

INFORMATION TECHNOLOGY

INFORMATION KIOSKS



Cape Grace Hotel

CONTENTS

	<u>PAGE</u>
SCENARIO AND SCOPE	3
USER REQUIREMENTS CASE DIAGRAM	4 -5
FLOW DIAGRAM	6-12
DATABASE - DESIGN	13
GUI - DESIGN	14-21
DATA DICTIONARY	22
SOFTWARE TOOL - IPO TABLE	23-37

An Information kiosk is a self-service kiosk that helps people to get a better idea about that particular location. In many specific public areas, you can find these kinds of kiosks available where you get information that you want. It is both efficient and visually pleasing.

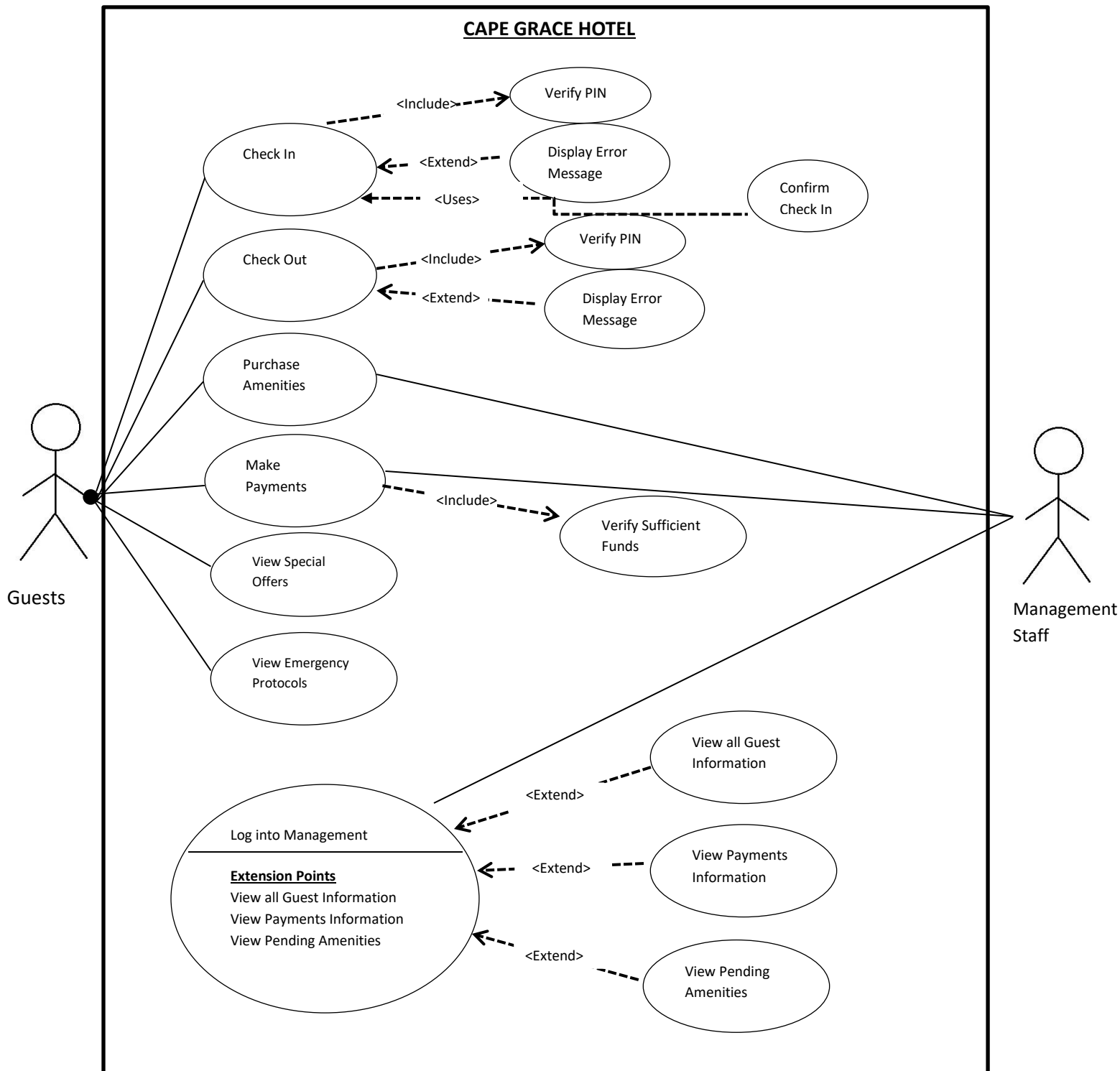
Cape Grace Hotel is situated on a private quay between Cape Town's bustling V&A Waterfront and the tranquil yacht marina decorated with exquisite furniture, rare fabrics, intriguing artefacts and original antiques. This hotel is facing a problem with the number of guests booking and checking into the hotel. At this moment, the hotel does not use any form of self service and wishes to implement this technology.

I will be designing and writing a program for Cape Grace Hotel which will be accessible on many information kiosks situated around the hotel, where the guests, can check in on their own by simply entering their booking code and PIN they received through an email confirming their stay at the hotel. Others may want to upgrade their room, redeem special offers and purchase additional amenities, all in a leisurely and effortless way which they can do themselves. If the guest wishes to pay their account, their account will be accessible and they may enter their banking details so that the payment will be made. This way guests can start enjoying their holiday sooner.

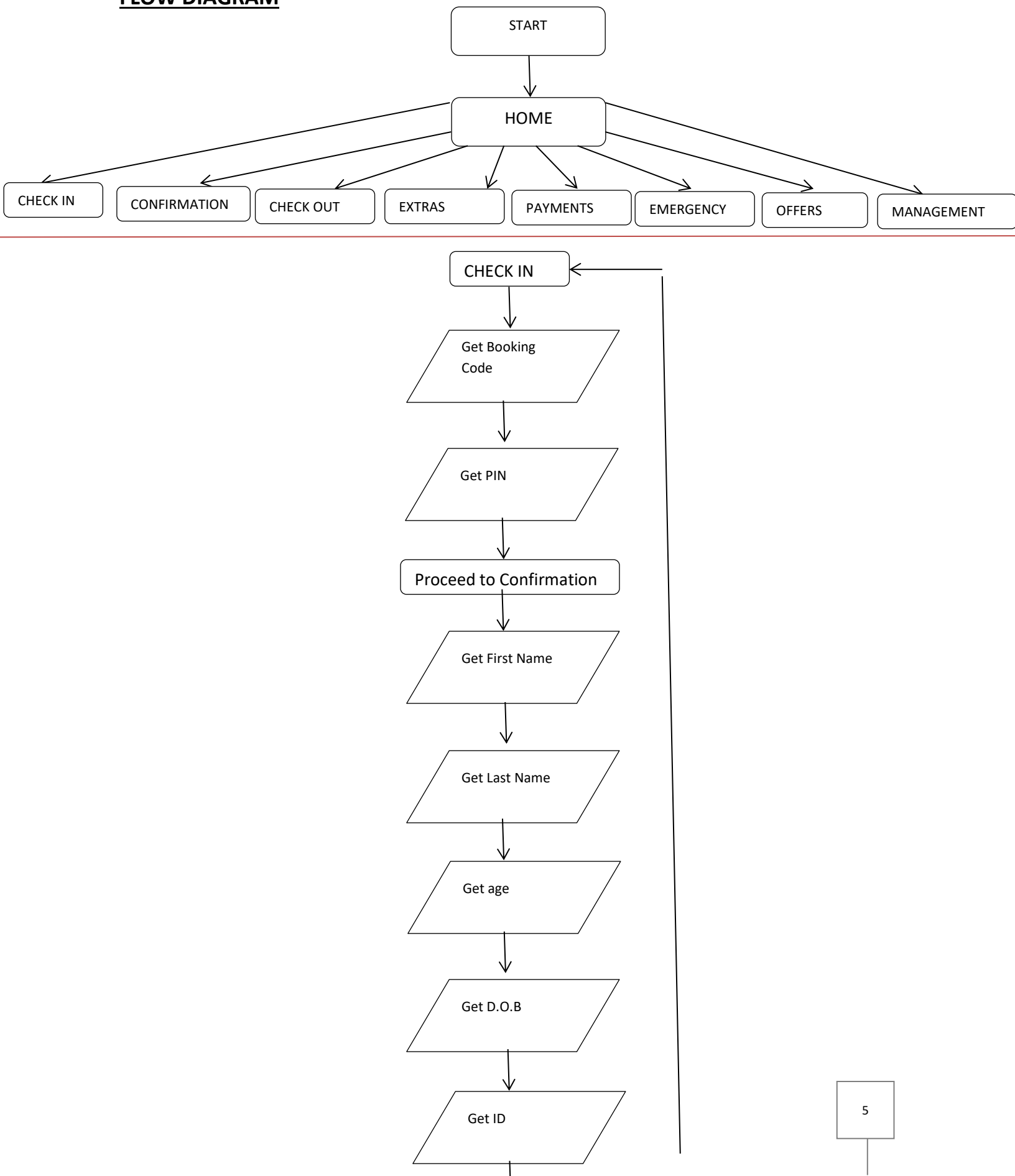
During the traditional check-in process, they have to stand in line and fill out paperwork that often involves information already supplied during the booking. Using the program, I have designed, it will make sure there is organization, money saving and less work needed by the staff themselves.

