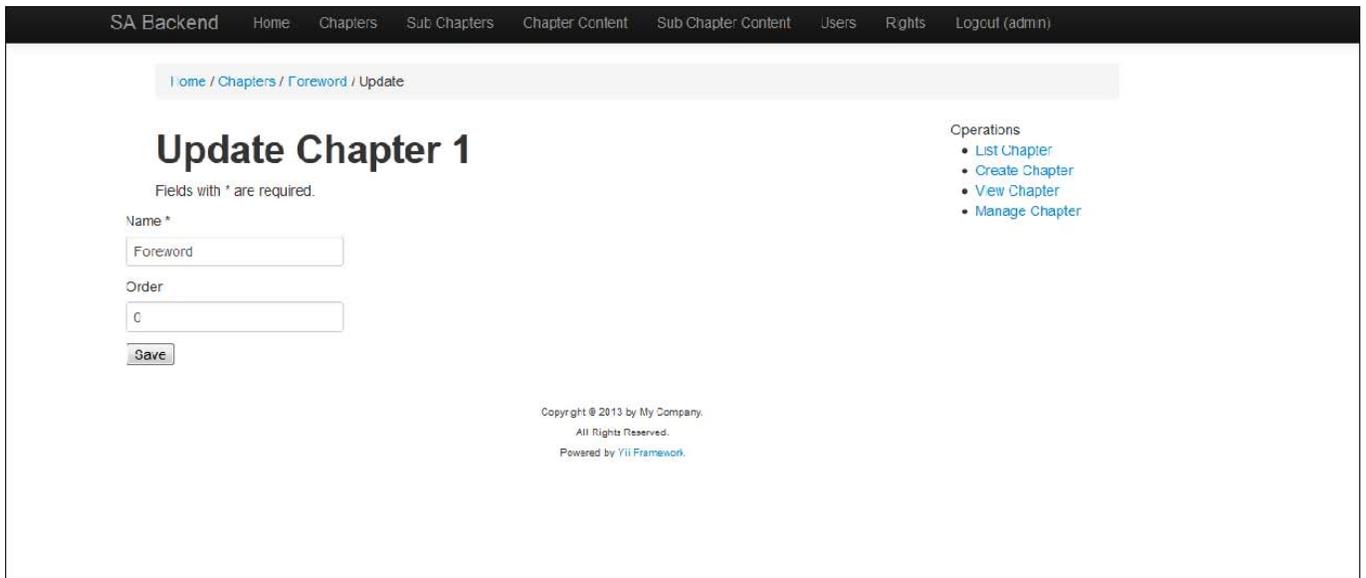


Figure 19. Updating chapters

d) Deleting a Chapter

Deleting a chapter is simple: Click the link to **Delete Chapter**, then a prompt will appear asking the user if the user is sure the particular chapter should be deleted. Upon clicking **Yes**, the chapter will be deleted.

VI. Managing Subchapters

Subchapters are connected to chapters and cannot exist without a parent chapter.

a) List View

On the **SubChapters** page, the IT administrator should see the page laid out as shown in figure 20.

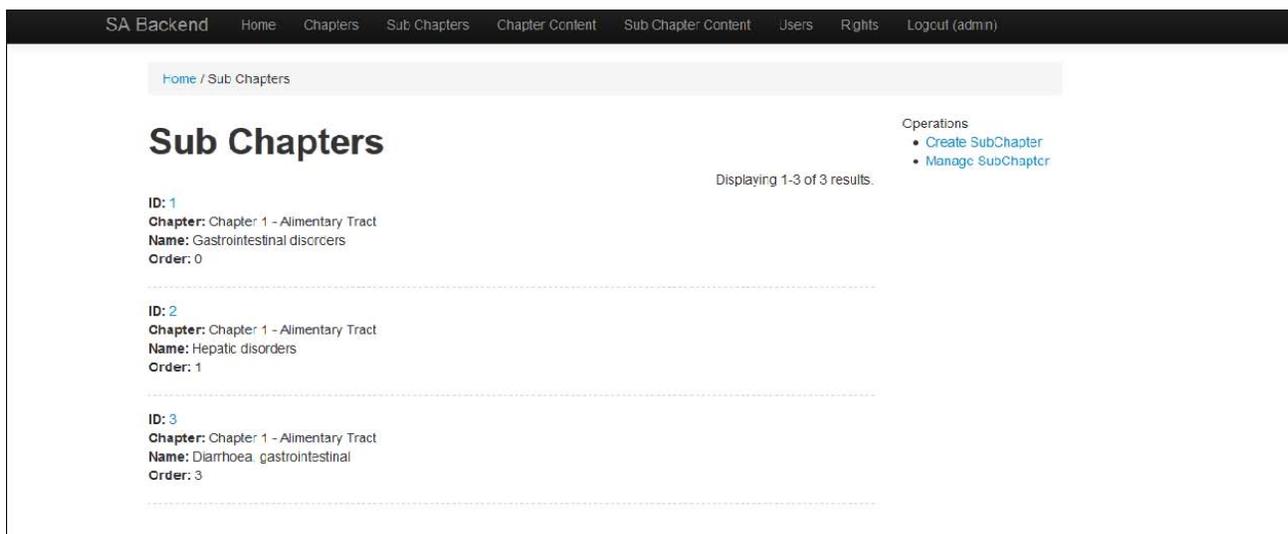


Figure 20

On the left of the screen, each subchapter is listed with its ID, chapter name, subchapter name, and the order that the subchapter appears on the menu. On the right of the screen is a list of various operations that can be performed, which include: **Create SubChapter** and **Manage SubChapter**.

b) Creating a Subchapter

Creating a subchapter is simple: select the parent chapter name and enter the subchapter name and the order in which it should show up on the menu in the Web / Android application; then click **Create** (figure 21).

