



Dr. Batubenga Surgery

End User Book

Contents

1.System OverView	4
2.Authorised Use Permission	4
3.Getting Started	5
3.1.Spash Screen	5
3.2 Login Form	6
3.2.1 Normal Login.....	7
3.2.2 User Login Validations and Errors	7
3.2.2.1 Invalide Credentials	7
3.2.2.2 More than 3 Attempts	8
3.2.2.3 Forgot Password	8
4. Main form	10
4.1. Main form	10
4.2 Menu Strip	12
4.2.2 Report	12
4.2.2 Menu Strip	12
4.2.3 About.....	13
4.2.4 Help	13
4.2.5 Logout	13
5. Forms	13
5.1 New Patient form.....	15
5.2 Appointment form	15
5.3 Payment form	16
5.4 View Consultation form	17
5.5 Consultation form	18
5.6 Treatment form.....	19
5.7 Medication form	20
5.8 Employee form.....	21
6.Reports.....	23
7 .ShortKeys	24
8 .Icons	24

Authorization Memorandum

We have carefully assessed the User's Manual for the **Dr Batubenga Management System**. This document has been completed in accordance with the requirements of the HUD System Development Methodology.

We fully accept the changes as needed improvements and authorize initiation of work to proceed. Based on our authority and judgment, the continued operation of this system is authorized

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1. System Overview

Dr Batubenga Management System is an application, developed to manage basic work such as patient registration, employee registration, booking of appointment, Payments, Consultation and Treatment of patients, and Stock medication.

The application capture, process and saves collected data into a local database.

Dr Batubenga Management System functions on Windows Operating System.

2. Authorized use permission

Dr Batubenga Management System is a System created for Dr Batubenga use only, it's not for sale or for rental. This system has been created for Academic purpose only.

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If you distribute copies of such program after approval of the authors, whether, you must give to the recipients all the rights that you have. You must make sure that they also receive the source code and show them these terms so they know their rights (Read Software License).

3. Getting Started

3.1 Splash Screen

When running Dr Batubenga Surgery Management System set up from your desktop, a splash screen will first appear as seen in figure 3.1.1, after double clicking on the system logo.

Figure 3.1.1 Splash Screen



3.2 Login form

After the splash screen has loaded all files, a login form will appear as shown in figure 3.2.1 in the middle of your screen that will allow you to get access to the main form of the system.

Figure 3.2.1 Login Form

The image shows a login form for 'Dr. Batubenga Surgery'. At the top, there is a logo featuring a stylized head with a brain and a network of nodes, with the text 'Dr. Batubenga Surgery' below it. Below the logo is a horizontal line. The form contains two input fields: one labeled 'Username' and another labeled 'Password'. Below the password field is a button labeled 'Forgot Password?'. At the bottom, there are two buttons: 'Exit' on the left and 'Login' on the right. The entire form is set against a dark blue background with a lighter blue gradient.

3.2.1 Normal Login

The user will be prompt to enter his/her credentials (username and password) in the form and then click on the Login button that is inactive until the user fill all the field to access the system main form or click on Exit button to close the system.

3.2.2 User Login Validations and Errors

3.2.2.1 Invalidate Credentials

When inserting an invalid credential (username or password), the following error message as shown in figure 3.2.2.1.1 will prompt telling you that you entered a wrong password or username.

Figure 3.2.2.1.1 Invalid Login



3.2.2.2 More than 3 attempts

After three failed attempts to login, a pop-up message stating that your account has been locked up will pop on the screen and you will be asked to reset your password by clicking the “forgot password” button.

3.2.2.3 Forgot Password

A user who forgot his/her password will have to click the forgot password button to reset his/her password, in order to do so the user enters again his/her username as shown in figure 3.2.2.3.1 and has to answer a security question shown in figure 3.2.2.3.2 once the answer given correspond to the one in the database user will be able to reset is password as shown in figure 3.2.2.3.3

Figure 3.2.2.3.1

A screenshot of a 'Forgot Password' dialog box. The dialog has a dark blue background with a lighter blue gradient. At the top, the title 'Forgot Password' is displayed in white text. Below the title, there is a label 'Email :' followed by a white text input field. At the bottom of the dialog, there are two buttons: 'Close' on the left and 'Reset Password' on the right, both with white text on a dark blue background.