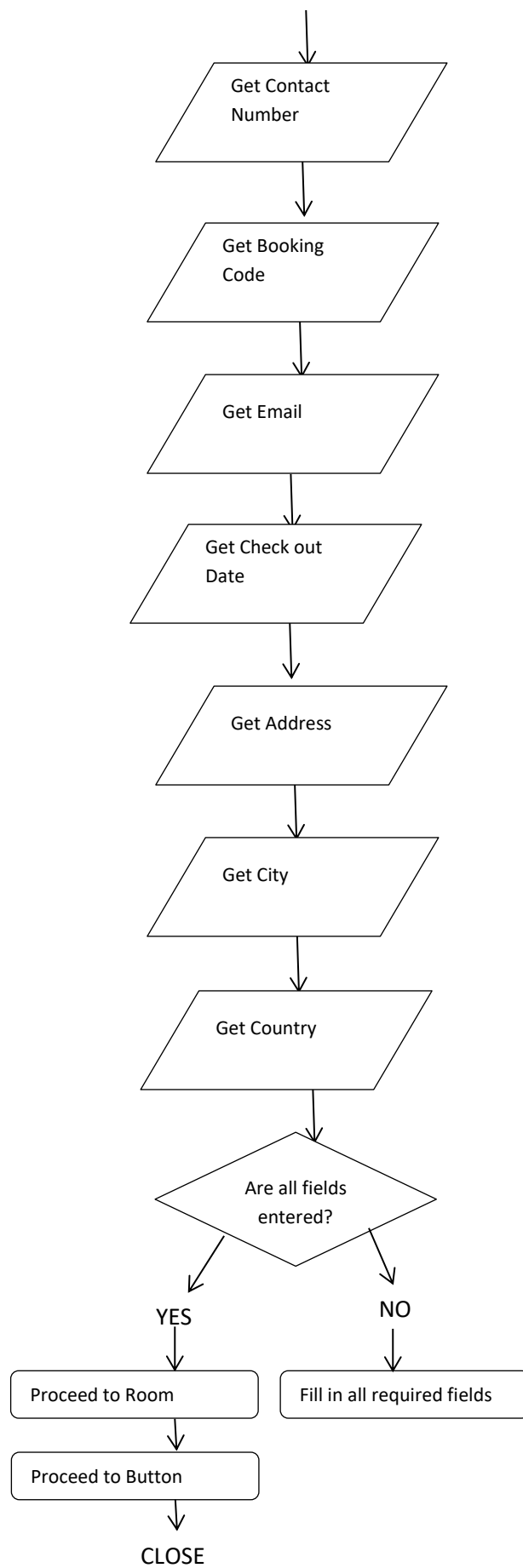
The program will have a main interface, where the guest can choose what they want to do, may it be: Check In, Check Out, do Payments, check what special offers are available and get room service. There will be many help tabs telling the guest what exactly to do as well as good feedback. The second interface will allow the management to access all the guests' information in case a problem is faced.

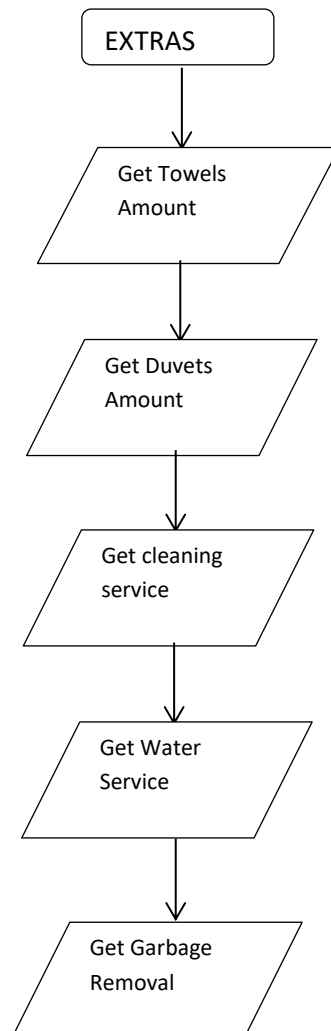
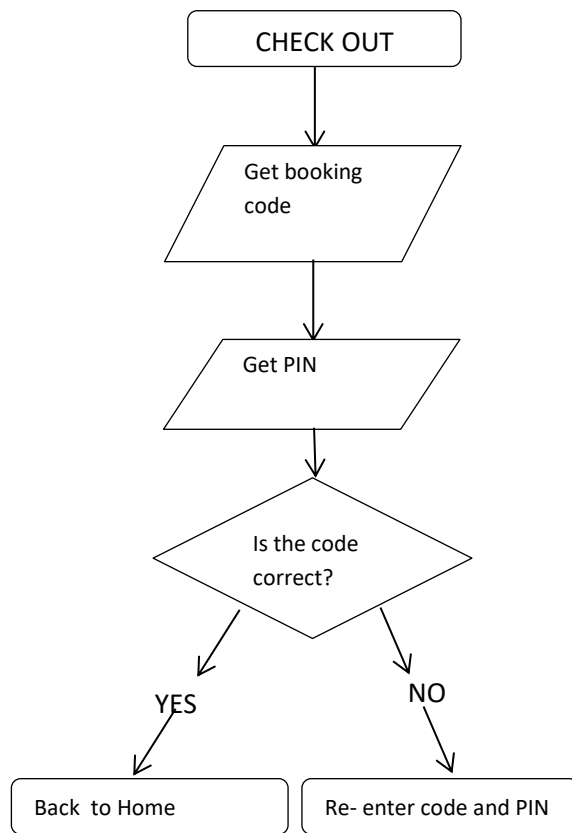
USER REQUIREMENTS

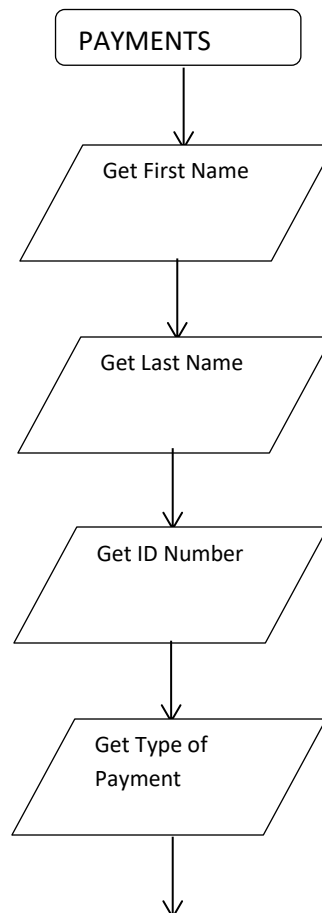
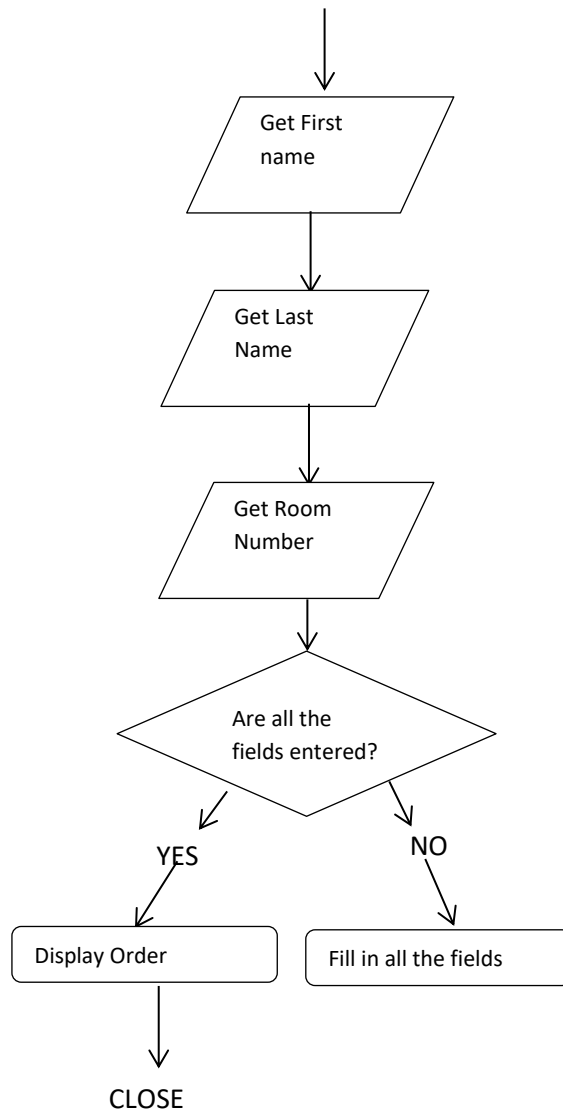