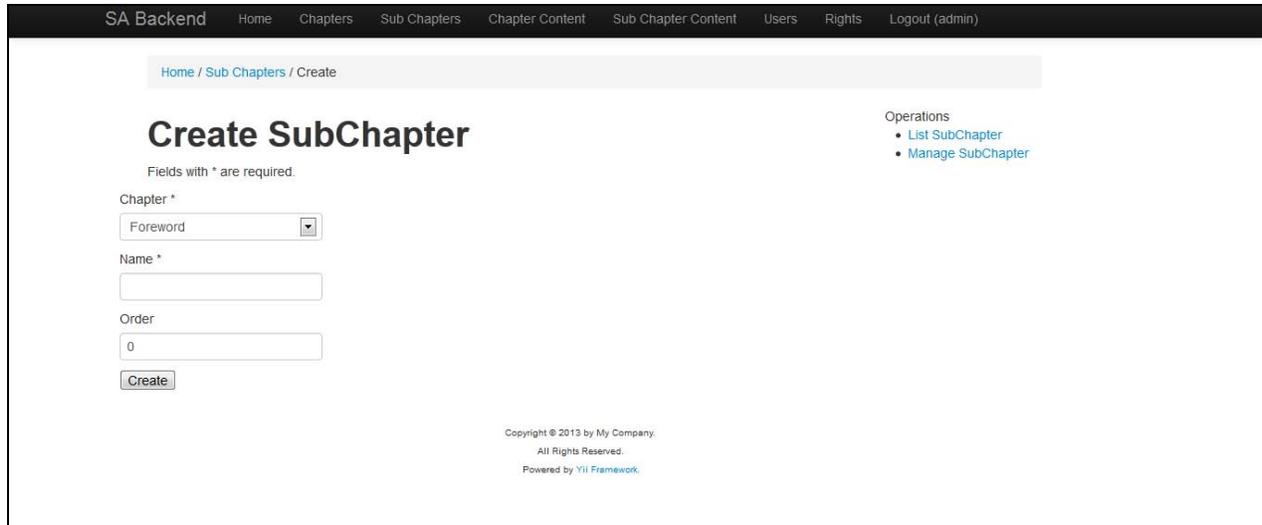


Figure 21

c) Updating a Subchapter

To edit a subchapter, from the list view, click on the subchapter ID, which will bring up the **SubChapter** view (figure 22).

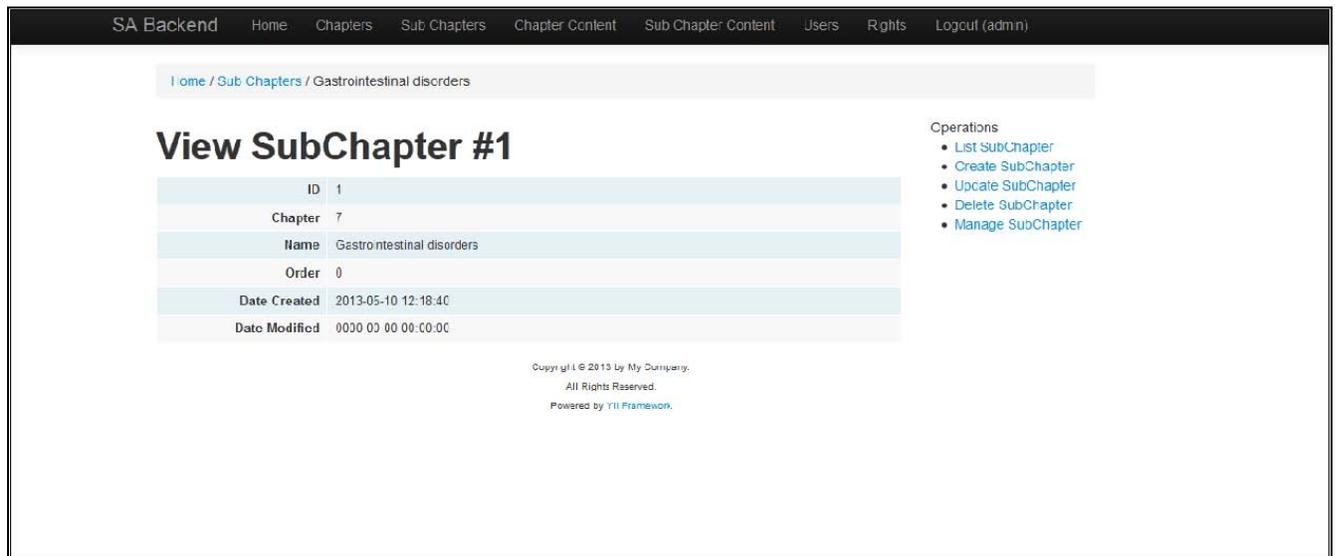


Figure 22

On the right is a list of operations that can be performed on the subchapter: list, create, update, delete and manage.

To update the chapter, click on **Update SubChapter**, then change all necessary fields, and press the **Save** button (figure 23).