Figure 3.2.2.3.2



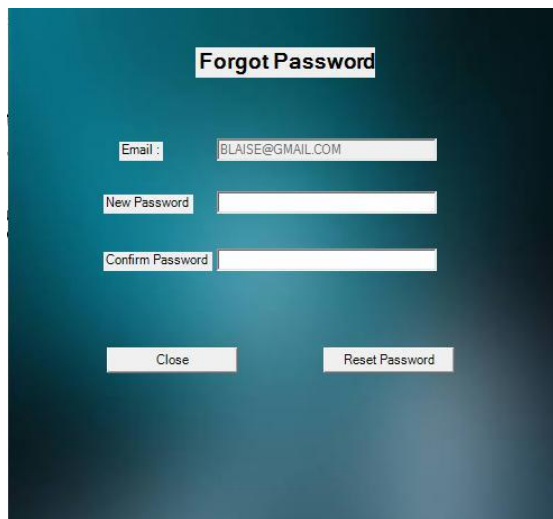
Forgot Password

Email :

Security question

Answer :

Figure 3.2.2.3.3



Forgot Password

Email :

New Password

Confirm Password

4. Main form

4.1. Main form

The main form allows the user to navigate throughout the system, access to controls such as (Button, Menu tool strip, etc.) will be granted according to the employee type. Each user has his/her own button that he/she manages; only the manager has the right to have access to all buttons and menu strip. Users' full name and his type are displayed on the right up next to the logout menu strip as shown in figure 4.1.1 the following are button allocated to each user according to the level of restriction:

- ❖ Each user has the right to change (update) personal or private information
- ❖ Only the receptionist has the right to have access to create patient, appointment, and payment button see figure 4.1.2
- ❖ Only the manager has the right on all the buttons of the system see figure 4.1.3
- ❖ Only the doctor has the right on consultation and medication button see figure 4.1.4

