

Hotel Reservation System

Team members -

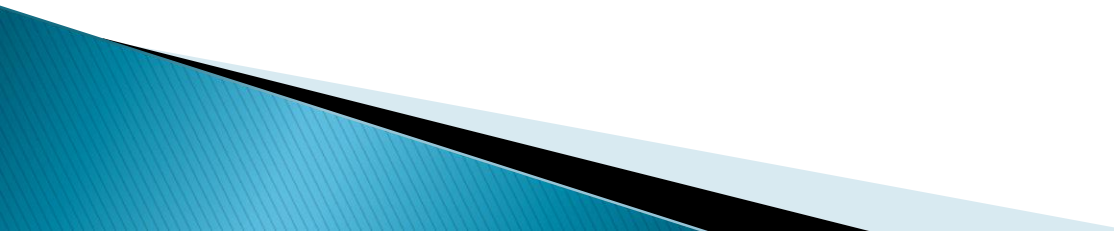
Asifa Anjum

Sonia Rai

Rhema Livingstone

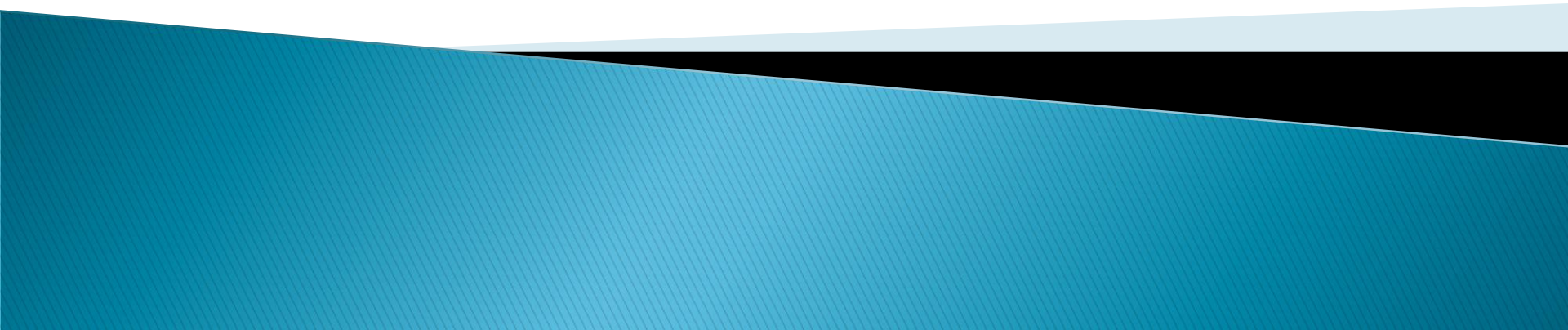
A decorative graphic element in the bottom-left corner of the slide, consisting of overlapping blue and black geometric shapes.

Content

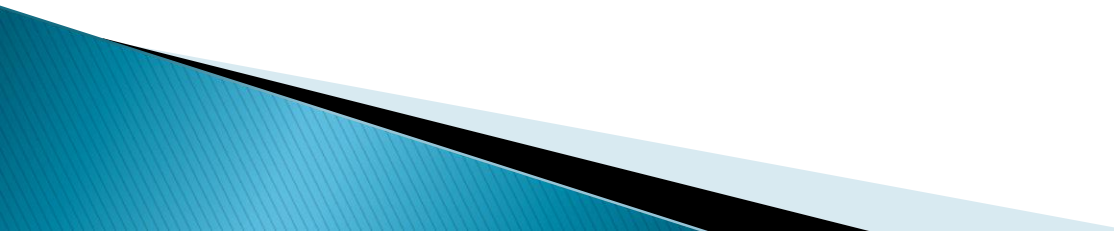
- ▶ Abstract
 - ▶ Existing System
 - ▶ Objective
 - ▶ Technology
 - ▶ Database diagram
 - ▶ Application Screens
 - ▶ Advantages
 - ▶ Scope of future application
 - ▶ Conclusion
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ABSTRACT