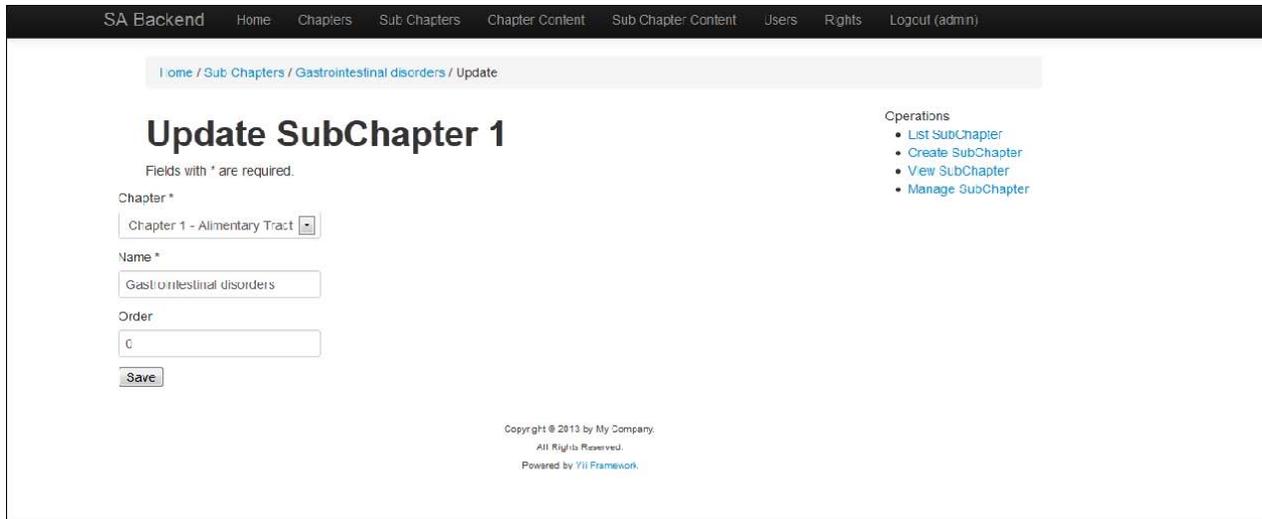


Figure 23

d) Deleting a Subchapter

Deleting a subchapter requires the same actions as deleting a chapter. When you click the **Delete a SubChapter** link, you will be prompted on whether you are sure you want to delete that particular subchapter. Upon clicking **Yes**, the subchapter will be deleted.

VII. Managing Chapter Content

Chapter content is the content that is placed under the chapter name but does not belong to any subchapter. This could be a description of the chapter content to follow.

a) List View

On the **Chapter Contents** page, a list view of all the chapter content entries will appear (figure 24).

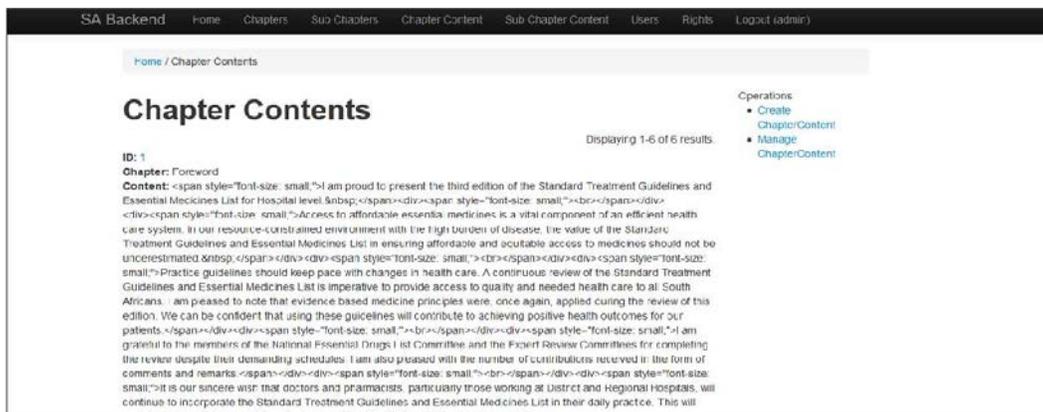


Figure 24

b) Creating Chapter Content

To create chapter content (figure 25), select the parent chapter name and enter the necessary content to be displayed. Click on **Create** and you are done.

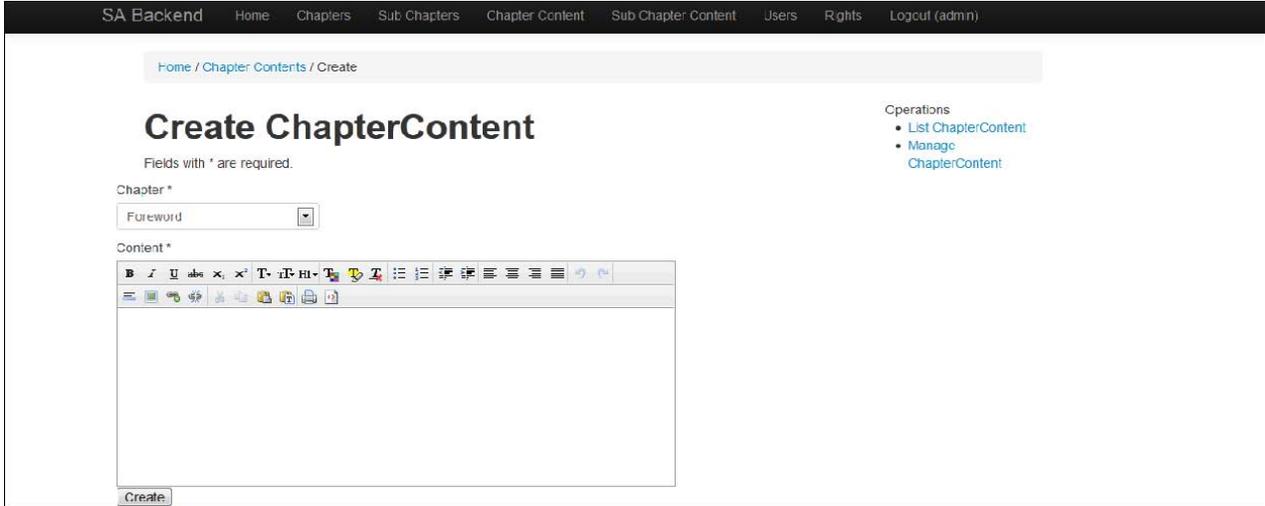


Figure 25

c) Updating Chapter Content

To edit chapter content, from the list view, click on the **Chapter Content ID**, which will bring you to the **Chapter Content** view (figure 26).