Figure 4.1.1

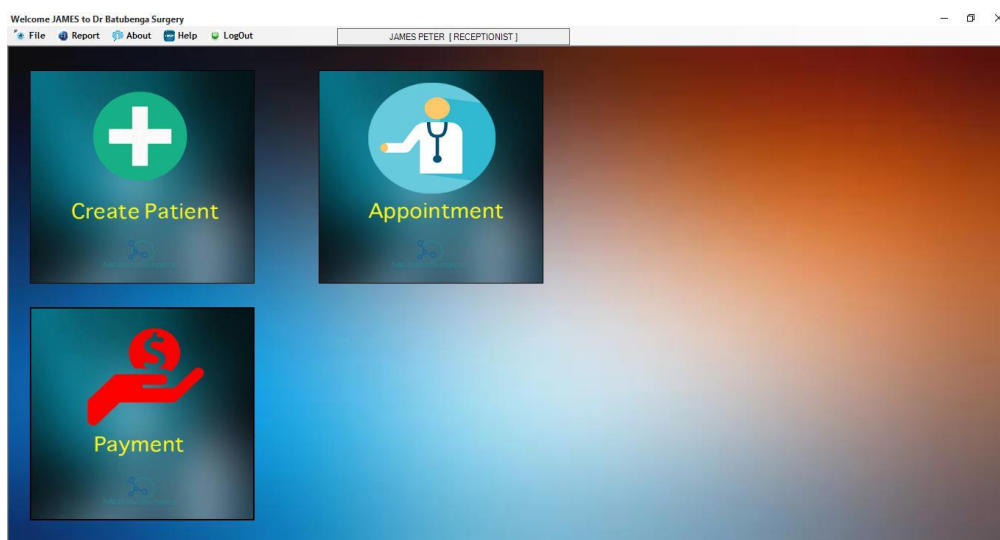


Figure 4.1.2

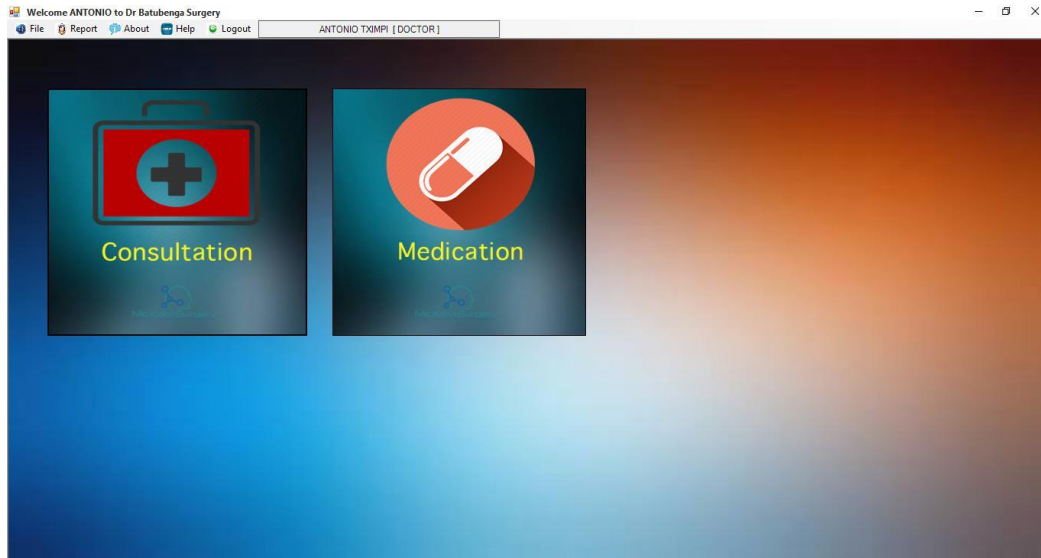
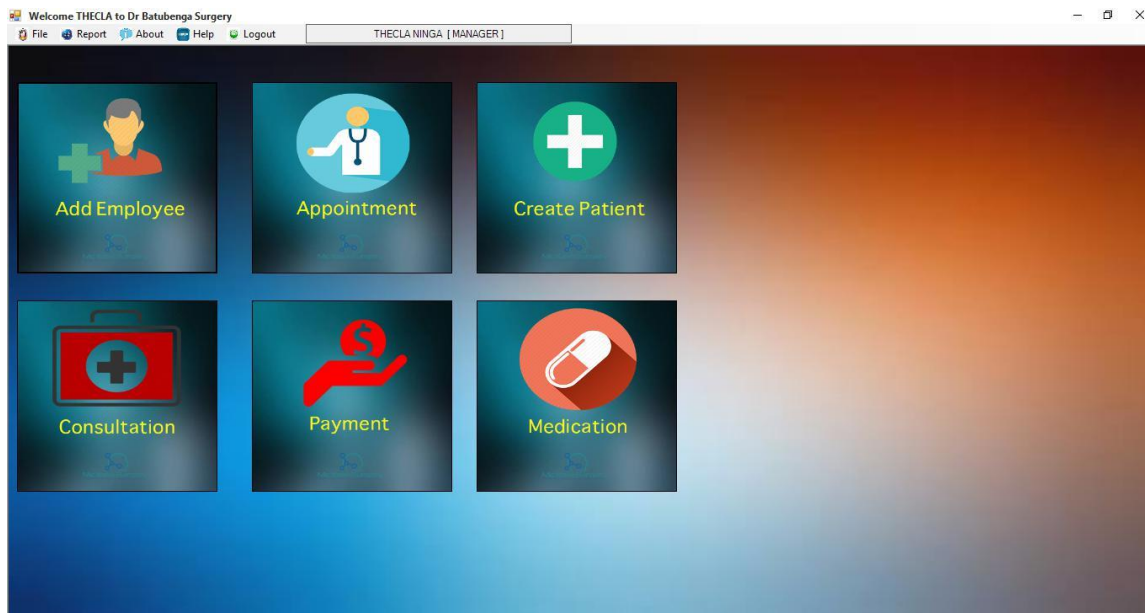


Figure 4.1.3



4.2 Menu Strip

Basically this menu is contents the shortcut of the button on the main screen, the following are the menu strip you can find:

- ❖ File
- ❖ Report
- ❖ About
- ❖ Help
- ❖ And Logout

4.2.1 File Menu trip

Content employee, patient, view appointment, consultation, treatment, medication, payment, search information, all these are restricted according to the restriction level

4.2.2 Report

Content all produced report of the system

4.2.3 About

This menu has all the information regarding the system who, when, where, version etc. It is answered in this menu. See figure 4.2.3.1

Figure 4.2.3.1



4.2.4 Help

The help menu produces the PDF version of the end user book which automatically downloads when you click the pdt.

