VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

School of Computer Science and Engineering

Hotel Management System

A project submitted
in partial fulfillment of the requirements for the degree of
Bachelor of Technology in Computer Science and Engineering

By

Sahith D (17BCE0422)

Sourabh Jain (17BCE0821)

Yash Soni (17BCE2032)

Course Instructor

Dr. Ramesh Babu K

Associate Professor

April-2019

UNDERTAKING

This is to declare that the project entitled “Project Title” is an original work done by undersigned, in partial fulfillment of the requirements for the degree “Bachelor of Technology in Computer Science and Engineering” at School of Computer Science and Engineering, Vellore Institute of Technology (VIT), Vellore.

All the analysis, design and system development have been accomplished by the undersigned. Moreover, this project has not been submitted to any other college or University.

Student 1 : Sahith D

Student 2: Sourabh Jain

Student 3: Yash Soni

ABSTRACT

The theme of our Project is Hotel Management System. This project is a fine thought to make the complex procedure of the Hotel management system to an easy manner which is systematic, modular designed, selective menu based user display. The modular design and constructed system is very much user oriented in which user can easily understand the tools. The system is not any tough more and does not possesses many applications but it is made by focusing on the maintaining records employee's actions in a computerized system rather than time taking manual system.

The project is a software application that can be easily handled by minimum educated and simple computer knowledge person without any option of error. Two kinds of users can handle the system.

1.Online Users,

2. Administrator or Hotel Management.

The Online users are the customers or the staff who can see the news and updates of the Hotel and the Administrator are responsible for updating the Hotel details on computer. The Administrator is the authorized user who has power to change or edit the updates as well as the Password. In case of the forgetting of password there is provision to password recovery and Logout and Login in the system.

The Purpose of the whole process is to ease the daily or regular activities of the Hotel Management into an automatic computerized retrievable process. The daily activities includes the Room activities, Entering details of the new customer check in, To allocate a room as per the customer need and interest, Recording the checkout time and details, Releasing or Empty of room and to record the process in a computer system for future.

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1. Introduction

The theme of our Project is Hotel Management System. *The Purpose of the whole process is to ease the daily or regular activities of the Hotel Management into an automatic computerized retrievable process*. The daily activities includes the Room activities, Entering details of the new customer check in , To allocate a room as per the customer need and interest , Recording the checkout time and details, Releasing or Empty of room and to record the process in a computer system for future.

The main objective of the entire activity is to automate the process of day to day activities of Hotel like:

->Room activities,

-> Admission of a New Customer,

->Assign a room according to customer's demand,

->Checkout of a computer and releasing the room

->Finally compute the bill etc.

->Packages available.

-> Advance online bookings.

->Online Cancellation.

->Email facility.

->Feedbacks.

2.Abbreviations and Acronyms

1)"XAMPP Apache + MariaDB + PHP + Perl" open-source cross-platform web server solution stack package (XAMPP)

2)Hyper text markup language (HTML)

3) Cascarding style sheet (CSS)

4) Computer in which the software is running (LOCAL HOST)

3. Contents

3.1 Module Decomposition

The way followed while making module decomposition is to divide the system into modules so that the operations are done under each module will be higly related with each other, but they are not so much related with other operations in other modules. Taking this into consideration, hotel management system project's main services are as follows;

3.1.1 User Authentication Module

Identification: User Authentication Module

Type: Application

Purpose: This Module provide user to register and authenticate user.

Function: User enables to register to system and log in. Also this module provide changing password and help user if they forgot their password.

Subordinates:

Sing in

Log in

Changed Password

Forgotten Password

3.1.1.1. Sign in

Identification: Sign in

Type: Process

Purpose: Provides user to get their authorization level which is recorded in corresponding cell of the user table.

Function: A user enters their required information (e-mail, password) to the web form. If those information match with a row of the user table, user gets their authorization level.

Subordinates:

- None

3.1.1.2. Sign Up

Identification: Sign up

Type: Process

Purpose: Provides a registration process to user, if user information is not recorded to the user table.

Function: A visitor fills the registration form and click on the Complete Registration button. If every information given is correct, user's information is recorded to user table and user get the "customer"status by default. For other employee is defined by the administrator in their panel manually.