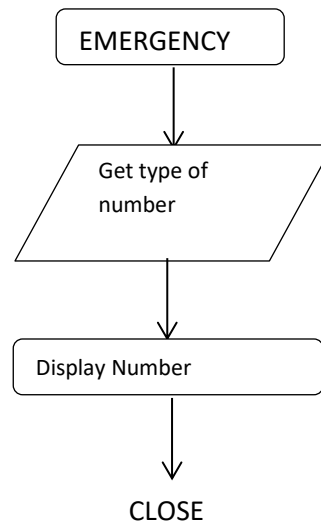
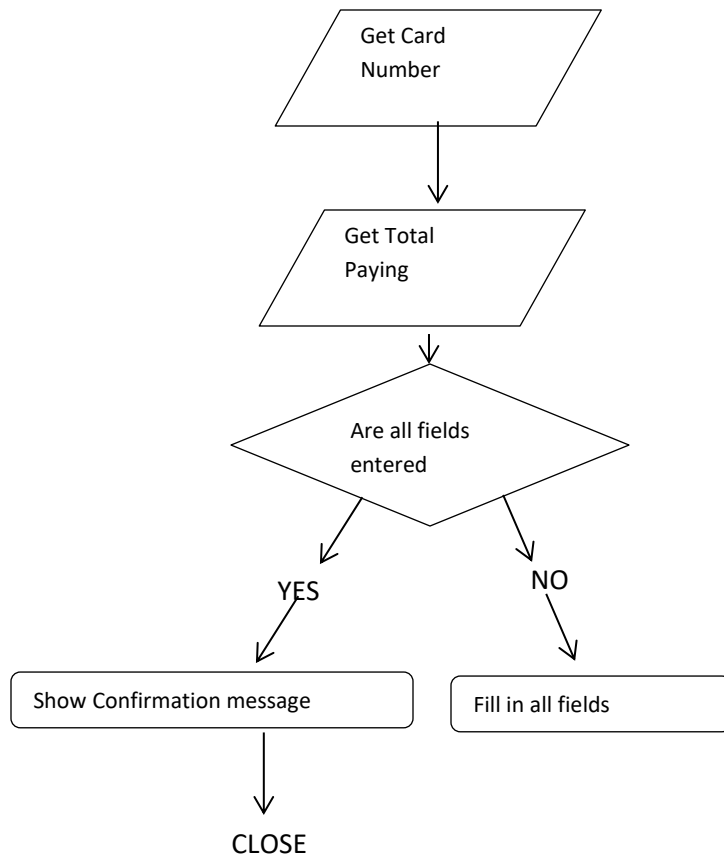
FLOW DIAGRAM