4.2.5 Logout

The logout menu allow to the user to exit the application

5. Forms

5.1 New Patient form

This form allows the receptionist to register new patient, using South African ID or Passport number and his details (first name, surname, date of birth, phone number etc.) will be recorded. The patient can provide his or her medical aids details whether

he/she has one. After registering the patient, he or she can book an appointment to his or her desired date and time according to the doctor availability. see figure 5.1.1

The screenshot shows a web application window titled "Add New Patient". The window has a dark blue header bar with the title. Below the header, there's a light blue sidebar with two tabs: "Identification" and "Details". The "Identification" tab is active, showing two radio buttons: "National South African" (selected) and "International". The "Details" tab is also visible, showing a form with various input fields. The form fields include: Patient ID, ID Number/Passport, Firstname, Surname, Gender (dropdown menu), Marital Status (dropdown menu), Date Of Birth (dropdown menu with "22-Nov-17" selected), Province (dropdown menu with "Eastern Cape" selected), Town (dropdown menu with "Alice" selected), Street Name and No, Postal Code (with "2090" entered), and Phone Number. To the right of the form fields, there's a checkbox labeled "Does the patient have Medical Aid ?". Below this checkbox is a yellow box titled "Medical Aid" containing four input fields: Medical Aid Number, Medical Aid Name (dropdown menu), Medical Aid Options, and Medical Aid Depend. At the bottom right of the form, there are two buttons: "Save Patient" and "Make Appointment".

New patient form has two button (save and book appointment) which are inactive become active when user fill all the required filled, if any fill has an error user will not be able to click any button until the error is corrected

When registering a patient using ID Number date of birth and gender is generated automatically, towns are selected according to provinces, and postal code according to town.

5.2 Appointment form

The patient chooses the date and time for which his/her wants to make an appointment, he/she can either choose to see a specific doctor or the system will automatically assign the doctor to him/her and the default consultation service is recorded.

Figure 5.2.1.

The screenshot displays a web-based 'Appointment Form' interface. The form is titled 'Appointment Form' and includes the following fields and sections:

- Appointment Date:** A dropdown menu showing 'Thursday , November 23, 2017'.
- Starting Time:** A text input field containing '09:30 AM'.
- Finish Time:** A text input field containing '10:00 AM'.
- Doctor :** A text input field containing 'TARCISSE MPOMO'.
- Patient ID:** A text input field containing '1111'.
- Patient Name:** A text input field containing 'TREASURE MANUNGA'.
- Service :** A dropdown menu showing 'Pregnancy Test'.
- Taken Times:** A list showing '11:00 AM' and '08:00 AM'.
- Available Times:** A list showing times from '08:30 AM' to '03:00 PM' in 30-minute increments. '09:30 AM' is highlighted.
- Assign a specific doctor:** A checkbox that is currently unchecked.
- Assign Doctor:** A modal window with a dropdown menu showing 'ANTONIO TXIMPI'.
- Submit:** A button at the bottom of the form.

5.3 Payment Form

Payment can either be made using cash medical aid; those who are using medical aid are also allowed to pay by cash if there are insufficient funds from their medical aid account. No patient is allowed to see the doctor if he or she has not paid yet paid. Payment must be made first otherwise the doctor will not see patient details when logged in.