3.1.1.3. Change Password

Identification: Change Password

Type: Process

Purpose: To make user able to change their passwords.

Function: User enters their old password and new password. New password replaces with the old password if it is correct.

Subordinates: None

3.1.2. Forgotten Password

Identification: Forgotten Password

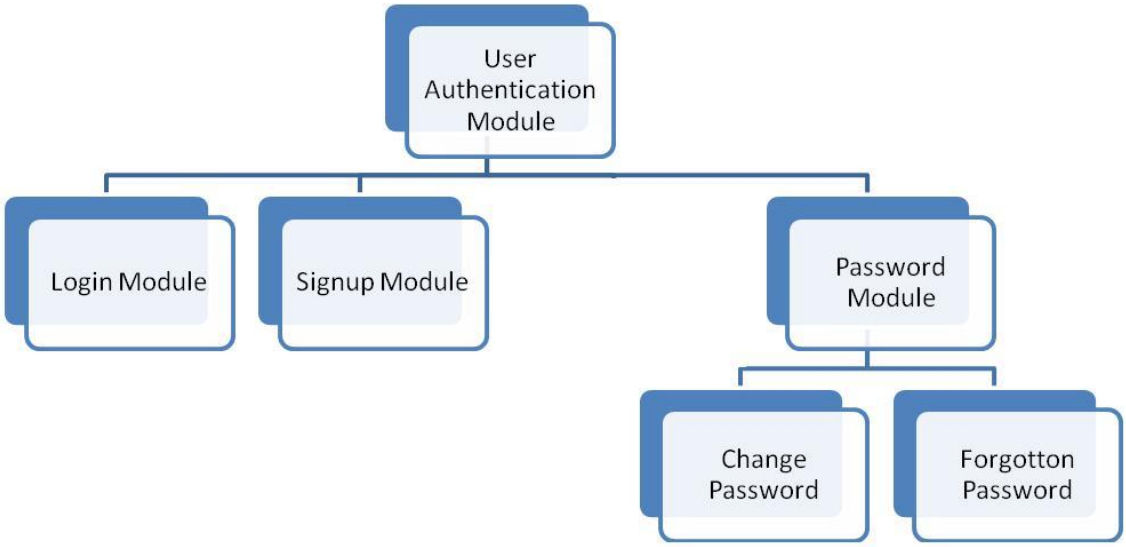
Type: Process

Purpose: By this module, user can get their fogotten password.

Funtion: User sends a request to the system that denotes they have forgotten their password. System sends them an e-mail including their password.

Subordinates:

None



3.1.3. Messaging Module
Identification: Messaging Module
Type: Application
Purpose: This module is used for messaging between users except customer.
Function: Employees can send or receive message each other.
Subordinates:
Send Message
Messaging Module (Other Users)
>Send Message
>Delete Message

3.1.3.1Send Message

Identification: Send Message

Type: Process

Purpose: For faster communication, provides hotel employee to send and receive text messages.

Function: User fills the required areas in the form and clicks on the "Send"button. According to the information in the messages table, every user has their sent and received messages.

Subordinates: none

3.1.3.2.Delete Message

Identification: Delete Message

Type: Process

Purpose: Provides hotel employee to delete their messages visually.

Function: User clicks on the "Delete" button. Message status changes to"deleted" and user can not see that message any more. At the end, the message does not deleted from table. Because of foreign key constraints, the corresponding message's status changes.

Subordinate: None

4. Searching Module

Identification: Searching Module

Type: Application

Purpose: It allows user to searching information, data in the system.

Function:

Subordinates:

Searching Module(Administrator)

-Search Room
- Search Employee

- Search Customer

4.1Search Room (Administrator)

Identification: Search Room

Type: Process

Purpose: Provides a sophisticated room searching to administrators.

Function: Administrator enters the capacity and price intervals to the module.

All suitable rooms are listed.

Subordinates: None

4.2 Search Customer

Identification: Search Customer

Type: Process

Purpose: Provides administrator to search customer by name and SSN.

Function: Administrator specifies how the search data, all suitable customer information are listed.