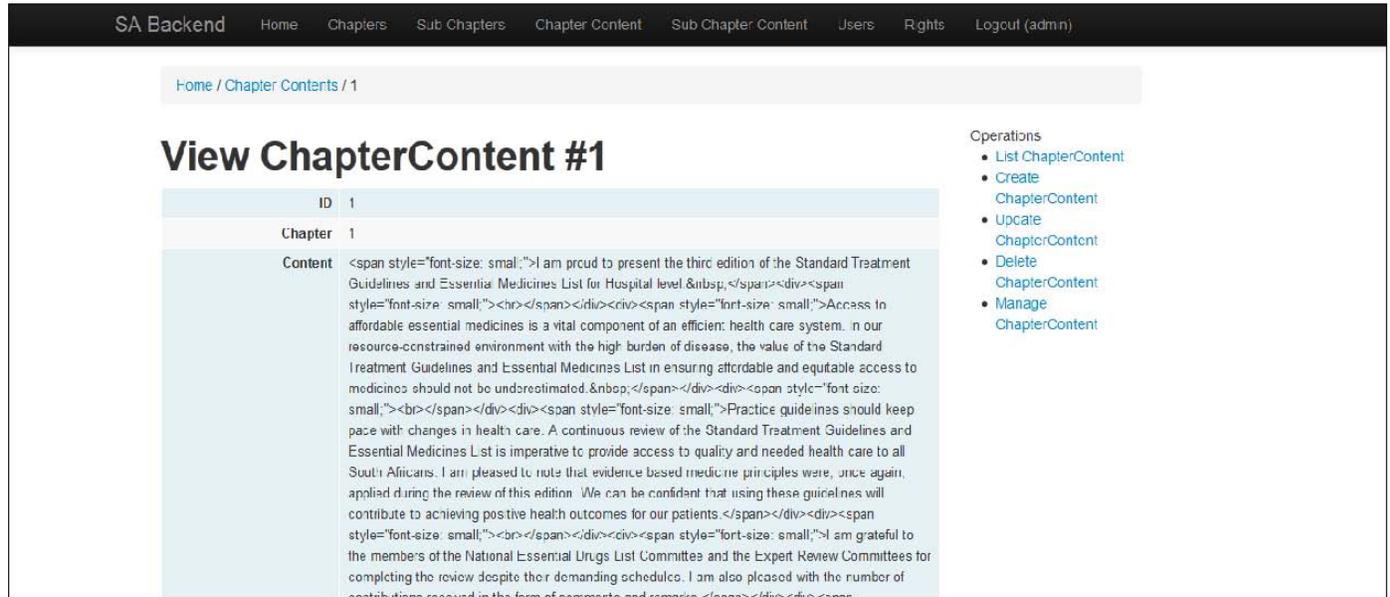


Figure 26

On the right there is a list of operations that can be performed on the chapter content: list, create, update, delete, and manage. To update the chapter content, click on **Update Chapter Content**, change all necessary fields, and press the **Save** button (figure 27).

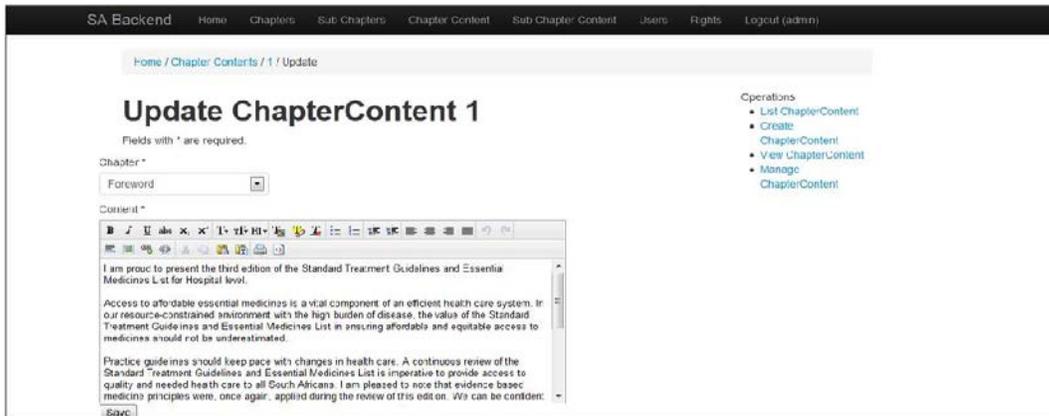


Figure 27

d) Deleting Chapter Content

Deleting chapter content follows the same process as deleting any other type of content. Upon clicking on the link to **Delete Chapter Content**, the administrator will be prompted to confirm the deletion of that particular chapter content. Upon clicking **Yes**, the content will be deleted.

VIII. Managing Subchapter Content

Subchapter content is the content that is placed within the subchapter name.

a) List View

On this page, the screen shows a list view of all the subchapter content entries (figure 28).