Figure 5.3.1

The screenshot displays a 'Payment Form' window. At the top, a title bar reads 'Payment Form'. Below it, a dark blue header contains the text 'Payment information' in white. The main content area is light blue and features a 'Payment Process' section on the left. This section includes input fields for 'Payment ID' (1035001), 'Amount Due' (300), and 'Payment Type' (CASH). Below these are fields for 'Employee ID' (2020), 'Employee Name' (JAMES PETER), 'Appointment ID' (6181), 'Patient Name' (THETHE TUMI), and 'Patient ID' (1017). To the right of the 'Payment Process' section, there is a checkbox labeled 'Patient would like to pay with cash ?' which is currently unchecked. Below the checkbox is a 'Payment Information' box containing an 'Amount' input field. At the bottom right of the form is a 'Proceed' button.

Payment information	
Payment ID:	1035001
Amount Due:	300
Payment Type:	CASH
<input type="checkbox"/> Patient would like to pay with cash ?	
Employee ID:	2020
Employee Name :	JAMES PETER
Appointment ID:	6181
Patient Name :	THETHE TUMI
Patient ID:	1017

Payment Information

Amount

Proceed

5.4 View Consultation Form

This form allows the user (Doctor) to view all the scheduled appointments of patients he or she has for the days and upcoming days.]As shown in figure 5.4.1

Figure 5.4.1

AppID	AppointmentDate	StartingTime	FinishTime	Record Treatment
6123	22-Nov-17	09:30 AM	10:00 AM	Record Treatment

The user (Doctor) will not be able to treat any patient if the patient did not make a payment.

5.5 Consultation Form

This form displays the appointment and patient detailed information and it also allows the doctor to conduct consultation by capturing the patient symptoms and diseases. Then save it to the database. As shown in figure 5.5.1

figure 5.5.1

The screenshot shows a software window titled "Consultation Form". It contains two main sections: "Appointment" and "Patient Information".

Appointment Section:

- App ID: 6188
- Appointment Date: Wednesday, November 22, 2017 (with a dropdown arrow)
- Starting Time: 03:30 PM
- Finish Time: 04:00 PM
- Status: PENDING

Patient Information Section:

- Patient ID: 1110
- Firstname: PILAR
- Surname: MUTOMBO

Below these sections, there is a "Symptoms:" label followed by a large empty text area for input. To the right of this area is a "Save" button.

5.6 Treatment Form

This form enables the doctor to assign respective medication to a patient by dispensing the available one along with its posology or the doctor can then prescribe medication to the patient when the drugs are out of stock.

Treatment Form

Consultation

Consult ID: 4053

Symptoms: Inner fever, headache, no appetite

App ID: 6188

Status: COMPLETED

Patient Information

Patient ID: 1001

Firstname: FRANCIS

Surname: MUJIKA

Gender: MALE

Treatment Info

Duration From: Wednesday, November 22, 2017

Duration To: Wednesday, November 22, 2017

Posology:

Medication

Prescribed Medication

Enter Search:

MedDescription	Add	Remove
Panado	Add	Remove
Grand Pa	Add	Remove
Flu Start	Add	Remove
Flusin	Add	Remove
Vitamin C	Add	Remove
Aspirin	Add	Remove
Alergex Crop	Add	Remove

Save

5.7 Medication Form

This form allows the user to enter the medication details (medication description, quantity and price) in the database. See figure 5.7.1