The objective of the project is to automate hotel reservation. It allows hotel staff to perform elementary operations related to this process:

- ▶ Give a potential customer's preference, check room availability
 - ▶ Manage customer information
 - ▶ Manage room reservations - check-in, check-out etc
 - ▶ Add charges – room service and restaurant bills
- 

Existing System

- ▶ Presently, the hotel staff uses computer as a medium to save customer information, check room's availability, make or change booking, do check-out and billing. However, they do it by using some word processing and spreadsheet documents.
 - ▶ The data is difficult to handle accurately
 - ▶ Storage and retrieval issues for customer data
 - ▶ A lot of effort is required to generate meaningful reports from the past data.
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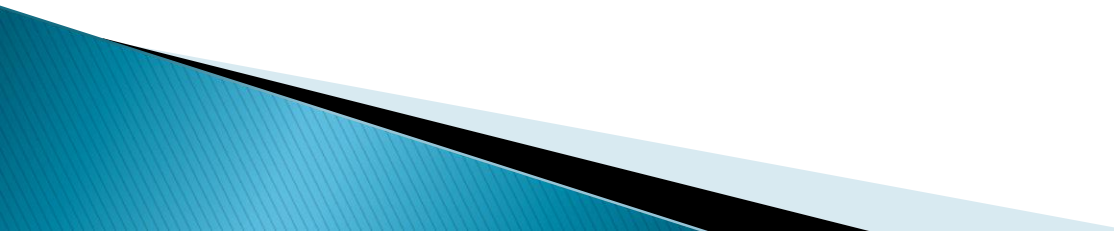
Objective