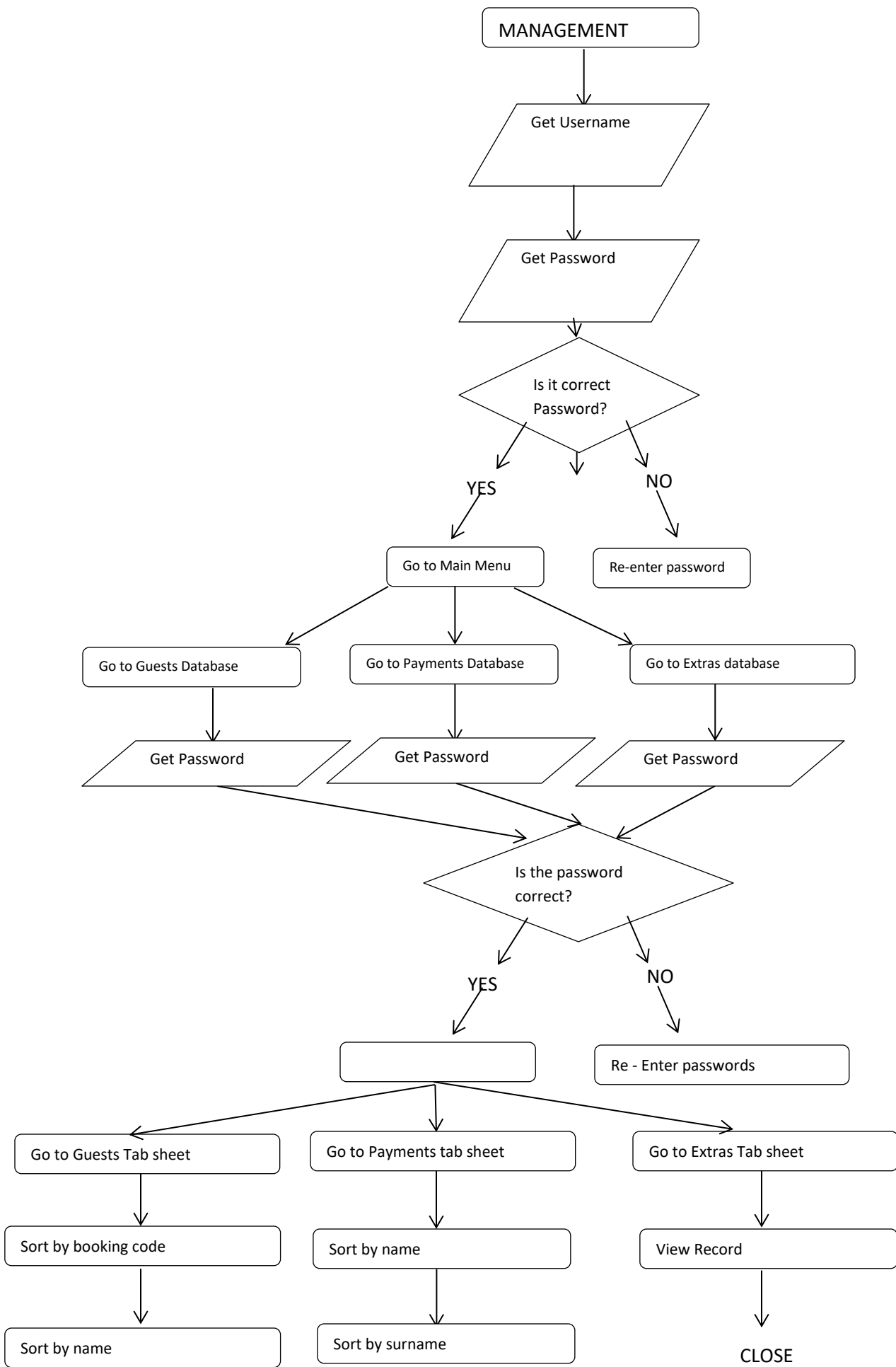


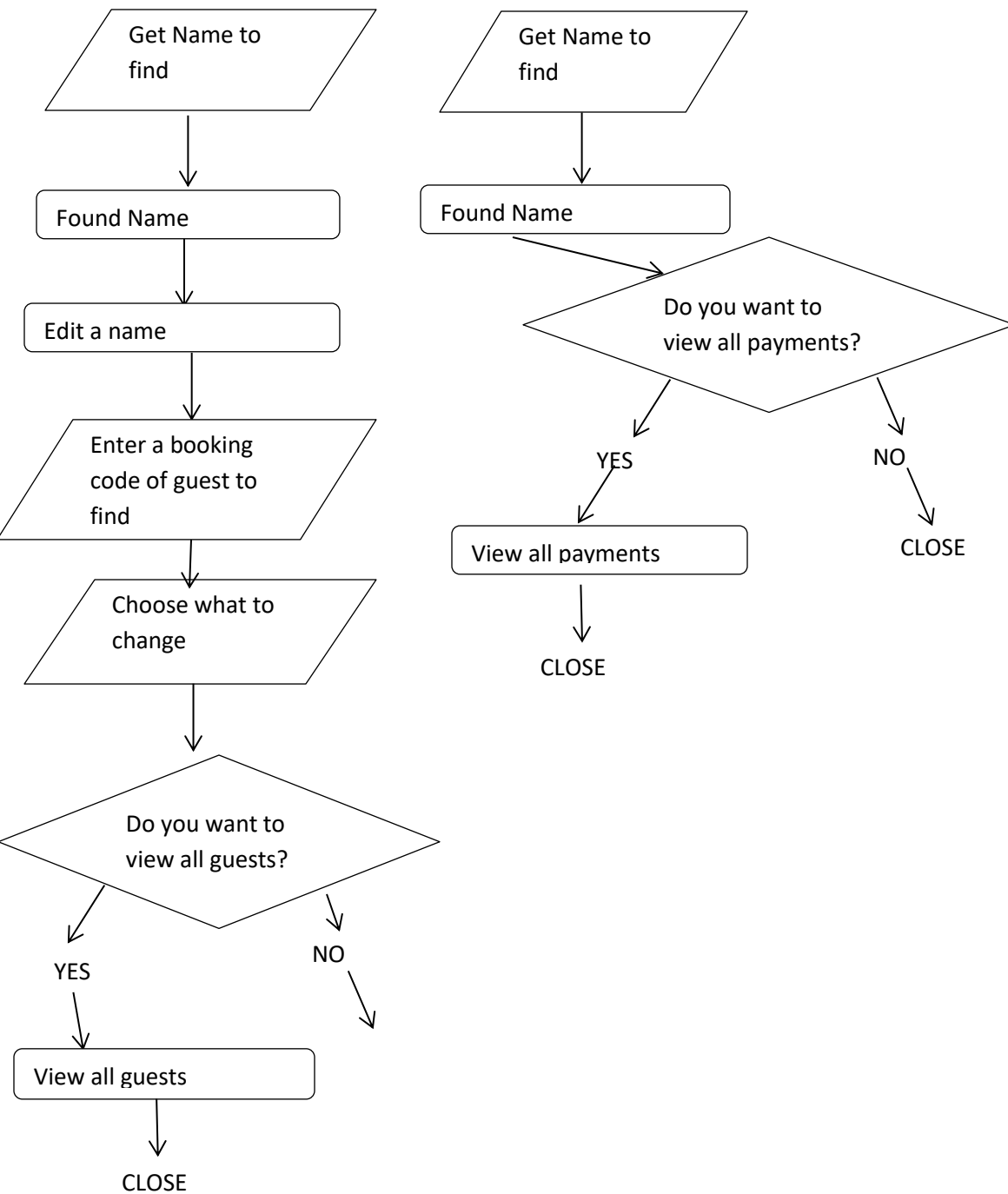












DESIGN - DATABASE

DATABASE - GUESTS

tblGuests

Field Name	Datatype	Size	Description
Booking_Code	Auto		
First_Name	String	20	
Last_Name	String	20	
Date_Of_Birth	String	20	
Age	Integer		
Address	String	20	
Contact_Number	Integer		
Email	String	20	
Arrival	Medium Date		
Check_Out_Date	Medium Date		
City	String	20	
Country	String	20	

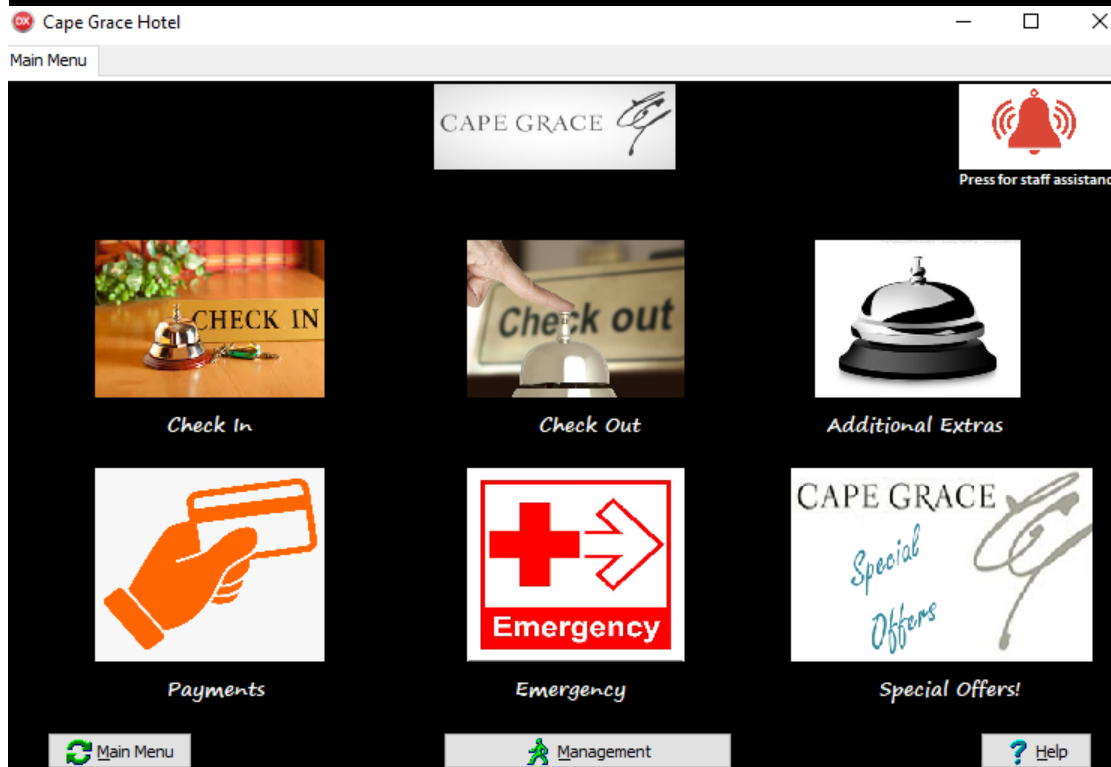
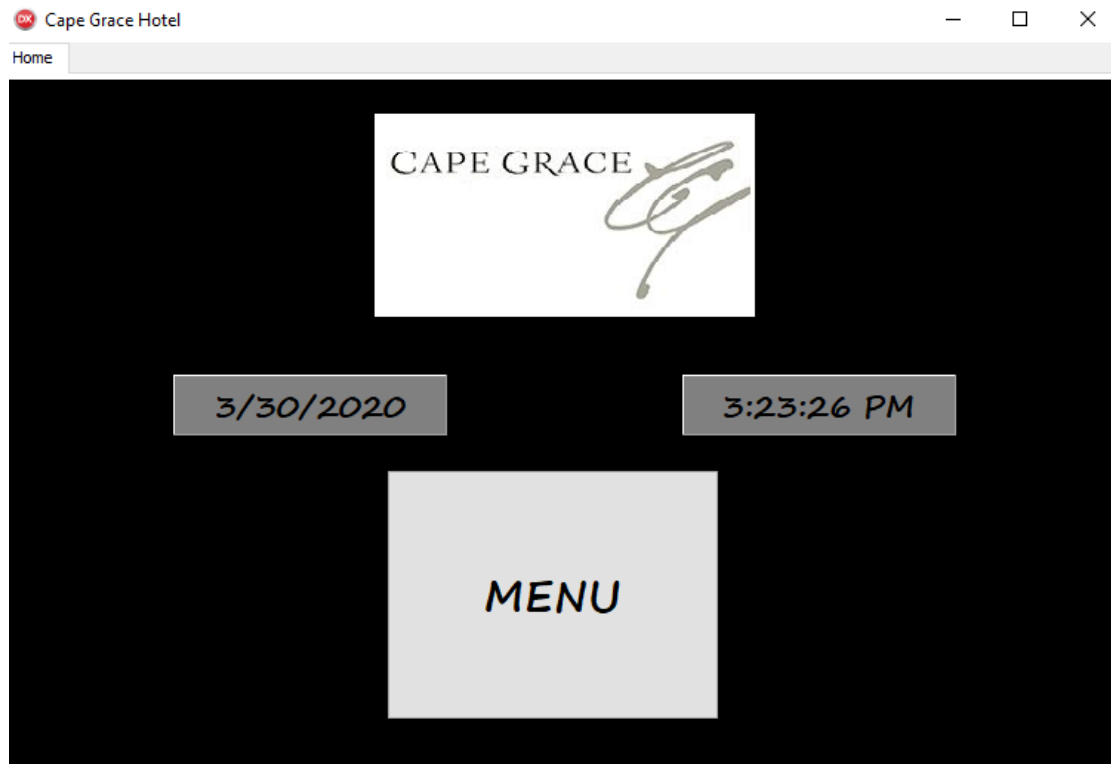
DATABASE - PAYMENTS

tblPayments

Field Name	Datatype	Size	Description
PayMentID (PK)	auto		
Type_of_Payment	string	20	
Card_Number	string	20	
Total_Paying	currency		
ID(FK)	number		

- All Text fields - 20 field size
- All number fields - integer field
- Date/ time fields - Medium date field


DESIGN - GUI




Cape Grace Hotel

Check In

CAPE GRACE

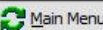
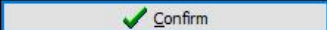
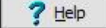
 Press for staff assistance

CHECK IN



Booking Number:


PIN:

 Main Menu  Confirm  Help

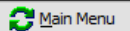
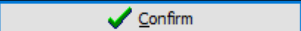

Cape Grace Hotel

Check In

CAPE GRACE



 Press for staff assistance

First Name	<input type="text"/>	Arrival Date	<input type="text" value="3/30/2020"/>
Last Name	<input type="text"/>	Departure Date	<input type="text" value="0"/> <input type="text" value="0"/>
Age	<input type="text" value="0"/>	Address	<input type="text"/>
Date Of Birth	<input type="text" value="0"/> <input type="text" value="0"/>	City	<input type="text"/>
ID	<input type="text"/>	Country	<input type="text"/>
Contact Number	<input type="text"/>		
Booking Code	<input type="text"/>		
Email	<input type="text"/>		


 Main Menu  Confirm  Help

Cape Grace Hotel

Check Out

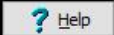
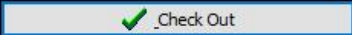



CHECK OUT





Booking Number:

PIN:



Cape Grace Hotel

Additional Extras



ADDITIONAL EXTRAS

☐ Towels

☐ Duvets

☐ Cleaning – Room Service

☐ Water


☐ Garbage Removal



First Name

Last Name

Room Number

Confirm





Cape Grace Hotel

Payments

CAPE GRACE



Press for staff assistance

First Name

Last Name

ID Number

Type of Payment

Payment

☐ Cheque
 ☐ Savinas
 ☐ Credit

Card Number

Total Paying R

Confirm And Pay

Main Menu

Help

Cape Grace Hotel

Emergency

CAPE GRACE



Press for staff assistance

Choose an emergency contact below and the number will be provided

Fire Emergency

Leave your room and close the door behind you to keep smoke and flames out of the corridor. Sound the alarm. Leave

Covid-19

Increased focus on hand hygiene on all of our hotel

Increased cleaning and hygiene protocol

Regular disinfection of exposed surfaces such as door handles, card terminals and elevator buttons with anti-bacterial liquid


Offer disinfectant dispensers in public areas to our guests

Main Menu


Cape Grace Hotel

Special Offers


CAPE GRACE




Press for staff assistance




Situated on the top floor, away from the hustle and bustle below, each room is designed to feel like a private retreat – perfect for those looking to escape from it all. Exhale and enjoy a personalised selection of books in a softly-lit reading area, a walk-in closet and the privacy of the top floor balcony.