Medication Form

1 of 59

Medication ID: 7001

Med Description: Panado

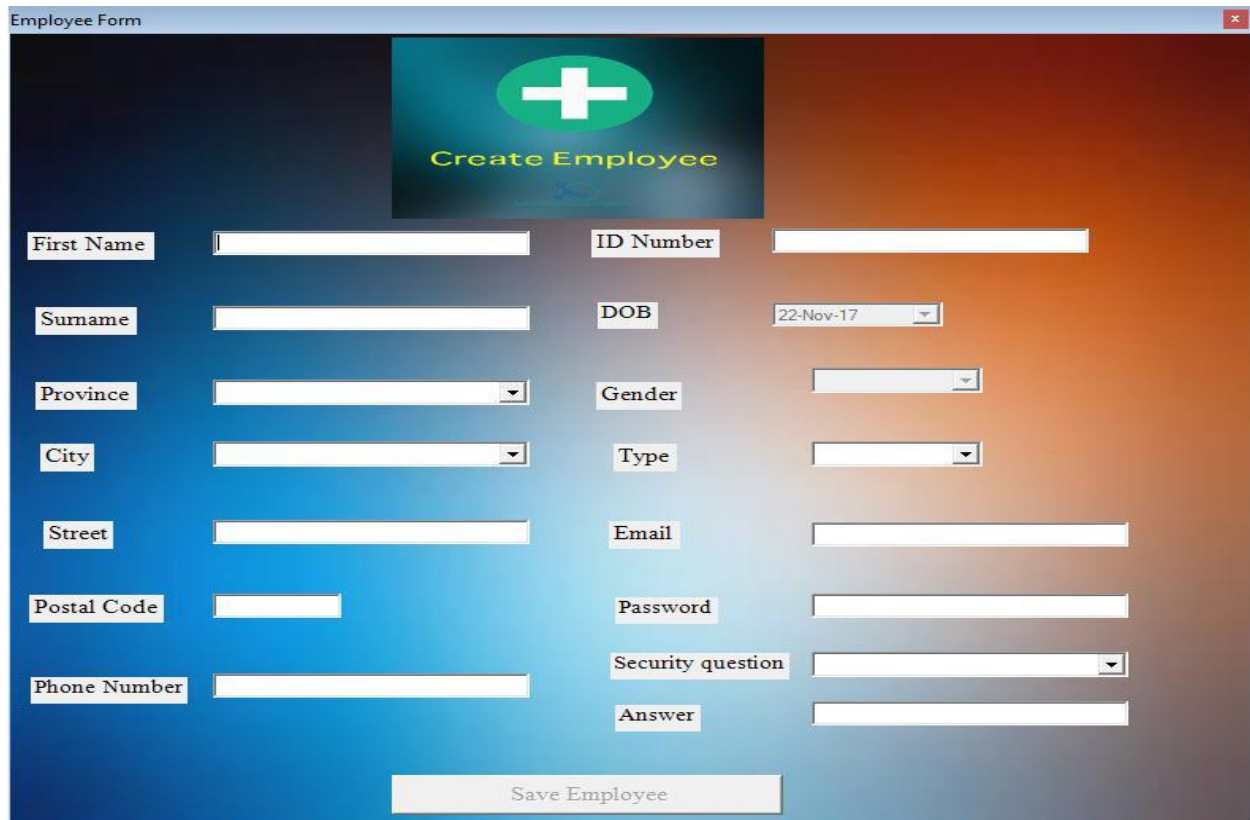
Quantity Stock: 23

Med Price: 4

5.8 Employee Form

This form is used to register detailed information of employees for the surgery in the database it could be a new doctor, manager or receptionist.

See figure 5.8.1.



The screenshot shows a software window titled "Employee Form" with a close button in the top right corner. The window has a blue gradient background. At the top center, there is a green circle with a white cross, and below it, the text "Create Employee" in yellow. The form contains several input fields and dropdown menus arranged in two columns. The fields are: First Name, Surname, Province, City, Street, Postal Code, Phone Number, ID Number, DOB (with a date picker showing "22-Nov-17"), Gender, Type, Email, Password, Security question (with a dropdown), and Answer. A "Save Employee" button is located at the bottom center of the form.

6. Reporting

Reports are produced after each main processes in the system such as making a booking for an appointment, processing a payment and proceeding with treatment process.

Figure 6.1

The screenshot shows a web application window titled 'viewMedication'. The header area includes the address 'Special Eyes Building, President Kruger Avenue, Vanderbijlpark 1900, P.O.Box 3287, Vereeniging, 1930' on the left, the date and time '22-Nov-17 2:26:22 PM' in the center, and the 'Dr. Batubenga Surgery' logo on the right. The main title 'Medication Report' is centered. Below the header, there are two tables. The first table lists medication details, and the second table lists consultation details.

Medication ID	Med Description
7006	Aspirin

Treatment ID	From	To	Treatme
8024	22-Nov-17 12:00:00 AM	22-Nov-17 12:00:00 AM	Vitamir

Consult ID	Symptoms	Status
4052	Strong headache, insomnia and stomach pain	COMPLETED

Figure 6.2

The screenshot shows a web application window titled 'View Appointment'. The header area includes the address 'Special Eyes Building, President Kruger Avenue, Vanderbijlpark 1900, P.O.Box 3287, Vereeniging, 1930' on the left, the date and time '22-Nov-17 2:34:02 PM' in the center, and the 'Mc Kevl Surgery' logo on the right. The main title 'Appointment Report' is centered. Below the header, there are four sections, each with a table of details: Appointment Details, Doctor Details, Patient Details, and Disease Details.