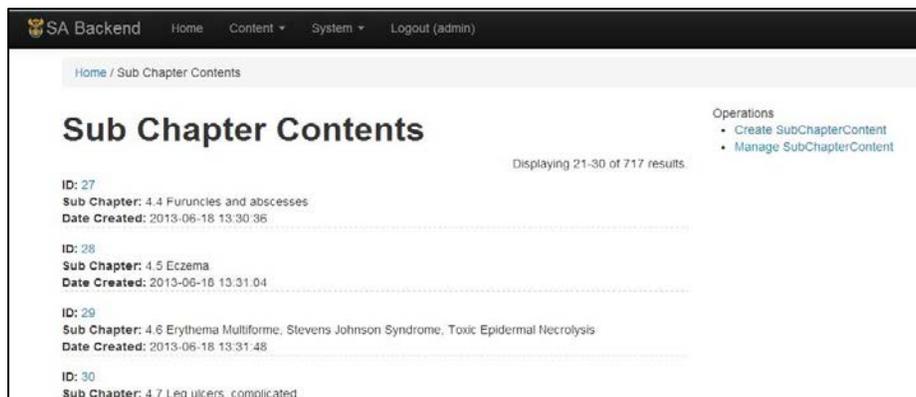


Figure 28

b) Creating Subchapter Content

To create a subchapter content section, select the parent subchapter name and enter the necessary content that will be displayed (figure 29). Click **Create** and you are done.

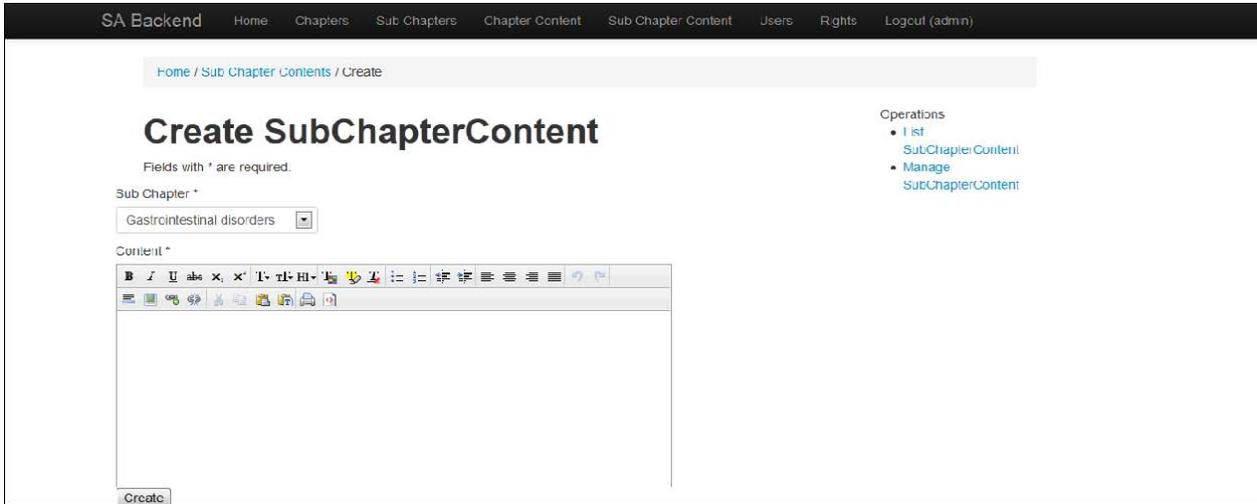


Figure 29

c) Updating Chapter Content

To edit subchapter content, from the list view, click on the **SubChapter Content ID**, which will bring you to the **SubChapter Content** view (figure 30).

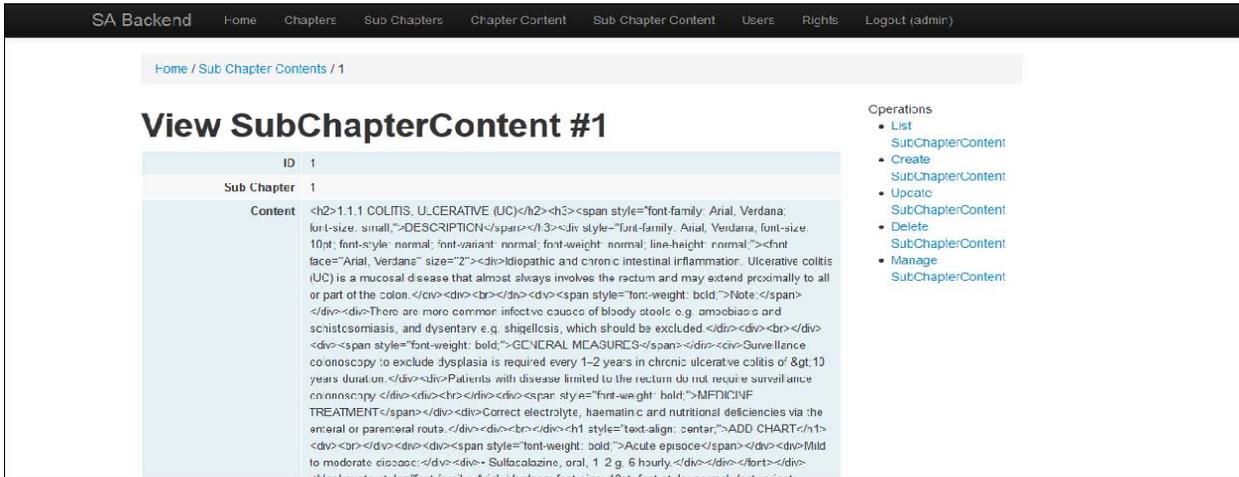


Figure 30

On the right there is a list of operations that can be performed on the subchapter content: list, create, update, delete, and manage. To update the subchapter content, click on **Update SubChapter Content**, change all necessary fields, and click the **Save** button (figure 31).