Subordinates: None

5 Online Reservation Module

Identification: Online Reservation Module

Type: Application

Purpose: This module allows to customer

Function:

Subordinates:

- Reserve Room
-
- Modify Reservation

-Cancel Reservation

5.1 Reserve Room

Identification: Reserve Room

Type: Process

Purpose: Provides customer to reserve a room.

Function: Customer picks a room. Specifies entering and leaving dates and how the room price will be paid. Clicks on reserve button.

Subordinates: None

5.2.Modify Reservation

Identification: Modify Reservation

Type: Process

Purpose: Provides customer to change their reservation information.

Function: Customer clicks on modify reservation button. They can change any information about the room and cancel the reservation.

Subordinates: Cancel Reservation

5.2.1Cancel Reservation

Identification: Cancel Reservation

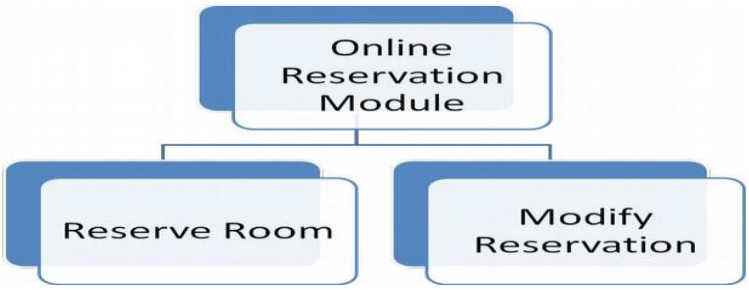
Type: Process

Purpose: Provides customer to cancel the reservation. Any related data in the reservation table will be erased.

Function: Customer clicks on cancel reservation button. Reservation is canceled.

Subordinates:

None



6 Manage Room Module

Identification: Manage Room Module

Type: Application

Purpose: Administrator enable to manage room.

Function: This module provides add, delete or change room information like room is vacated or occupied.

- Add Room

- Delete Room

Modify Room Information(Vacated/Occupied)

6.1 Add Room

Identification: Add Room

Type: Process

Purpose: Provides administrator to add a new room.

Function: Administrator clicks on “Add new Room” button, fills the form according to room specifications, clicks on save button.

Subordinates: None

6.2 Delete Room

Identification: Delete Room

Type: Process

Purpose: Provides administrator to delete a room.

Function: Administrator clicks on “Delete Room” button, clicks on save button. Because room information does not erased from the database, this process is reversible.

Subordinates: None

6.2.1 Modify Room Information

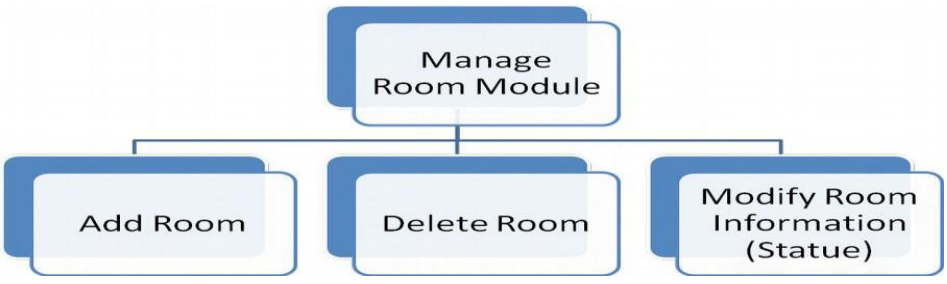
Identification: Modify Room Information

Type: Process

Purpose: Provides administrator to modify a room's information.

Function: Administrator clicks on “Modify Room Information” button, all the information can be changed.