Appointment Details

App ID	Appointment Date	Starting Time	Finish Time	Status
6189	23-Nov-17 12:00:00 AM	08:00 AM	08:30 AM	PENDING

Doctor Details

Employee ID	Firstname	Surname	Email	Phone Number	Type
2016	BLAISE	NDANDU	BLAISE@GMAIL.COM	0710114643	DOCTOR

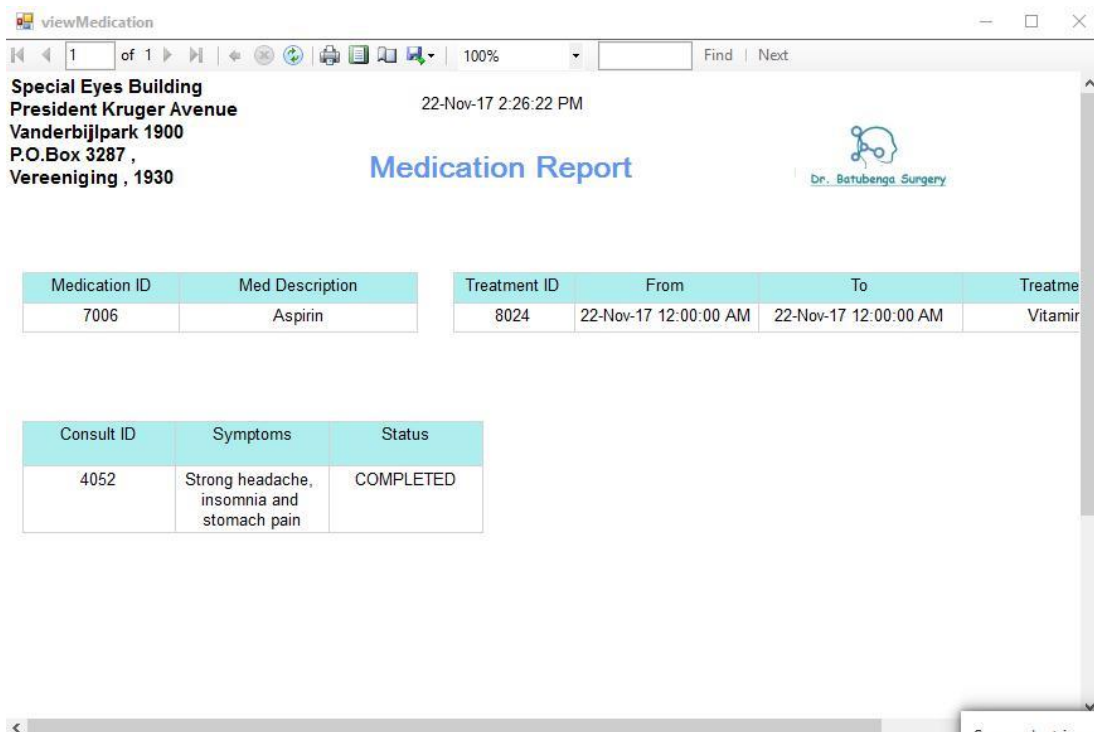
Patient Details

Patient ID	Firstname	Surname	IDNumber	Gender	Phone Number
1006	Jabulile	Nkosi	9405158723483	Female	0733271222

Disease Details

Disease Name	Price
Consultation	R300.00

Figure 6.3



viewMedication

1 of 1 | 100% | Find | Next

Special Eyes Building
President Kruger Avenue
Vanderbijlpark 1900
P.O.Box 3287,
Vereeniging , 1930