- ▶ To build an automated hotel reservation system to overcome existing problems

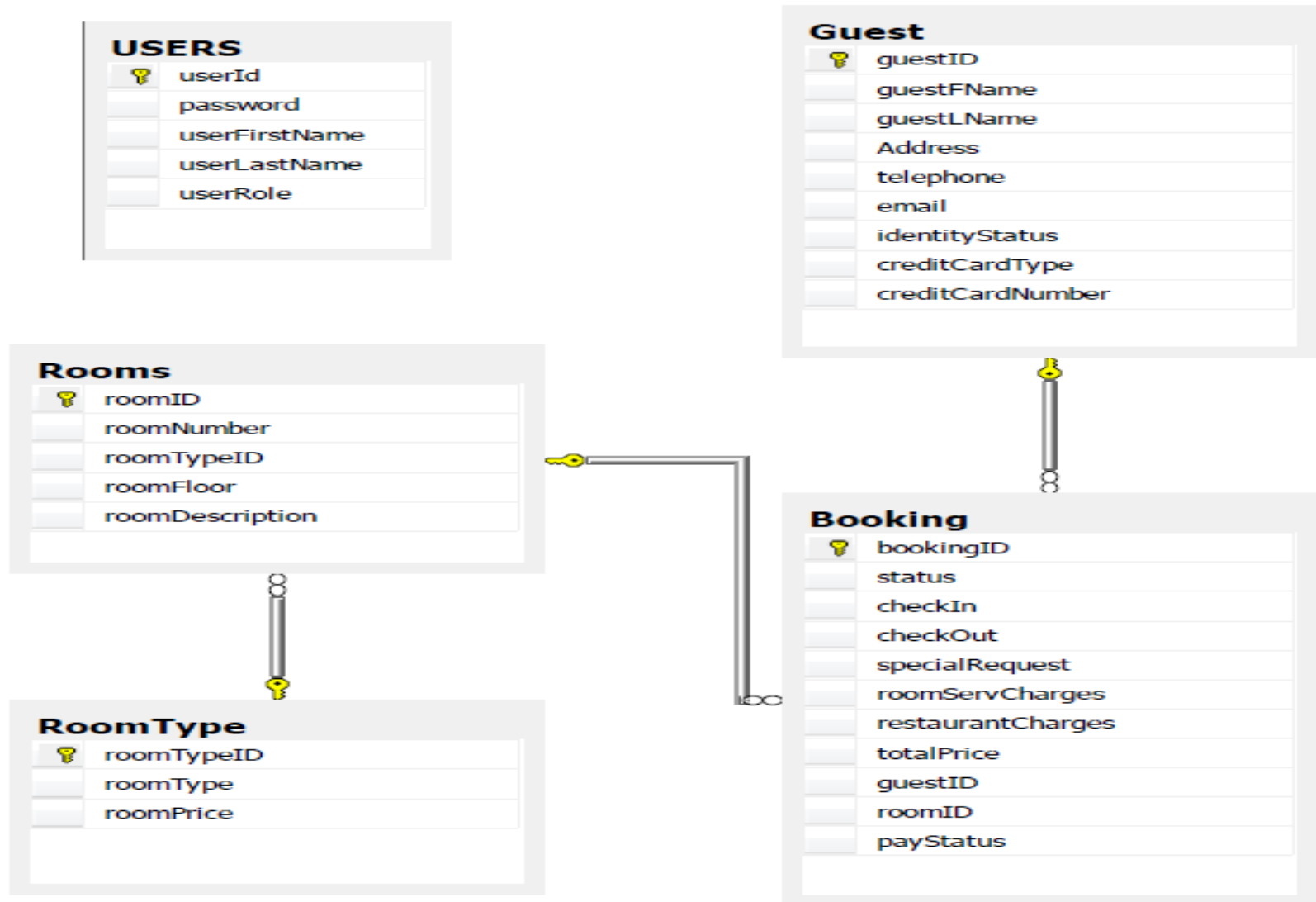
Technology

- ▶ Front End (GUI) and Business logic –
 - C# programming language
- ▶ Integrated Development Environment –
 - Microsoft Visual Studio 2010 Developer edition
- ▶ Back-End (database) –
 - Microsoft SQL Server 2008 R2
- ▶ Operating System –
 - Windows7
- ▶ Application and database connectivity (On system where we need to run the application) –
 - ADO.Net – ODBC classes and Data Source (ODBC) connection using SQL Server Native client 10.0 driver

Out of Scope

- ▶ Customer direct access to the system
 - ▶ Browser based access over internet
 - ▶ Encryption of customer's sensitive information like password, personal details and credit card
 - ▶ Integration with payment gateways to authorize and charge payments on credit cards.
- 