Subordinates: None

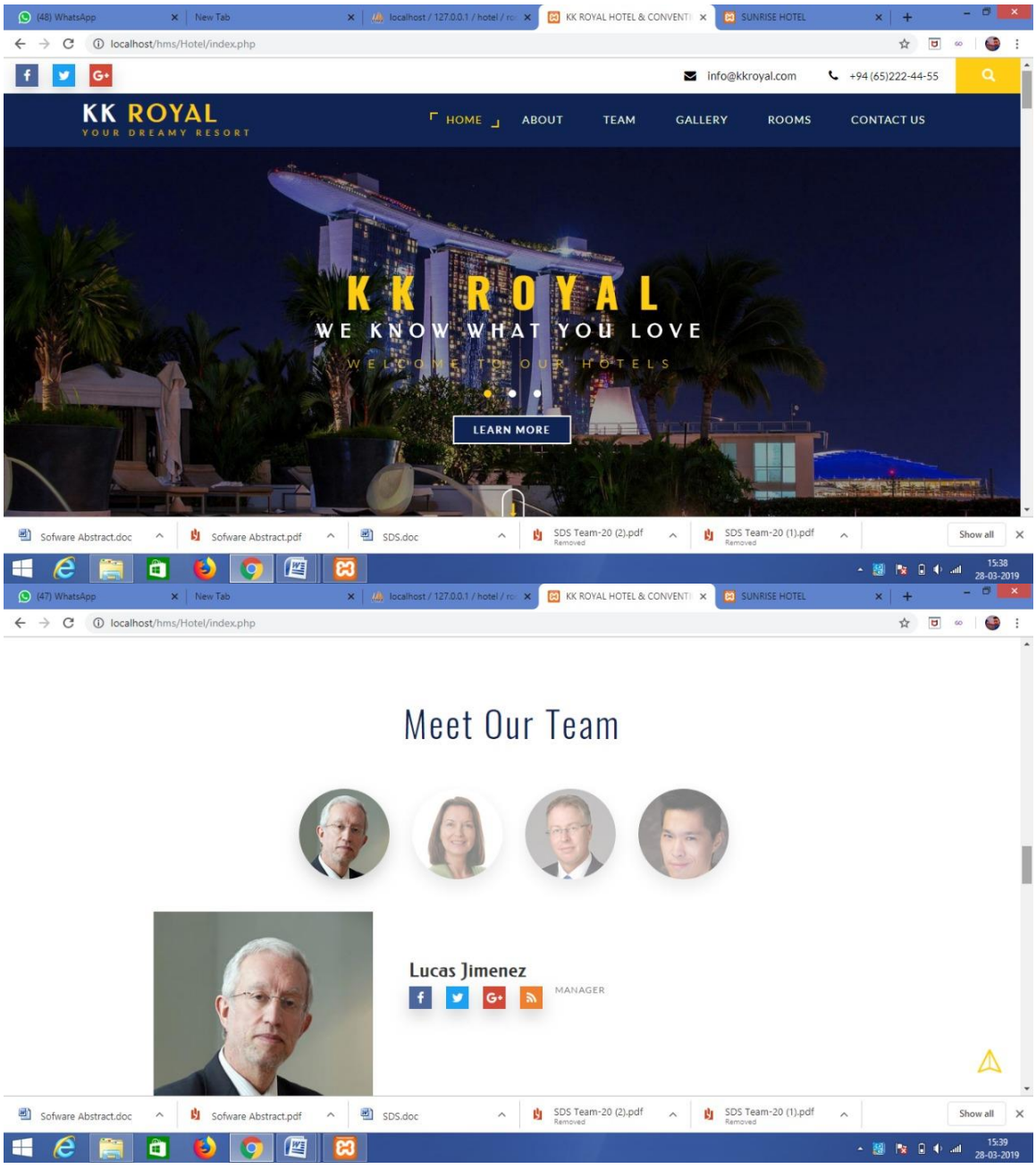


7.Team Members Contribution

(Only Applicable for Group Project)

Name	Role and Main Task
Sourabh Jain	Web designer, update website, user interface for complete system
Yash Soni	test & debug for complete system, evaluation, Demo, report writer
Sahith D.	Graph maker, Database administrator, System design and modelling

SCREEN SHOTS :