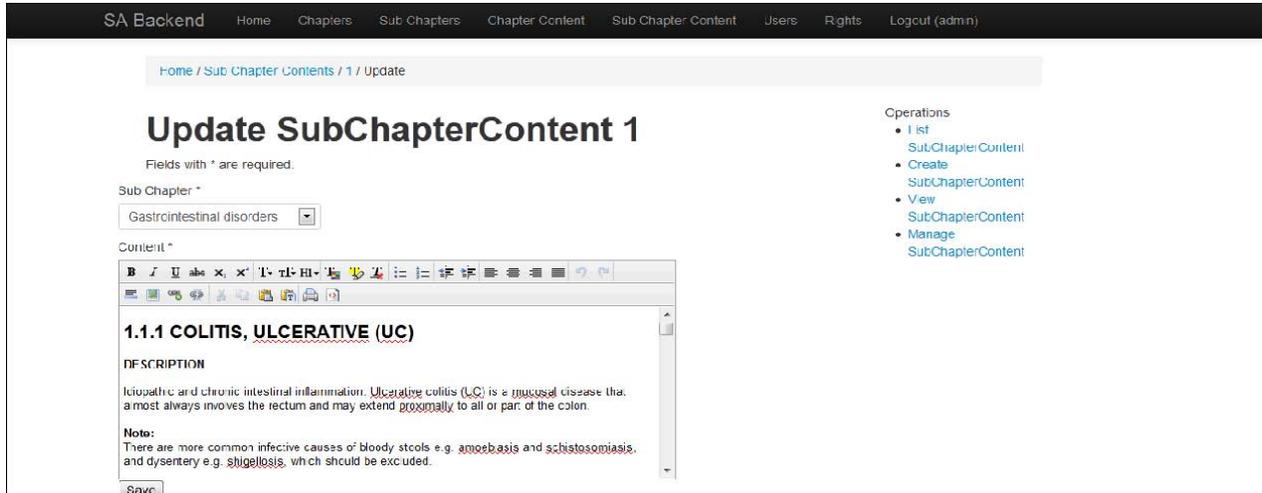


Figure 31

d) Deleting Chapter Content

Deleting subchapter content is the same as deleting any other type of content. When you click the link to **Delete SubChapter Content**, you will be prompted on whether you are sure you want to delete that particular subchapter content. Upon clicking **Yes**, the content will be deleted.

IX. Version Update

a) Book Version

Modifying this version will allow the Android version to update. Only the IT administrator should change the version from any current value *. This action is performed when content or data has been added, edited, or modified. For the content to change or be added, the version value must be changed. For example if the version value is 1.0 and then changes or additions to the content are made, the value must be changed to 1.1. To access the feature on the database backend window:

Click > **Content** > then click > **Version** (figures 32 and 33).