Database Diagram



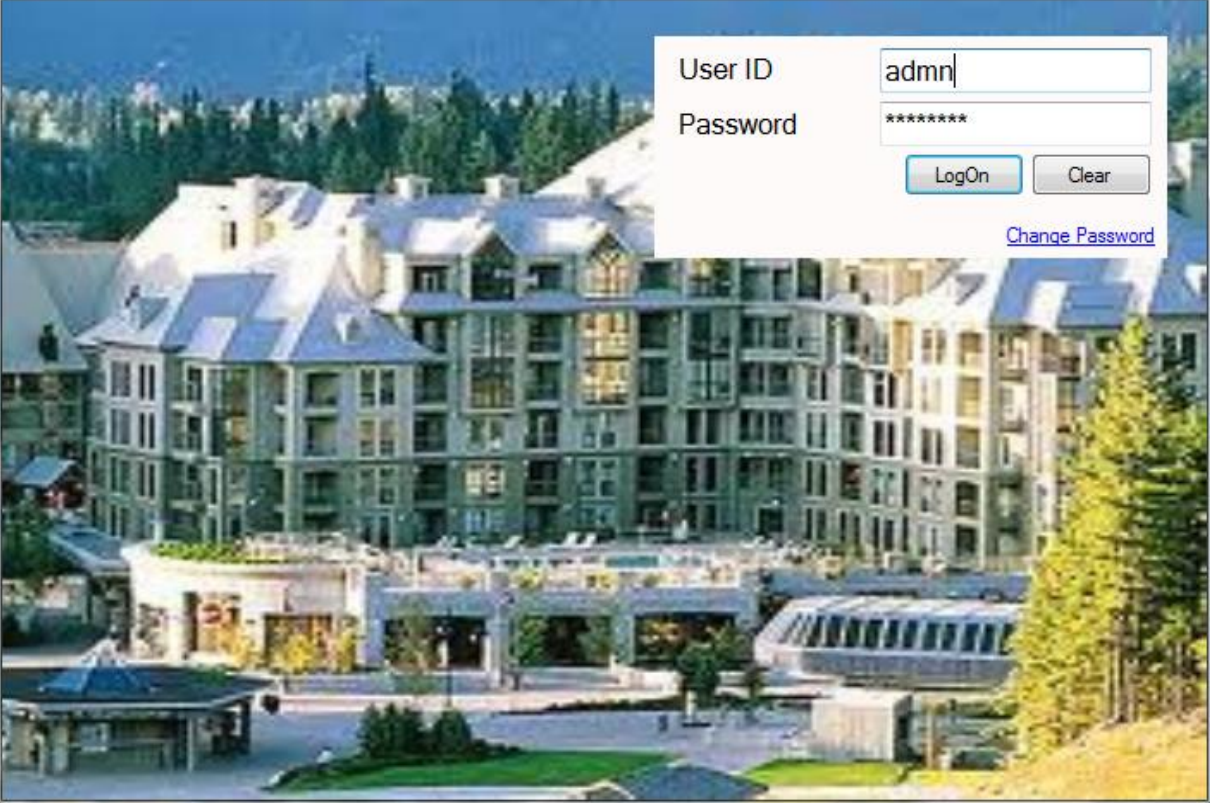
Login Form

Conestoga Inn HRS - Login

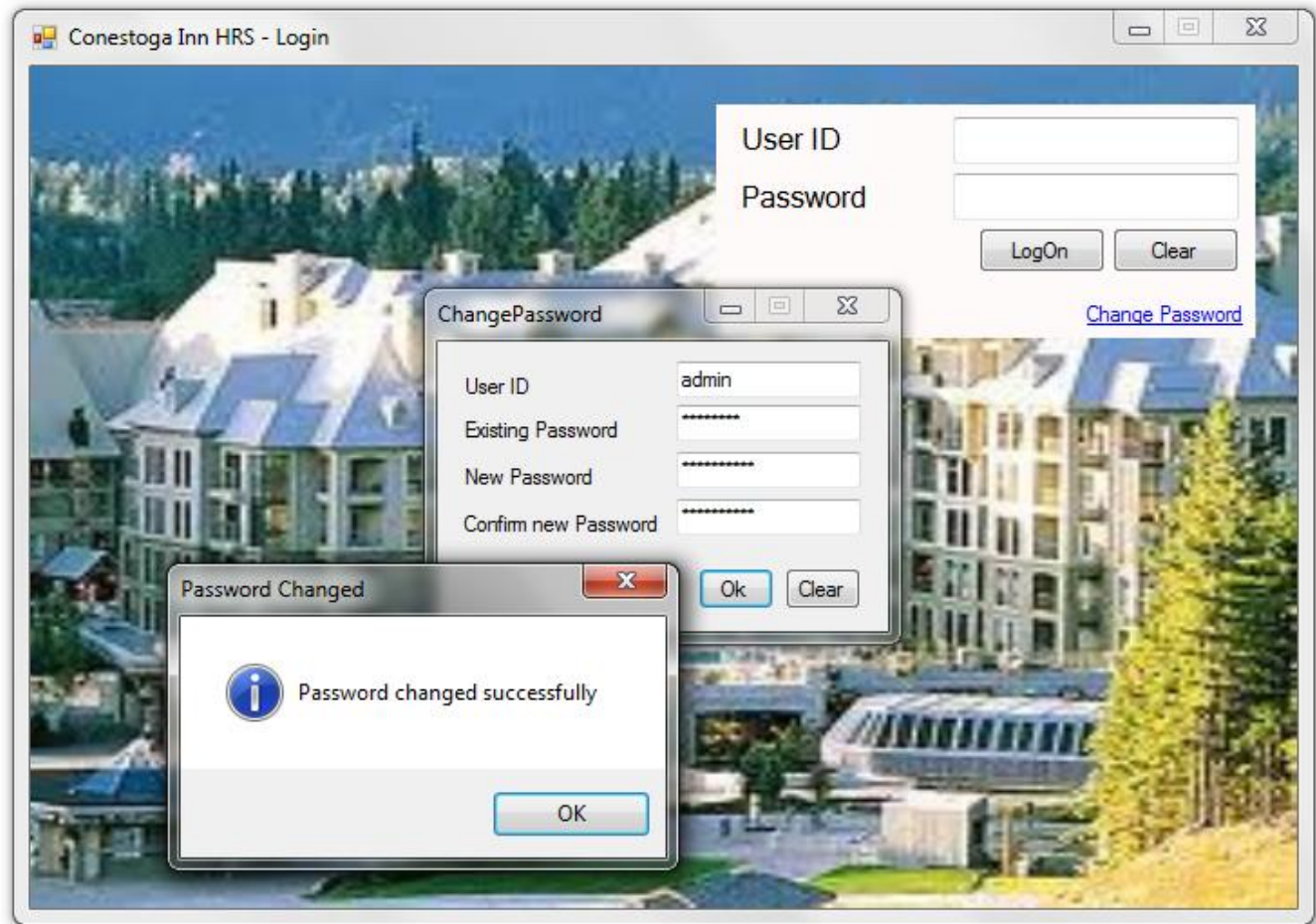
User ID

Password

[Change Password](#)




Change Password



Welcome

Welcome - Conestoga Inn Hotel Reservation System

File Help

 **CONESTOGA**
Connect Life and Learning

Conestoga Inn - Hotel Reservation System

Retrieve Existing Booking

First Name

Last Name

Check Availability

Date In

Date Out

Room Type

Room Level

Lobby 2nd Floor 3rd Floor 4th Floor 5th Floor

101 102 103 104 105 106 107 108 109

110 111 112 113 114 115 116 117 118

Stairs

Hall

Reception

Lobby

Swimming Pool

Main Entrance

119 120 121 122 123 124

130 129 128 127 126 125


Color Codes

Check-out pending Guest Checked-In Available Booked

Retrieve Booking

Welcome - Conestoga Inn Hotel Reservation System

File Help

 **CONESTOGA**
Connect Life and Learning

Conestoga Inn - Hotel Reservation System

Retrieve Existing Booking

First Name:

Last Name:

Check Availability

Date In:

Date Out:

Room Type:

Room Level:

Lobby 2nd Floor 3rd Floor 4th Floor 5th Floor

101 102 103 104 105 106 107 108 109

110 111 112 113 114 115 116 117 118

Stairs

Hall Reception Lobby Swimming Pool

Main Entrance

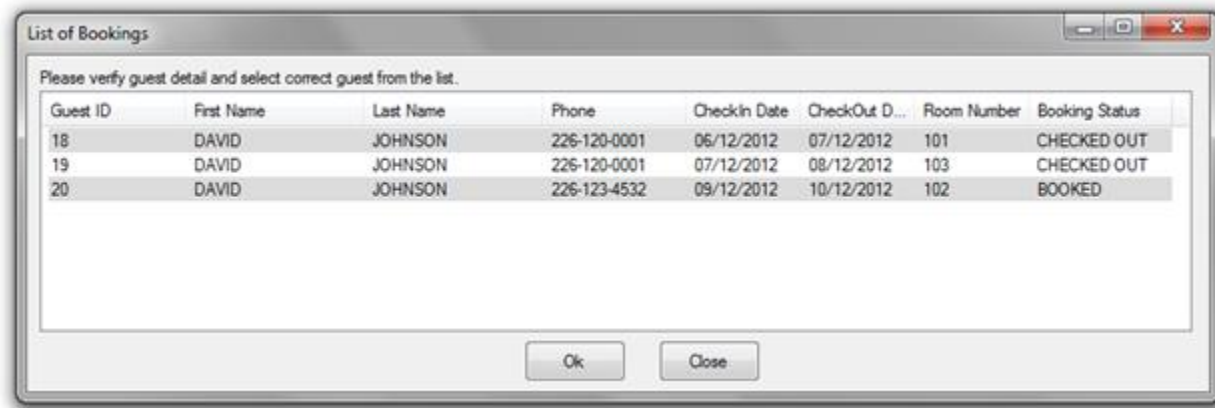
119 120 121 122 123 124

130 129 128 127 126 125

Color Codes

Check-out pending Guest Checked-In Available Booked


More than one Guest found



Check Availability

Welcome - Conestoga Inn Hotel Reservation System

File Help

 **CONESTOGA**
Connect Life and Learning

Conestoga Inn - Hotel Reservation System

Retrieve Existing Booking

First Name

Last Name

Check Availability

Date In

Date Out

Room Type

Room Level

Lobby 2nd Floor 3rd Floor 4th Floor 5th Floor

101 102 103 104

110 111 112 113

Stairs

Reception

Hall

Lobby

Swimming Pool

Main Entrance

119 120 121 122 123 124

130 129 128 127 126 125

Color Codes

Check-out pending Guest Checked-In Available Booked

December, 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Today: 07/12/2012

New Booking (Green)

Booking

Booking ID

Status

Guest Information

Guest ID

First Name

Last Name

Phone

Billing Address

Email

Search

Room Information

Room Number

Room Type

Room Rate

Floor

Room Description

Search

Change

Booking Details

Check-In Date

Check-Out Date

Special Request

Identity Verification

☐ Not Verified

☒ Driving License

☐ Passport

☐ Citizenship Card

☐ Other

Charges

Room Service

Restaurant

Total

Credit Card Type

CreditCard Number

Payment Status

Save Booking

Check In

Add Charges

Modify

Check Out

Close

David

Johnson

226-120-0001

400 Glenelm Crescent,
Waterloo, On
N2J 4G5

djohnson@mymail.com

103

Single

120

1

Single on first floor

2012-12-07

2012-12-08

Wake up call at 7.00am
Breakfast and coffee in room at
8.00am

☐ Not Verified

☒ Driving License

☐ Passport

☐ Citizenship Card

☐ Other

Amex

4453-2034-3451-0034

Pending

Booked Room (Sky-Blue)

Booking

Booking ID16

StatusBOOKED

Guest Information

Guest ID19

First NameDavid

Last NameJohnson

Phone226-120-0001

Billing Address400 Glenelm Crescent,
Waterloo, On
N2J 4G5

Emaildjohnson@mymail.com

Search

Room Information

Room Number103

Room TypeSingle

Room Rate120

Floor1

Room DescriptionSingle on first floor

Search

Change

Booking Details

Check-In Date2012-12-07

Check-Out Date2012-12-08

Special RequestWake up call at 7.00am
Breakfast and coffee in room at
8.00am

Identity Verification

☐ Not Verified

☒ Driving License

☐ Passport

☐ Citizenship Card

☐ Other

Charges

Room Service

Restaurant

Total

Credit Card TypeAmex

CreditCard Number4453-2034-3451-0034

Payment StatusPending

Save Booking

Check In

Add Charges

Modify

Check Out

Close

Checked-In Room (Blue)