22-Nov-17 2:26:22 PM

Medication Report

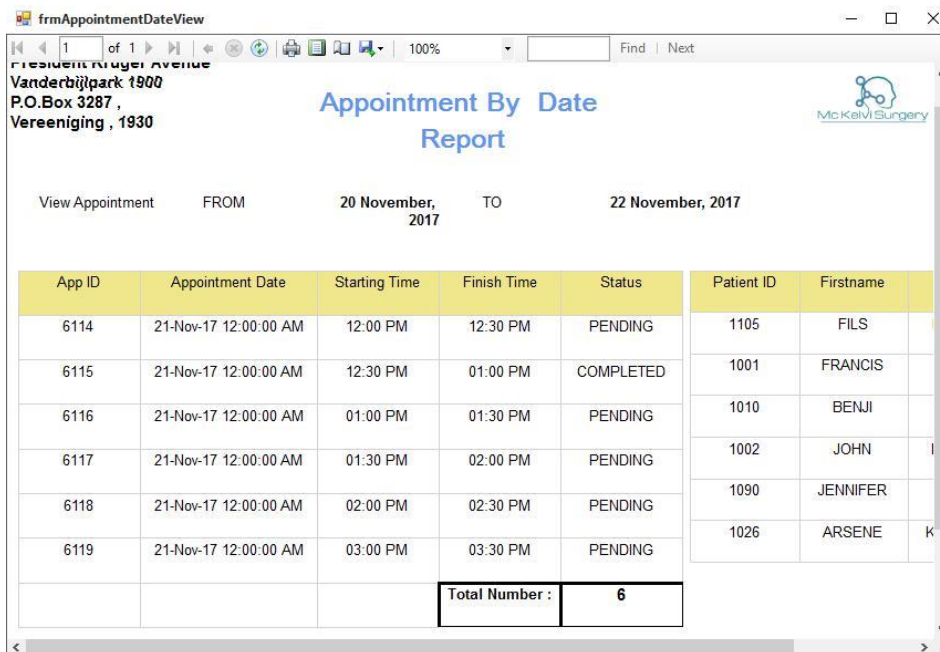
Dr. Batubenga Surgery

Medication ID	Med Description
7006	Aspirin

Treatment ID	From	To	Treatme
8024	22-Nov-17 12:00:00 AM	22-Nov-17 12:00:00 AM	Vitami

Consult ID	Symptoms	Status
4052	Strong headache, insomnia and stomach pain	COMPLETED

Figure 6.4



frmAppointmentDateView

1 of 1 | 100% | Find | Next

President Kruger Avenue
Vanderbijlpark 1900
P.O.Box 3287,
Vereeniging , 1930

Appointment By Date Report

Dr. Batubenga Surgery

View Appointment FROM 20 November, 2017 TO 22 November, 2017

App ID	Appointment Date	Starting Time	Finish Time	Status	Patient ID	Firstname
6114	21-Nov-17 12:00:00 AM	12:00 PM	12:30 PM	PENDING	1105	FILS
6115	21-Nov-17 12:00:00 AM	12:30 PM	01:00 PM	COMPLETED	1001	FRANCIS
6116	21-Nov-17 12:00:00 AM	01:00 PM	01:30 PM	PENDING	1010	BENJI
6117	21-Nov-17 12:00:00 AM	01:30 PM	02:00 PM	PENDING	1002	JOHN
6118	21-Nov-17 12:00:00 AM	02:00 PM	02:30 PM	PENDING	1090	JENNIFER
6119	21-Nov-17 12:00:00 AM	03:00 PM	03:30 PM	PENDING	1026	ARSENE
Total Number :				6		

7. SHORT KEYS

The system also have short keys helps to make the system easy and fast access, used to bind keyboard to control of the system. Its helps you to directly access the control by pressing the key or combining keys assigned to that control. The following are the keys used in this system:

- ❖ F1 = Open the User Manual in PDF Format
- ❖ F10= Close the application
- ❖ F12 = About
- ❖ Ctrl +P = gives access to patient
- ❖ Ctrl +C= gives access to consultation form
- ❖ Ctrl+ M= gives access to medication form
- ❖ Ctrl+ Alt+ A=gives access to payment form

8. ICONS



: Gives access to report



: allow user to logout of the system



:Gives access to the user manual



: Gives access to system file



: gives access to system information