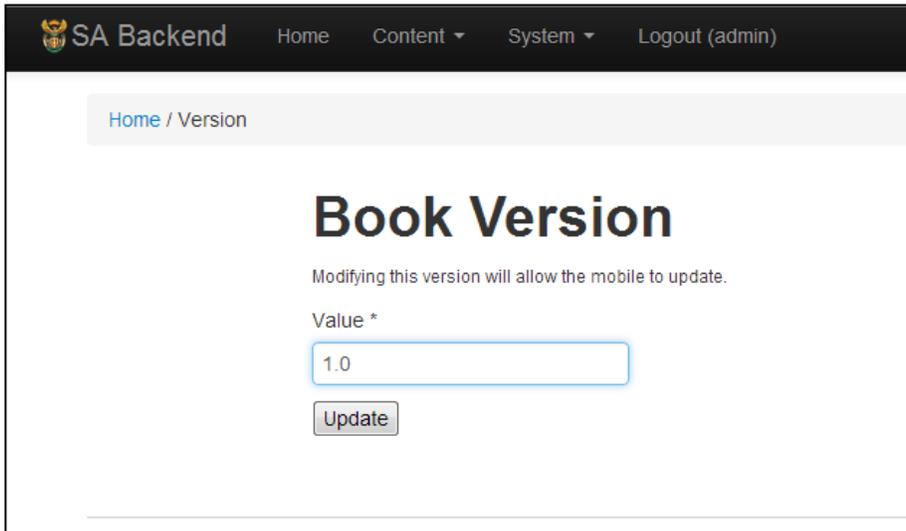


Figure 32

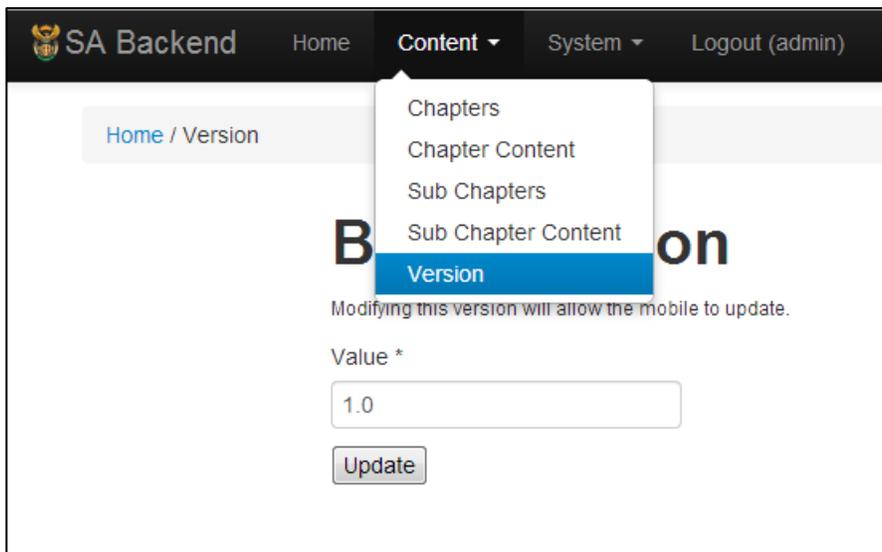


Figure 33

X. Database Backup

The database backend file is the backbone of both Web and smartphone applications; it is highly recommended that a daily backup procedure is performed on the respective database server, and on multiple media storage devices. After backup, the storage device can be stored in various safe locations, such as a fireproof safe, away from the site.

HOW TO EDIT THE SUBCHAPTER CONTENT IN HTML SOURCE CODE EDITOR

Find **DESCRIPTION** and surround it with `<a data-toggle="collapse" data-target="#colDescription">...`

Find **GENERAL MEASURES** and surround it with `<a data-toggle="collapse" data-target="#colGeneral">...`

Find **MEDICINE TREATMENT** and surround it with `<a data-toggle="collapse" data-target="#colMedicine">...`

Find **REFERRAL** and surround it with `<a data-toggle="collapse" data-target="#colReferral">...`

For the content, surround the necessary content with either

`<div id="colDescription" class="collapse">...</div>`

or

`<div id="colGeneral" class="collapse">...</div>`

or

`<div id="colMedicine" class="collapse">...</div>`

or

`<div id="colReferral" class="collapse">...</div>`

Then click Save.

Below is a screen shot of the editor with the html source code editor icon marked in red.

SA Backend Home Content System Logout (admin)

Update SubChapterContent 6

Fields with * are required.

Sub Chapter * 2.3 Anaemia, haemolytic

Content *

Operations

- List SubChapterContent
- Create SubChapterContent
- View SubChapterContent
- Manage SubChapterContent

D59

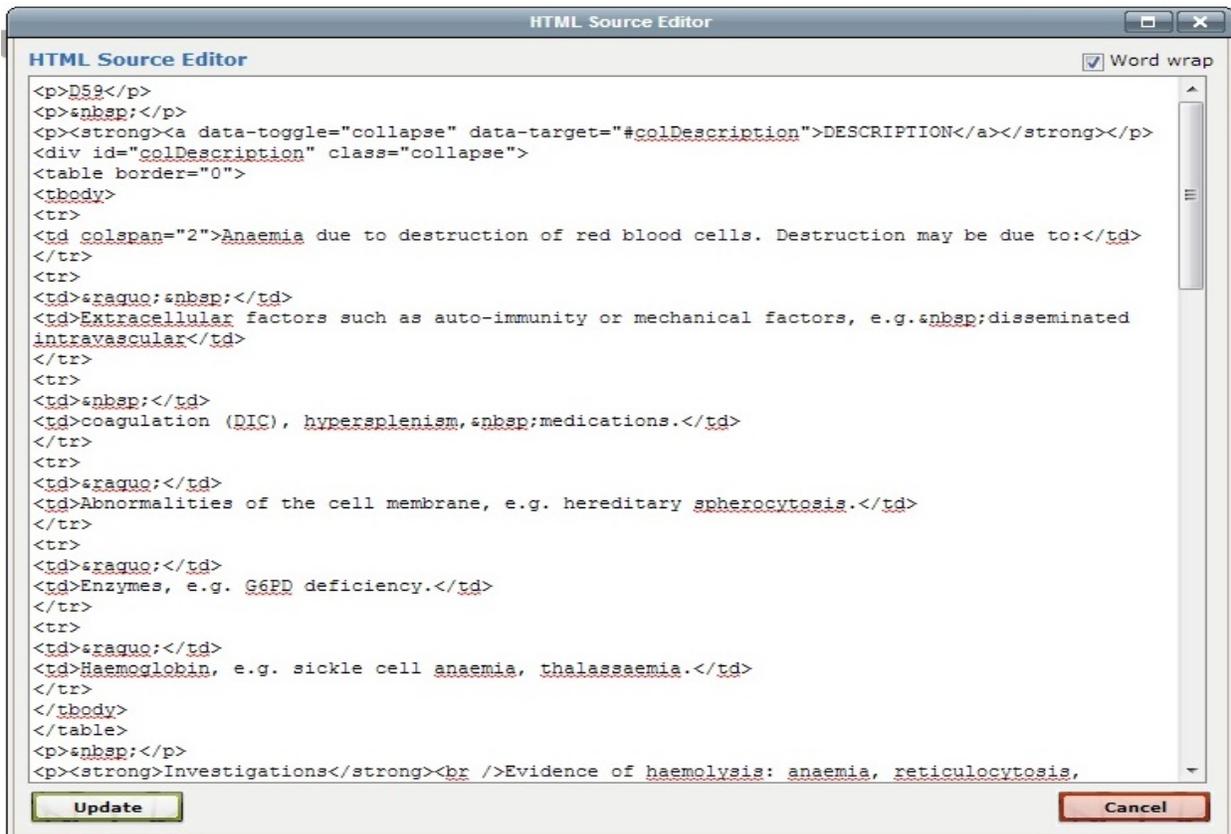
DESCRIPTION

Anaemia due to destruction of red blood cells. Destruction may be due to:

- Extracellular factors such as auto-immunity or mechanical factors, e.g. disseminated intravascular coagulation (DIC), hypersplenism, medications.
- Abnormalities of the cell membrane, e.g. hereditary spherocytosis.
- Enzymes, e.g. G6PD deficiency.
- Haemoglobin, e.g. sickle cell anaemia, thalassaemia.