Booking

Booking ID16

StatusCHECKED IN

Guest Information

Guest ID19

First NameDAVID

Last NameJOHNSON

Phone226-120-0001

Billing Address400 GLENELM CRESCENT,
WATERLOO, ON
N2J 4G5

Emaildjohnson@mymail.com

Search

Room Information

Room Number103

Room TypeSingle

Room Rate120

Floor1

Room DescriptionSingle on first floor

SearchChange

Booking Details

Check-In Date2012-12-07

Check-Out Date2012-12-08

Special RequestWake up call at 7.00am
Breakfast and coffee in room at
8.00am

Identity Verification

☐ Not Verified

☒ Driving License

☐ Passport

☐ Citizenship Card

☐ Other

Charges

Room Service0

Restaurant0

Total120

Credit Card TypeAmex

CreditCard Number****-****-1003

Payment StatusPending

Save Booking

Check In

Add Charges

Modify

Check Out

Close

Modifying a Booking

Booking

Booking ID16

StatusCHECKED IN

Guest Information

Guest ID19

First NameDAVID

Last NameJOHNSON

Phone226-120-0001

Billing Address400 GLENELM CRESCENT,
WATERLOO, ON
N2J 4G5

Emaildjohnson@mymail.com

Search

Room Information

Room Number103

Room TypeSingle

Room Rate120

Floor1

Room DescriptionSingle on first floor

SearchChange

Booking Details

Check-In Date2012-12-07

Check-Out Date2012-12-08

Special RequestWake up call at 7.00am
Breakfast and coffee in room at
8.00am

Identity Verification

☐ Not Verified

☒ Driving License

☐ Passport

☐ Citizenship Card

☐ Other

Charges

Room Service0

Restaurant0

Total120

Credit Card TypeAmex

CreditCard Number****-****-1003

Payment StatusPending

Save Booking

Check In

Add Charges

Modify

Check Out

Close

Add Charges

The screenshot shows a 'Booking' application window with a modal 'AddCharges' dialog box. The 'Booking' window contains the following sections:

- Booking ID:** 16
- Status:** CHECKED IN
- Guest Information:**
 - Guest ID: 19
 - First Name: DAVID
 - Last Name: JOHNSON
 - Phone: 226-120-0001
 - Billing Address: 400 GLENELM CRESCENT, WATERLOO, ON N2J 4G5
 - Email: djohns
- Room Information:**
 - Room Number: 103
 - Room Type: Single
 - Room Rate: 120
 - Floor: 1
 - Room Description: Single on first floor
- Booking Details:**
 - Check-In Date: 2012-1
 - Check-Out Date: 2012-1
 - Special Request: Wake up call at 7.00am
Breakfast and coffee in room at 8.00am
- Charges:**
 - Room Service: 0
 - Restaurant: 0
 - Total: 120
- Payment Information:**
 - Credit Card Type: Amex
 - CreditCard Number: ****.*-1003
 - Payment Status: Pending

The 'AddCharges' dialog box is open, showing:

- Room Service Charges:** 15.47
- Restaurant Charges:** 25.25
- Buttons:** Add, Clear

At the bottom of the 'Booking' window, there are buttons: Save Booking, Check In, Add Charges (highlighted with a blue border), Modify, Check Out, and Close.

Check-out a Guest

Booking

Booking ID: 16 Status: CHECKED IN


Guest Information

Guest ID: 19
First Name: DAVID
Last Name: JOHNSON
Phone: 226-120-0001
Billing Address: 400 GLENELM CRESCENT, WATERLOO, ON N2J 4G5
Email:

Room Information

Room Number: 103
Room Type: Single
Room Rate: 120
Floor: 1
Room Description: Single on first floor

Check Out - Accept Payment

 Please accept the final payment from the guest and mark it as paid

OK

Booking Details

Check-In Date:
Check-Out Date:
Special Request: Wake up call at 7:00am
Breakfast and coffee in room at 8:00am

Charges

Room Service: 15.47
Restaurant: 25.25
Total: 160.72

Credit Card Type: Amex
Credit Card Number: ****-****-****-1003
Payment Status: Pending