Top floor rooms feature French doors that open onto step-out terrace that make the most of the Table Mountain. Special touches like fresh flowers, a reading area with personally selected books and the luxuriously marbled bathroom complete the feeling of being on top of the world, ensconced in private comfort.



Our Table Mountain Luxury Rooms boast glorious views of the iconic Table Mountain or Signal Hill. Enjoy our warm and elegant rooms with personalized details such as an reading area complete with our guests' own book selection.



Main Menu

Cape Grace Hotel Management


Home

CAPE GRACE

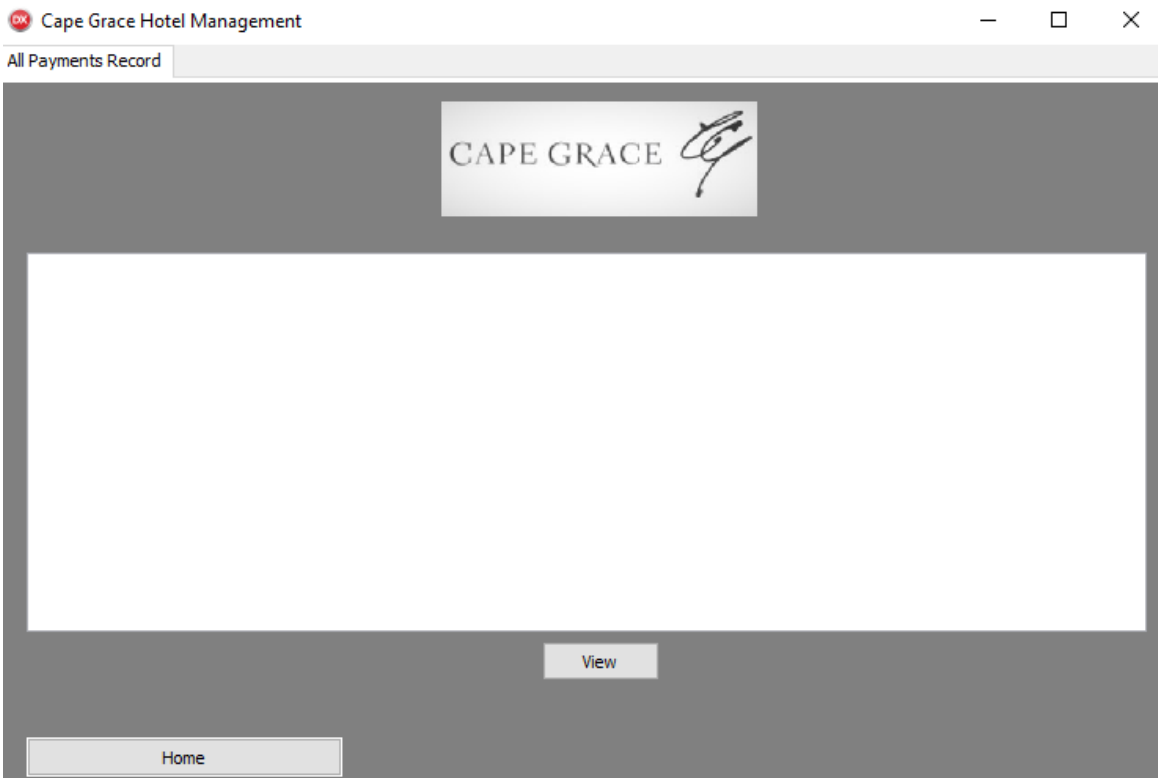
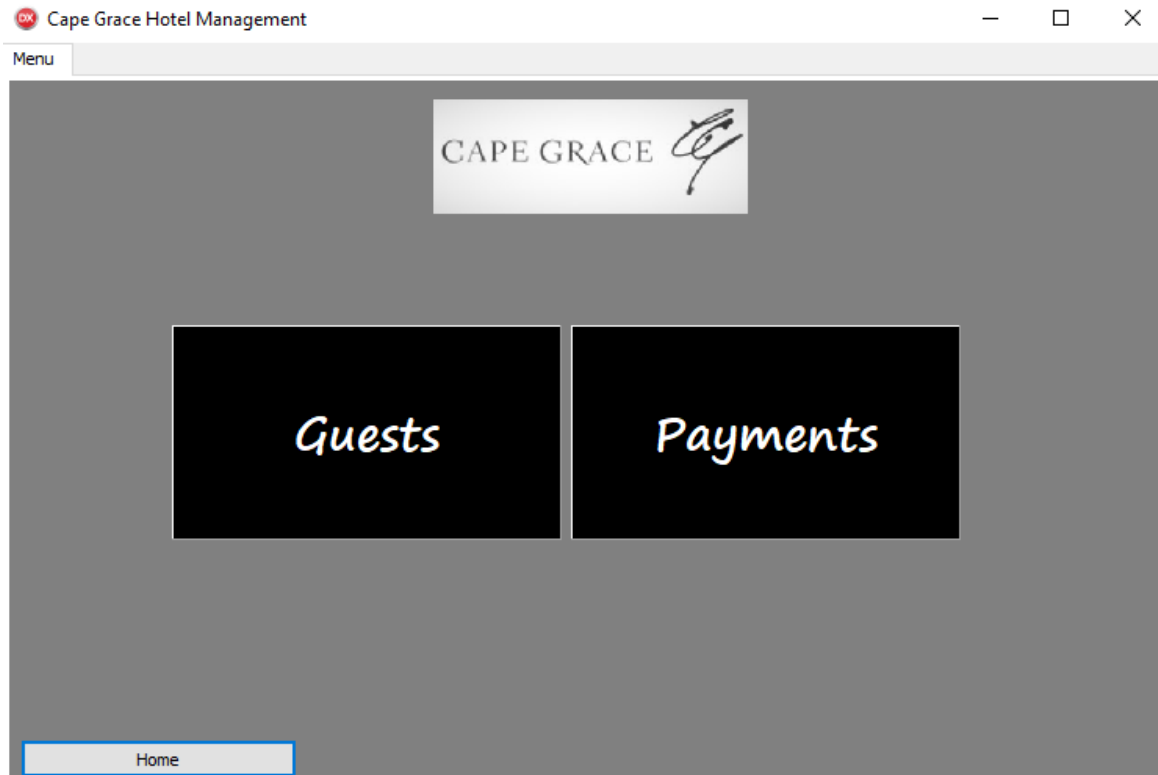
Management