HTML source code editor icon

When the icon is clicked, it opens up an html source code editor (below) where the commands (on page 23) for collapsible links should be inserted.



Below is an example of how to create a collapsible text or link.

GENERAL MEASURES

» Lifestyle modification.

See section 3.1: Ischaemic heart disease and atherosclerosis, prevention.

MEDICINE TREATMENT

Continue oral therapy as above.

If heart failure develops, replace atenolol with:

- Carvedilol, oral.

See section 3.4: Congestive Cardiac Failure.

REFERRAL

» Ongoing chest pain or post-infarct angina.

The command then should be inserted only in the html source code editor (the command surrounding the text is marked in red for illustration purposes).

```
<p><strong><a data-toggle="collapse" data-target="#colDescription">GENERAL MEASURES</a></strong></p>
```

```
<div id="colDescription" class="collapse">&raquo; &nbsp; Lifestyle modification.<br /><a href="http://bwintec.com/appfront/#/ch/9/sub/17">See section 3.1:</a> Ischaemic heart disease and atherosclerosis,&nbsp;prevention.</div>
```

```
<p>&nbsp;</p>
```

```
<p><strong><a data-toggle="collapse" data-target="#colMedicine">MEDICINE TREATMENT</a></strong></p>
```

```
<div id="colMedicine" class="collapse">Continue oral therapy as above.
```

```
<p>&nbsp;</p>
```

```
<p>If heart failure develops, replace atenolol with:<br />&bull; Carvedilol, oral.<br /><a href="http://bwintec.com/appfront/#/ch/9/sub/20">See section 3.4:</a> Congestive Cardiac Failure.</p>
```

```
</div>
```

```
<p>&nbsp;</p>
```

```
<p><strong><a data-toggle="collapse" data-target="#colReferral">REFERRAL</a></strong></p>
```

```
<div id="colReferral" class="collapse">&raquo; &nbsp; Ongoing chest pain or post-infarct angina.</div>
```

The result of these changes can be seen in the screen shot below of the backend.

The screenshot shows the SA Backend administration interface. At the top, there is a navigation bar with 'SA Backend', 'Home', 'Content', 'System', and 'Logout (admin)'. Below this, a breadcrumb trail reads 'Home / Sub Chapter Contents / 267'. The main content area features a large heading '3.2.3 CHRONIC MANAGEMENT OF STEMI / NSTEMI / UA'. To the right of this heading is a list of 'Operations': 'List SubChapterContent', 'Create SubChapterContent', 'Update SubChapterContent', 'Delete SubChapterContent', and 'Manage SubChapterContent'. Below the heading is a table with the following data:

ID	267
Sub Chapter	3.2.3 CHRONIC MANAGEMENT OF STEMI / NSTEMI / UA
Content	GENERAL MEASURES
	MEDICINE TREATMENT
	REFERRAL

The text is now collapsible, and below is a shot of the new screen that the user will see as a result of the changes made in the code editor.

The screenshot shows the user-facing website. At the top, there is a header with the 'health' logo and 'Department of Health REPUBLIC OF SOUTH AFRICA'. Below this, there is a navigation bar with 'HOSPITAL LEVEL ADULTS (2012) UPDATE JANUARY 2014', 'STANDARD TREATMENT GUIDELINES AND ESSENTIAL MEDICINES LIST', and 'ESSENTIAL DRUGS PROGRAMME SOUTH AFRICA'. The main content area features a search bar and a 'Search' button. Below the search bar is a list of 'Chapters': 'DISCLAIMER', 'FOREWORD', 'INTRODUCTION', 'ACKNOWLEDGEMENTS', 'THE ESSENTIAL MEDICINES CONCEPT', and 'HOW TO USE THIS ADULT'. The main content area also features a large heading '3.2.3 CHRONIC MANAGEMENT OF STEMI / NSTEMI / UA' and a list of content items: 'GENERAL MEASURES', 'MEDICINE TREATMENT', and 'REFERRAL'. A print icon is visible next to the heading.

When the user clicks on GENERAL MEASURES, MEDICINE TREATMENT, OR REFERRAL, the content will expand, as shown below.



Commonly Used HTML Tags: What They Mean.

Tags	Meaning
<html> </html>	Hypertext markup language
<head> </head>	Head, or prologue, of the HTML document
<body> </body>	All the other content in the HTML document
<title> </title>	Title of the document
<p>	Paragraph
 	Line break
<hr>	Horizontal rule
<hr size=?>	Thickness (in pixels)
<hr width=?>	Width (in pixels)
<hr width=?%>	Width percent (as a percentage of page width)
<hr noshade>	Solid line (without the 3D cutout look)
<!-- ... -->	Comment
<a> ... 	Links the current HTML file to another file.
href=	Hypertext reference

Tags	Meaning
	List
 	Organized list ("li" before each list item)
 	Unorganized list ("li" before each list item)
<dl> <dt> <dd> </dl>	Definition list Term Definition End definition list
	Image source
 	Bold
<i> </i>	Italic
 	Strong emphasis (usually displayed as bold)
 	Emphasis (usually displayed as italic)
<blockquote> </blockquote>	Block quote (usually indented)
<tt> </tt>	Typewriter (displays in a monospaced font)
<pre> </pre>	Preformatted (display text spacing as is)
<table> <tr> <td> </td> </tr> </table>	Start table Table row Table data End data End row End table

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