Save Booking Check In Add Charges Modify Check Out Close

Guest Checked Out

Booking

Booking ID16

StatusCHECKED OUT

Guest Information

Guest ID19

First NameDAVID

Last NameJOHNSON

Phone226-120-0001

Billing Address400 GLENELM CRESCENT,
WATERLOO, ON
N2J 4G5

Emaildjohnson@mymail.com

Search

Room Information

Room Number103

Room TypeSingle

Room Rate120

Floor1

Room DescriptionSingle on first floor

SearchChange

Booking Details

Check-In Date2012-12-07

Check-Out Date2012-12-08

Special RequestWake up call at 7.00am
Breakfast and coffee in room at
8.00am

Identity Verification

☐ Not Verified

☒ Driving License

☐ Passport

☐ Citizenship Card

☐ Other

Charges

Room Service15.47

Restaurant25.25

Total160.72

Credit Card TypeAmex

CreditCard Number****-****-****-1003

Payment StatusPaid

Save Booking

Check In

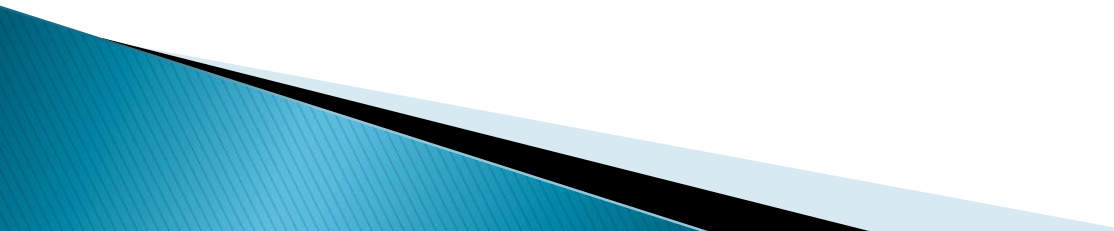
Add Charges

Modify


Check Out

Close

Advantages

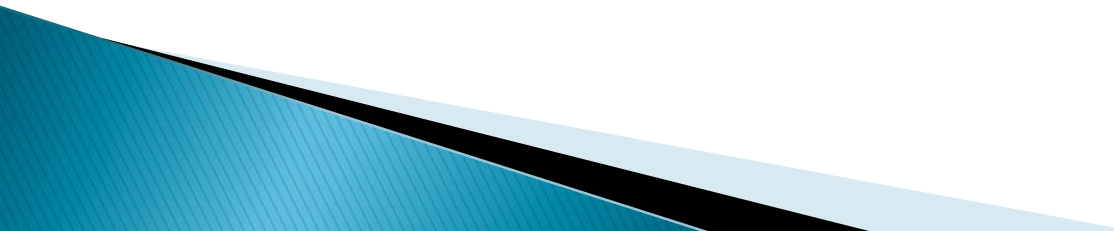
- ▶ System Connectivity
 - ▶ No Paper Work Required
 - ▶ Time Efficient
 - ▶ Cost Efficient
 - ▶ Automatic data validation
 - ▶ User friendly environment
 - ▶ Data security and reliability
 - ▶ Fast data insertion & retrieval
 - ▶ Easy performance check
- 

Scope of Future Application

- ▶ Encryption of password and user sensitive information
 - ▶ Integration with Payment Gateways to authorize and accept credit cards
 - ▶ Integration with other services within hotel such as Food & Beverage, Spa, Recreation and Concierge services .
 - ▶ Extend the project to a browser based internet application to allow direct customer access to check availability, reserve and cancel online
 - ▶ In case of system failure, the organization should be in a position to process the transaction with another stand by system or if the worst comes worst, it should be in a position to complete it manually.
- 

Conclusion

This project is designed to meet the requirements of Hotel Reservation system. It has been developed in C# language. We got opportunity to exercise our skills acquired during this course -

- ▶ C# language, .Net framework and ADO.net technology
 - ▶ System Analysis and Design techniques like data flow diagram in designing the system
 - ▶ Understanding the database interaction and query processing.
- 

THANK YOU

We used GitHub for source control and collaboration

The code is available to public at:

<https://github.com/soniarai/HRS>