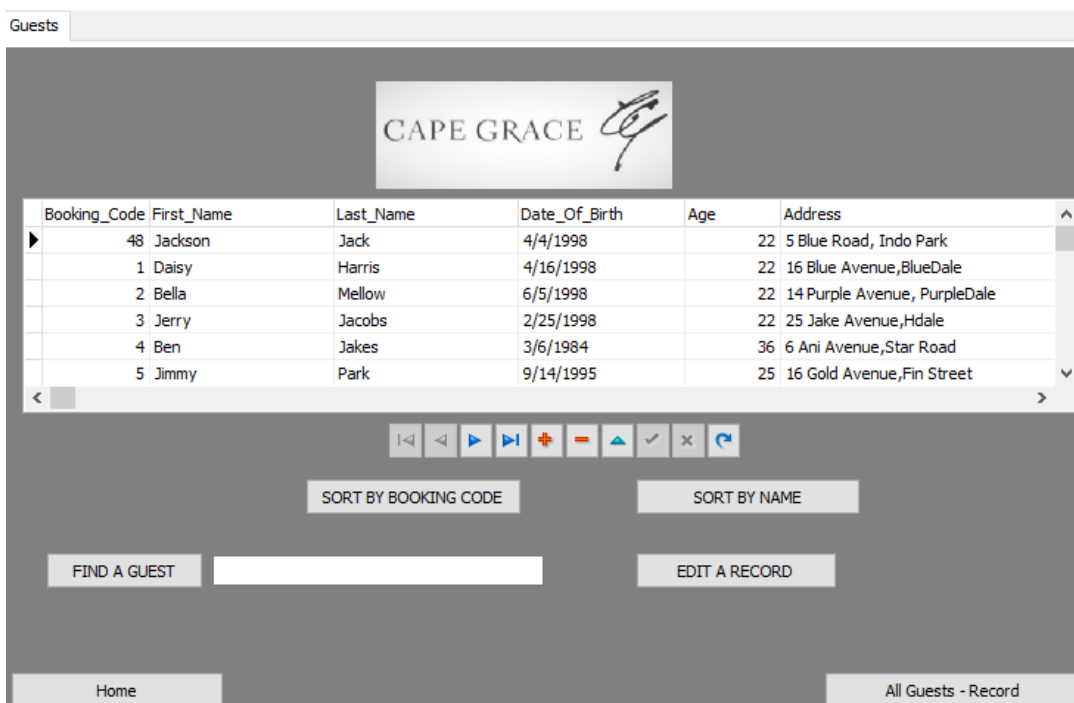
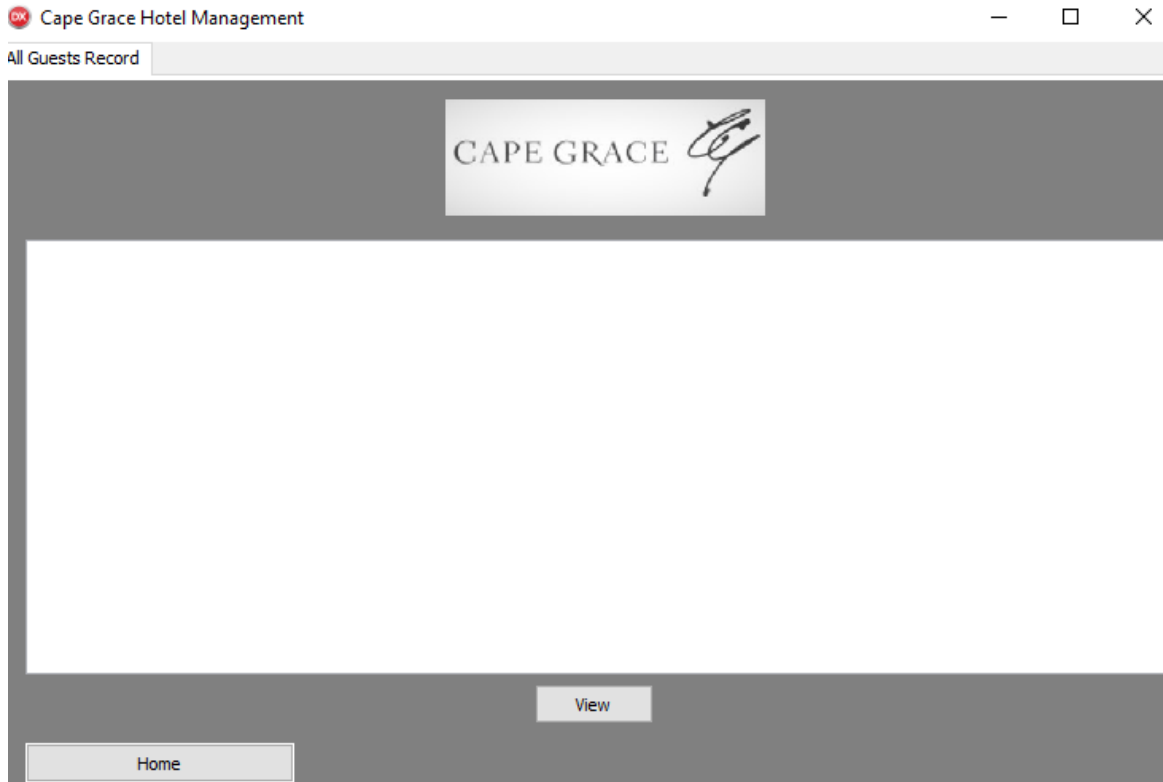
Username

Password



Enter





Cape Grace Hotel Management

Payments

CAPE GRACE

First_Name	Last_Name	ID	Type_of_Payment
Daisy	Harris	5545345415415	Savings
Bella	Mellow	5464562584688	Savings
Jerry	Jacobs	5498649641636	Credit
Ben	Jakes	5184669848696	Credit
Jimmy	Park	6564635263526	Credit
Salma	Jaffer	6541634516385	Cheque

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SORT BY FIRST NAME

SORT BY LAST NAME

FIND

Home

All Payments - Record

DATA DICTIONARY

TEXTFILES

- Extras.txt
- Guests.txt
- Payments.txt

These text files will keep a record of all the guests that has checked into the hotel, all payments the guests have made, and all the pending tasks asked by the guests.

This helps to keep track of what guests, payments, and extra services was asked so that if any guest faces a problem or the hotel picks up any fraudulent information, it will be able to pull up the record and find the problem.

ARRAYS

- Arrays are used to verify whether the PIN that was issued to the guest is correct or not.
- A message will pop up if the PIN is incorrect

DATABASES

- Table 1 (Guests) - As Guests check in, their information will be automatically entered into the database, where the staff management will be able to access the guest's information. When a guest checks out the guest's information will then be deleted off the database
 - Table 2 (Payments) - This will show all the guests accounts and what they still owe, once they make a payment, their names and information will be taken off the database.
 - The database will also be able to sort the guest's information according to how the staff management wants to see it. The staff may also search for a particular guest and their information will now be more elucidate.
-

SOFTWARE TOOL - IPO

INTERFACE 1 - GUESTS

INPUT

<u>INPUT</u>	<u>COMPONENT</u>	<u>DATA TYPE</u>	<u>SOURCE</u>	<u>FORMAT</u>
<u>TABSHEET 3</u>				
The user enters their booking code	TEdit	String	Keyboard Entry	Text
The user enters their PIN	TEdit	String	Keyboard Entry	Text
<u>TABSHEET 4</u>				
First Name	TEdit	String	Keyboard Entry	Text
Last Name	TEdit	String	Keyboard Entry	Text
Age	Spin Edit	Integer	Keyboard Entry Selection	Value
Date of Birth	Spin Edit	Integer	Keyboard Entry Selection	Value
ID	TEdit	String	Keyboard Entry	Text
Contact Number	TEdit	String	Keyboard Entry	Text
Booking Code	TEdit	String	Keyboard Entry	Text
Email	TEdit	String	Keyboard Entry	Text
Check Out Date	Spin Edit	Integer	Keyboard Entry Selection	Value
Address	TEdit	String	Keyboard Entry	Text
City	TEdit	String	Keyboard Entry	Text
Country	TEdit	String	Keyboard Entry	Text
<u>TABSHEET 6</u>				
The user enters their booking	TEdit	String	Keyboard Entry	Text

Code				
The user enters their PIN	TEdit	String	Keyboard Entry	Text
<u>TABSHEET 7</u>				
The guest may want more Towels	Checkbox	Boolean	Mouse Click	Character
The guest can choose how many towels they want	Spin Edit	Integer	Keyboard Entry Selection	Value
The guest may want more Duvets	Checkbox	Boolean	Mouse Click	Character
The guest can choose how many duvets they want	Spin edit	Integer	Keyboard Entry Selection	Value
The guest may want Cleaning - Room Service done	Checkbox	Boolean	Mouse Click	Character
The guest may want Water	Checkbox	Boolean	Mouse Click	Character
The guest may want Garbage Removal	Checkbox	Boolean	Mouse Click	Character
First Name	TEdit	String	Keyboard Entry	Text
Last Name	TEdit	String	Keyboard Entry	Text
Room Number	TEdit	String	Keyboard Entry	Number
<u>TABSHEET 8</u>				
First Name	TEdit	String	Keyboard Entry	Text
Last Name	TEdit	String	Keyboard Entry	Text
ID Number	TEdit	String	Keyboard Entry	Number
Type of Payment	Radio Group	Items	Mouse Click	Text
Card Number	TEdit	String	Keyboard Entry	Number
Total Paying	TEdit	String	Keyboard Entry	Number

TABSHEET 10				
Choose an emergency number	ComboBox	Boolean	Selection	Text

VALIDATION

<u>WHAT WILL BE VALIDATED</u>	<u>ALGORITHM</u>	<u>MESSAGE</u>
<u>CHECK OUT TAB</u>		
If the PIN corresponds to the booking code number	<pre> if iOutPIN <> (arrPIN[iBookOutNum]) then begin ShowMessage('Incorrect PIN'); edtOutBookingNum.Text := ""; edtOutPIN.Text := ""; TabSheet6.Show end else ShowMessage ('You have been successfully checked out of Cape Grace Hotel, We hope you had a wonderful stay and hope to see you soon!!'); TabSheet1.Show; </pre>	'You have been successfully checked out of Cape Grace Hotel, We hope you had a wonderful stay and hope to see you soon!!'
If the fields are empty	<pre> if (edtOutBookingNum.Text = "") OR (edtOutPIN.Text = "") then begin ShowMessage('Please fill in required fields'); TabSheet6.Show End </pre>	'Please fill in required fields'
<u>CHECK IN TAB</u>		
<u>If the pin corresponds to the booking code number</u>	<pre> if iInPIN <> (arrPIN[iBookInNum]) then begin ShowMessage('Incorrect PIN'); edtInBookingNum.Text := ""; edtInPIN.Text := ""; TabSheet3.Show end else TabSheet4.Show; </pre>	'Incorrect PIN'
If the fields are empty	<pre> if (edtInBookingNum.Text = "") OR (edtInPIN.Text = "") then begin ShowMessage('Please fill in required fields'); TabSheet3.Show end else </pre>	'Please fill in required fields'