KK ROYAL
YOUR DREAMY RESORT
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ABOUT
TEAM
GALLERY
ROOMS
CONTACT US
info@kkroyal.com
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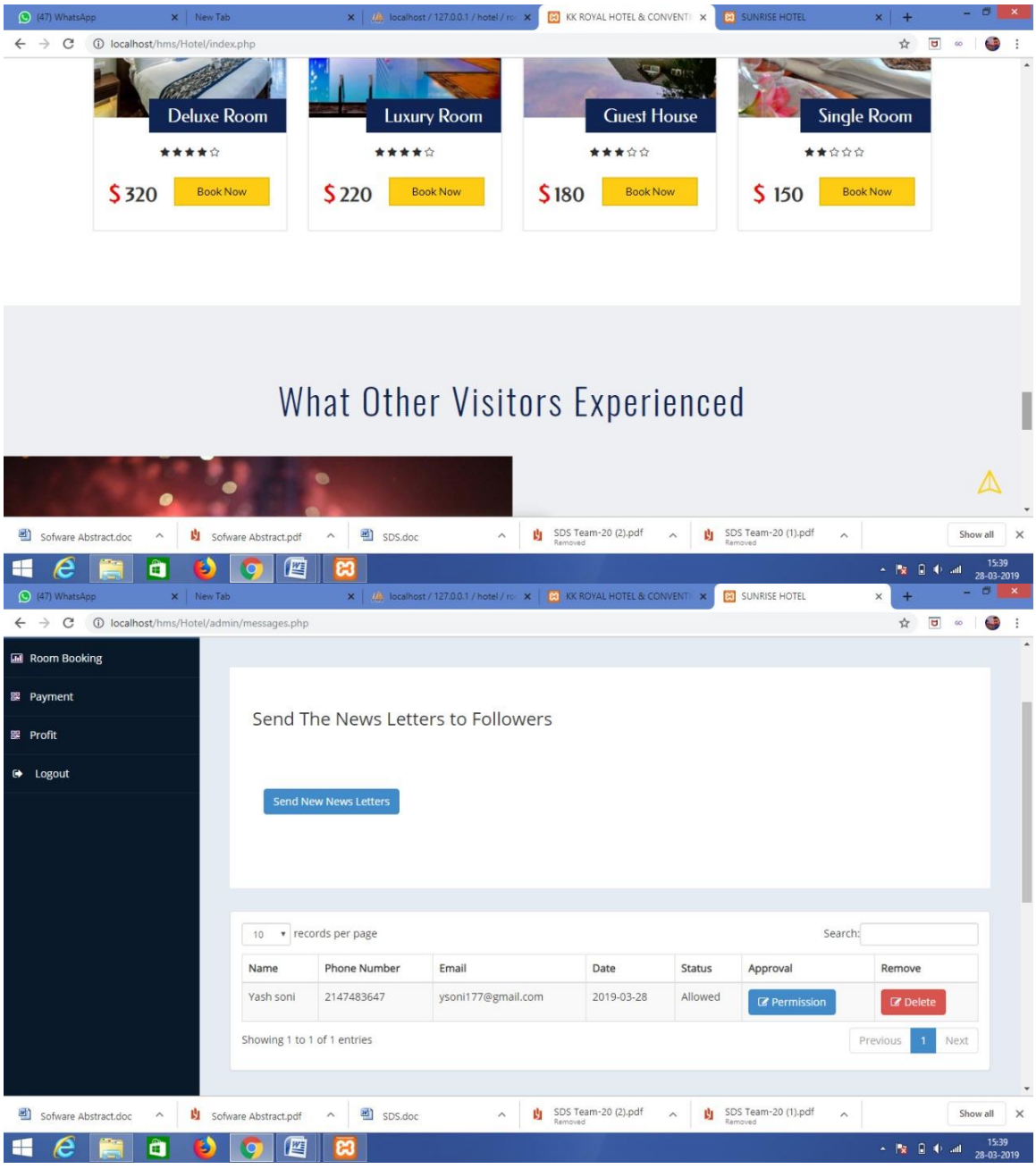
KK ROYAL
WE KNOW WHAT YOU LOVE
WELCOME TO OUR HOTELS
LEARN MORE
Meet Our Team
Lucas Jimenez
MANAGER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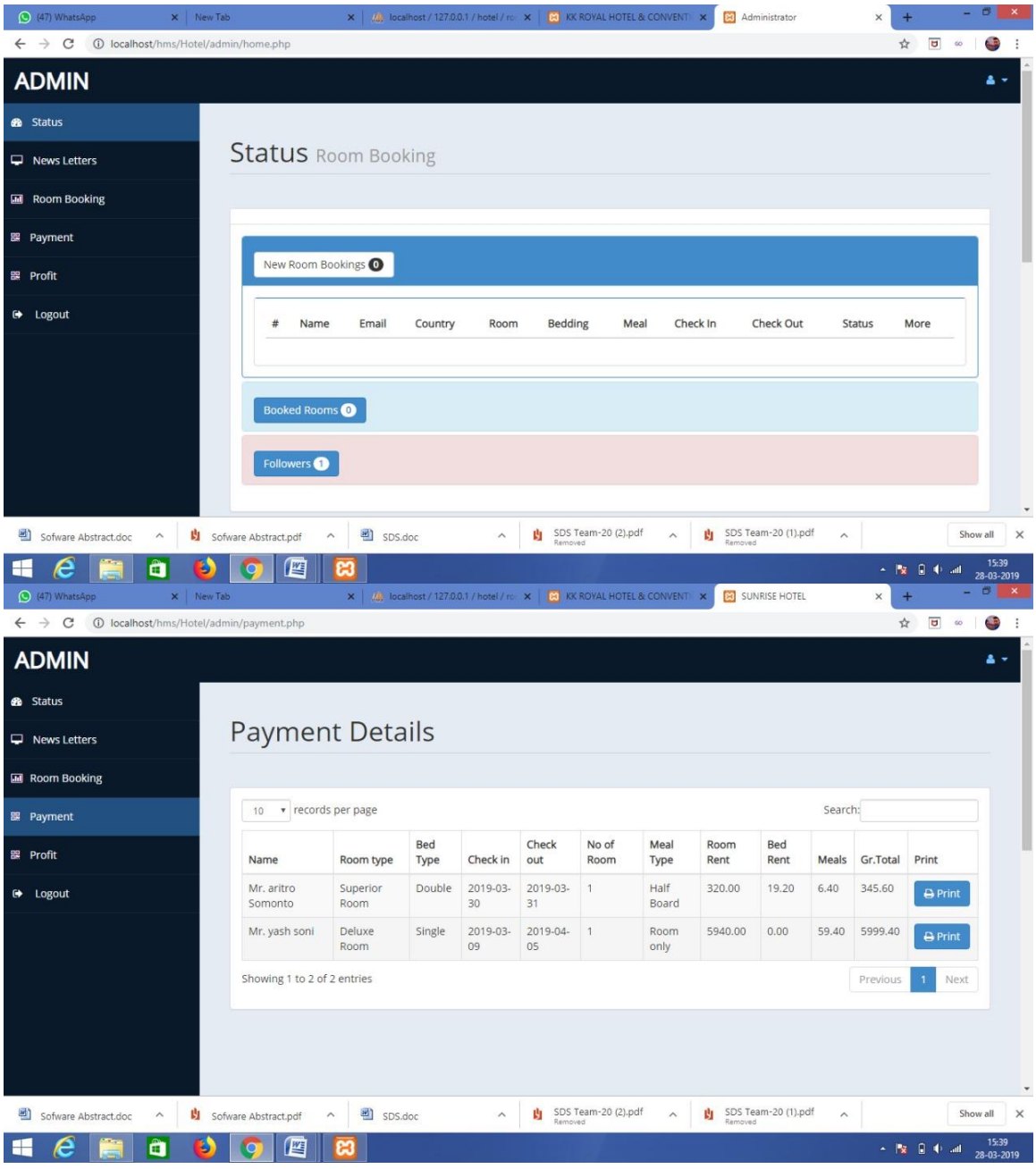
ADMIN