	TabSheet4.Show;	
<u>TABSHEET CONFIRMATIONS DETAILS</u>		
If the ID number is 13 digits	if Length(edtID.Text) <> 13 then ShowMessage('Incorrect ID'); TabSheet4.Show; edtID.SetFocus;	'Incorrect ID'
<u>TABSHEET EXTRAS</u>		
If all the fields are not entered	if (edtExtraName.Text = "") OR (edtExtraSurname.Text = "") OR (edtExtraRoom.Text = "") then begin ShowMessage('Please fill in all required fields'); TabSheet7.Show;	'Please fill in all required fields'
<u>PAYMENTS TAB</u>		
If the ID number is 13 digits	if Length(edtPayID.Text) <> 13 then ShowMessage('Incorrect ID'); TabSheet8.Show;	
If all the fields are not entered	if (edtPayName.Text = "") OR (edtPaySurname.Text = "") OR (edtPayID.Text = "") OR (rgpCard.ItemIndex = -1) OR (edtPayCard.Text = "") OR (edtPayTotal.Text = "") then begin ShowMessage('Please fill in all required fields'); TabSheet8.Show end else ShowMessage ('Your payment has been authorized, you will receive an SMS to confirm the transaction'); TabSheet1.Show;	'Your payment has been authorized, you will receive an SMS to confirm the transaction' 'Please fill in all required fields'

PROCESSING

<u>WHAT WILL BE PROCESSED</u>	<u>ALGORITHMS</u>
<u>TABSHEET 3</u>	
Once the guest has successfully checked in with their booking code and PIN, the arrival date will automatically be visible as the date they	edtArrival.Text := DateToStr(Date);

checked in	
<u>TABSHEET 4</u>	
The information the guest entered will be stored in a text file which will be accessed by the management	<pre> AssignFile(tGuests, 'Guests.txt'); Append(tGuests); Writeln(tGuests, sTextName); Writeln(tGuests, sTextSurname); Writeln(tGuests, sTextAge); Writeln(tGuests, sTextBirthday); Writeln(tGuests, sTextID); Writeln(tGuests, sTextEmail); Writeln(tGuests, sTextNumber); Writeln(tGuests, sTextBookingCode); Writeln(tGuests, sTextAddress); Writeln(tGuests, sTextArrival); Writeln(tGuests, sTextCity); Writeln(tGuests, sTextCountry); Writeln(tGuests, sTextArrival); Writeln(tGuests, sTextDeparture); Writeln(tGuests, '-----'); CloseFile(tGuests); </pre>
Making the room number visible	<pre> randomize; edtRoom.Text := IntToStr(Random(400)); TabSheet5.Show; </pre>
As the guests enter their information and check in their information will automatically be entered into the hotels database	<pre> dmCapeGrace.tblGuests.Last; dmCapeGrace.tblGuests.Insert; dmCapeGrace.tblGuests['First_Name'] := edtName.Text; dmCapeGrace.tblGuests['Last_Name'] := edtSurname.Text; dmCapeGrace.tblGuests['Date_Of_Birth'] := sBirthday; dmCapeGrace.tblGuests['Age'] := spnAge.value; dmCapeGrace.tblGuests['Address'] := edtAddress.Text; dmCapeGrace.tblGuests['Contact_Number'] := edtContactNumber.Text; dmCapeGrace.tblGuests['Email'] := edtEmail.Text; dmCapeGrace.tblGuests['Arrival'] := edtArrival.Text; dmCapeGrace.tblGuests['Check_Out_Date'] := sDeparture; dmCapeGrace.tblGuests['City'] := edtCity.Text; dmCapeGrace.tblGuests['Country'] := edtCountry.Text; dmCapeGrace.tblGuests.Post; // adding new records to the database PAYMENTS dmCapeGrace.tblPayments.Last; dmCapeGrace.tblPayments.Insert; dmCapeGrace.tblPayments['ID'] := edtID.Text; dmCapeGrace.tblPayments['Total_Paying'] := StrToFloat(lblRoomName.Caption); dmCapeGrace.tblPayments['Card_Number'] := sCardNum; </pre>

	<pre>dmCapeGrace.tblPayments['Type_Of_Payment'] := 'Credit'; dmCapeGrace.tblPayments.Post;</pre>
<u>TABSHEET 5</u>	
The guest has to press a blue button to activate the scanner so that the key card will be scanned with the room number	Beep;
<u>TABSHEET 6</u>	
The user is ready to check out after they enter their booking code and PIN, but for the management to know that the guest has checked out, the information of that guest will be deleted in the database	<pre>with dmCapeGrace do begin if (dmCapeGrace.tblGuests.Locate('First_Name', edtNameCheckOut.Text, []) = true) AND (dmCapeGrace.tblGuests.Locate('Last_Name', edtSurnameCheckOut.Text, []) = true) then begin dmCapeGrace.tblGuests.Delete; end; if tblPayments['PaymentID'] = edtOutBookingNum.Text then tblPayments .Delete;</pre>
<u>TABSHEET 7</u>	
A dynamic button will appear once the guest has confirmed the order	<pre>btnAgree := TButton.Create(btnConfirmDetails); with btnAgree do begin Caption := 'Ágree'; Height := 25; Width := 75; Top := 448; Left := 304; Parent := Panel7; OnClick := btnAgreeClick; End;</pre>
This information is also automatically written in a text file so that the hotel has a record of the pending tasks	<pre>AssignFile(tExtras, 'Extras.txt'); Append(tExtras); Writeln(tExtras, sTextExtraName); Writeln(tExtras, sTextExtraSurname); Writeln(tExtras, sTextExtraRoom); Writeln(tExtras, sTextExtraExtras); Writeln(tExtras, '_____'); CloseFile(tExtras);</pre>
<u>TABSHEET 8</u>	

This information is automatically written in a text file so that the hotel has a record of the payments the guest has made	AssignFile(tPayments, 'Payments.txt'); Append(tPayments); Writeln(tPayments, sTextPayName); Writeln(tPayments, sTextPaySurname); Writeln(tPayments, sTextID); Writeln(tPayments, sTextCardType); Writeln(tPayments, sTextCardNum); Writeln(tPayments, sTextTotal); Writeln(tPayments, '_____'); CloseFile(tPayments);
By the guest paying and confirming, their details will now need to be taken off the payments database so that it's easier for the hotel to see the guests still owing money	with dmCapeGrace do begin if tblPayments['ID']= edtPayID.Text then begin tblPayments.Delete; end; end;

Dynamic Component - Button (Tab sheet 7)

OUTPUT

<u>WHAT WILL BE DISPLAYED</u>	<u>FORMAT</u>	<u>COMPONENT</u>
<u>TABSHEET 7</u>		
If the user wants any extra amenities they will have to choose and fill in their details so that the staff will know which room to deliver it to, the guest will be able to confirm their order	memExtras.Lines.Add('Request'); memExtras.Lines.Add('Name: ' + sExtraName); memExtras.Lines.Add('Surname: ' + sExtraSurname); memExtras.Lines.Add('Room: ' + IntToStr(iExtraRoomNumber)); memExtras.Lines.Add('_____'); ; memExtras.Lines.Add('Extras'); memExtras.Lines.Add(sExtra);	Memo
<u>TABSHEET 10</u>		
The emergency number the guest selected will now be visible	case cmbEmergency.ItemIndex of 0: pnlEmergencyNumber.Caption := '10111'; 1:	Panel

	pnlEmergencyNumber.Caption := '10177'; 2: pnlEmergencyNumber.Caption := '021 434 2020'; 3: pnlEmergencyNumber.Caption := '086 155 5777'; end;	
--	---	--

INTERFACE 2 - MANAGEMENT

INPUT

<u>INPUT</u>	<u>COMPONENT</u>	<u>DATA TYPE</u>	<u>SOURCE</u>	<u>FORMAT</u>
<u>TABSHEET 1</u>				
Username	TEdit	String	Keyboard Entry	Text
Password	TEdit	String	Keyboard Entry	Text
<u>TABSHEET 2</u>				
Guest Password	Input Box	String	Keyboard Entry	Text
Payments Password	Input Box	String	Keyboard Entry	Text
Extras Password	Input Box	String	Keyboard Entry	Text
<u>TABSHEET 3</u>				
A guests name	TEdit	String	Keyboard Entry	Text
<u>TABSHEET 5</u>				
A guests name	TEdit	String	Keyboard Entry	Text

VALIDATION

<u>WHAT WILL BE VALIDATED</u>	<u>ALGORITHM</u>	<u>MESSAGE</u>
<u>TABSHEET 1</u>		
Checks whether the password and username are correct	<pre> if (edtUsername.Text <> 'CGM') OR (edtPassword.Text <> 'CG160919') then begin ShowMessage ('Username or Password is not correct, Please Re-enter your username and password'); Tab1.Show end else Tab1.TabVisible := false; Tab2.TabVisible := true; Tab2.Visible := true; Tab3.TabVisible := false; Tab4.TabVisible := false; Tab5.TabVisible := false; Tab6.TabVisible := false; end; </pre>	'Username or Password is not correct, Please Re-enter your username and password'
<u>TABSHEET 2</u>		
<u>Checks whether the Extras Password is correct</u>	<pre> sExtrasPassword := InputBox('Guests', 'Please enter the Password', ''); // validation if (sExtrasPassword = 'CGE') then begin Tab1.TabVisible := false; Tab2.TabVisible := false; Tab3.TabVisible := false; Tab4.TabVisible := false; Tab5.TabVisible := false; Tab6.TabVisible := false; Tab7.TabVisible := true; Tab7.Visible := true; end else ShowMessage('Incorrect Password'); </pre>	'Incorrect Password'
<u>Checks whether the Guests password is correct</u>	<pre> sGuestsPassword := InputBox('Guests', 'Please enter the Password', ''); // validation if (sGuestsPassword = 'CGG') then begin Tab1.TabVisible := false; Tab2.TabVisible := false; </pre>	'Incorrect Password'

	<pre> Tab3.TabVisible := true; Tab3.Visible := true; Tab4.TabVisible := false; Tab5.TabVisible := false; Tab6.TabVisible := false; Tab7.TabVisible := false; end else ShowMessage('Incorrect Password'); end; </pre>	
<u>Checks whether the Payments password is correct</u>	<pre> sPaymentsPassword := InputBox('Payments', 'Please enter the Password', ''); // validation if (sGuestsPassword = 'CGP') then begin Tab1.TabVisible := false; Tab2.TabVisible := false; Tab3.TabVisible := false; Tab4.TabVisible := false; Tab5.TabVisible := true; Tab5.Visible := true; Tab6.TabVisible := false; Tab7.TabVisible := false; end else ShowMessage('Incorrect Password'); End; </pre>	'Incorrect Password'

PROCESSING

<u>WHAT WILL BE PROCESSED</u>	<u>ALGORITHMS</u>
<u>TABSHEET 3</u>	
The staff can sort the guests according to their arrival	dmCapeGrace.tblGuests.Sort := 'Arrival ASC';
The staff can sort the guests according to their name (Ascending order)	dmCapeGrace.tblGuests.Sort := 'First_Name ASC';
The staff can find a specific guest by just typing their name in	<pre> sFind := edtFind.Text; if dmCapeGrace.tblGuests.Locate('First_Name', sFind, []) = true then begin ShowMessage('Found! ' + dmCapeGrace.tblGuests['First_Name'] + ' is currently staying at Cape Grace Hotel!'); end </pre>

	<pre> end else begin ShowMessage('Guest Not Found!'); end; </pre>
The Staff can edit a specific guest's information	<pre> iBookingCodeEdit := StrToInt(TextBox('Booking Code', 'Enter a Booking Code you want to change', '5')); sWhat := TextBox('Field To Change', 'Enter what field you want to change', 'First_Name'); if sWhat = 'First_Name' then begin sFirstNameEdit := TextBox('Name', 'Enter a name you want to change', 'Jerry'); dmCapeGrace.tblGuests.Edit; dmCapeGrace.tblGuests['First_Name'] := sFirstNameEdit; dmCapeGrace.tblGuests.Post; end else if sWhat = 'Last_Name' then begin sLastNameEdit := TextBox('Surname', 'Enter a surname you want to change', ''); dmCapeGrace.tblGuests.Edit; dmCapeGrace.tblGuests['Last_Name'] := sLastNameEdit; dmCapeGrace.tblGuests.Post; end else if sWhat = 'Date_Of_Birth' then begin sDateOfBirthEdit := TextBox('Birth Date', 'Enter a Birth Date you want to change', ''); dmCapeGrace.tblGuests.Edit; dmCapeGrace.tblGuests['Date_Of_Birth'] := sDateOfBirthEdit; dmCapeGrace.tblGuests.Post; end else if sWhat = 'Age' then begin iAgeEdit := StrToInt(TextBox('Age', 'Enter an Age you want to change', '')); dmCapeGrace.tblGuests.Edit; dmCapeGrace.tblGuests['Age'] := iAgeEdit; dmCapeGrace.tblGuests.Post; end else if sWhat = 'Address' then begin </pre>


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sAddressEdit := InputBox('Address',
  'Enter a address you want to change', '');
dmCapeGrace.tblGuests.Edit;
dmCapeGrace.tblGuests['Address'] := sAddressEdit;
dmCapeGrace.tblGuests.Post;
end

else if sWhat = 'Contact_Number' then
begin
sContactNumberEdit := InputBox('Contact Number',
  'Enter a contact number you want to change', '');
dmCapeGrace.tblGuests.Edit;
dmCapeGrace.tblGuests['Contact_Number'] := sContactNumberEdit;
dmCapeGrace.tblGuests.Post;
end

else if sWhat = 'Email' then
begin
sEmailEdit := InputBox('Email', 'Enter a email you you want to change', '');
dmCapeGrace.tblGuests.Edit;
dmCapeGrace.tblGuests['Email'] := sEmailEdit;
dmCapeGrace.tblGuests.Post;
end

else if sWhat = 'Arrival' then
begin
sArrivalEdit := InputBox('Arrival',
  'Enter a arrival date you want to change', '');
dmCapeGrace.tblGuests.Edit;
dmCapeGrace.tblGuests['Arrival'] := sArrivalEdit;
dmCapeGrace.tblGuests.Post;
end

else if sWhat = 'Check_Out_Date' then
begin
sCheckOutEdit := InputBox('Check Out Date',
  'Enter a Check Out date you want to change', '');
dmCapeGrace.tblGuests.Edit;
dmCapeGrace.tblGuests['Check_Out_Date'] := sCheckOutEdit;
dmCapeGrace.tblGuests.Post;
end

else if sWhat = 'City' then
begin
sCityEdit := InputBox('City', 'Enter a city you want to change', '');
dmCapeGrace.tblGuests.Edit;
dmCapeGrace.tblGuests['City'] := sCityEdit;
dmCapeGrace.tblGuests.Post;

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	<pre> end else if sWhat = 'Country' then begin sCountryEdit := InputBox('Country', 'Enter a country you want to change', ''); dmCapeGrace.tblGuests.Edit; dmCapeGrace.tblGuests['Country'] := sCountryEdit; dmCapeGrace.tblGuests.Post; </pre>
<u>TABSHEET 4</u>	
The staff will be able to access the text file holding all the guests information that has ever stayed at the hotel	<pre> AssignFile(tGuests, 'Guests.txt'); try Reset(tGuests); except ShowMessage('File not found'); Exit end; while NOT Eof(tGuests) do begin Readln(tGuests, sLine); redGuests.Lines.Add(sLine); end; CloseFile(tGuests); </pre>
<u>TABSHEET 5</u>	
The staff can sort the guests according to their Payment ID	<pre> dmCapeGrace.tblPayments.Sort := 'PaymentID ASC'; </pre>
The staff can sort the guests according to the type of Payment	<pre> dmCapeGrace.tblPayments.Sort := 'Type_of_payment ASC'; </pre>
The staff can find a specific guest by just typing their name in	<pre> sFindPayments := edtFindPayments.Text; if dmCapeGrace.tblPayments.Locate('ID', sFindPayments, []) = true then begin ShowMessage('Found! ' + dmCapeGrace.tblPayments['ID'] + ' account is still owing'); end else begin ShowMessage('Guest Not Found!'); end; </pre>

OUTPUT

<u>WHAT WILL BE DISPLAYED</u>	<u>FORMAT</u>	<u>COMPONENT</u>
<u>TABSHEET 4</u>		
The staff will be able to access the text file holding all the guests information that has ever stayed at the hotel	<pre>AssignFile(tGuests, 'Guests.txt'); try Reset(tGuests); except ShowMessage('File not found'); Exit end; while NOT Eof(tGuests) do begin Readln(tGuests, sLine); redGuests.Lines.Add(sLine); end; CloseFile(tGuests);</pre>	RichEdit
<u>TABSHEET 6</u>		
The staff will be able to access the text file holding all the payments of the guests	<pre>AssignFile(tPayments, 'Payments.txt'); try Reset(tPayments); except ShowMessage('File not found'); Exit end; while NOT Eof(tPayments) do begin Readln(tPayments, sPayLine); redPayments.Lines.Add(sPayLine); end; CloseFile(tPayments);</pre>	RichEdit
<u>TABSHEET 7</u>		
The staff will be able to access the text file holding all the Extras the guests had ordered	<pre>AssignFile(tExtras, 'Extras.txt'); try Reset(tExtras); except ShowMessage('File not found'); Exit end; while NOT Eof(tExtras) do begin Readln(tExtras, sExtraLine); redPayments.Lines.Add(sExtraLine);</pre>	RichEdit

	<code>end; CloseFile(tExtras);</code>	
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