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Name | Room type | Bed Type | Check in | Check out | No of Room | Meal Type | Room Rent | Bed Rent | Meals | Gr.Total | Print
Mr. aritro Somonto | Superior Room | Double | 2019-03-30 | 2019-03-31 | 1 | Half Board | 320.00 | 19.20 | 6.40 | 345.60 | Print
Mr. yash soni | Deluxe Room | Single | 2019-03-09 | 2019-04-05 | 1 | Room only | 5940.00 | 0.00 | 59.40 | 5999.40 | Print
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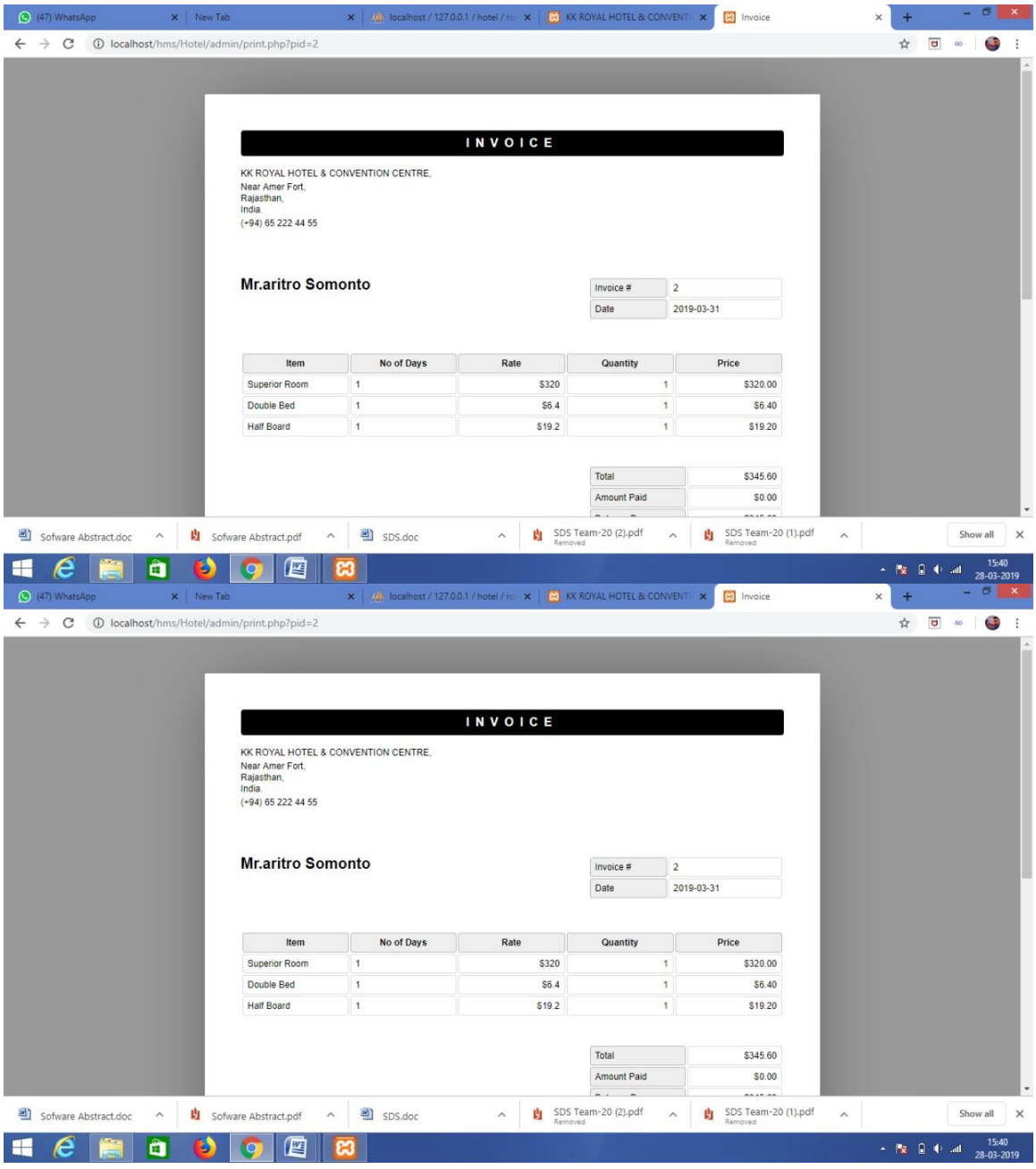

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Rajasthan,
India.
(+94) 65 222 44 55
Mr.aritro Somonto
Invoice # 2
Date 2019-03-31
Item | No of Days | Rate | Quantity | Price
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Double Bed | 1 | $6.4 | 1 | $6.40
Half Board | 1 | $19.2 | 1 | $19.20
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Amount Paid $0.00
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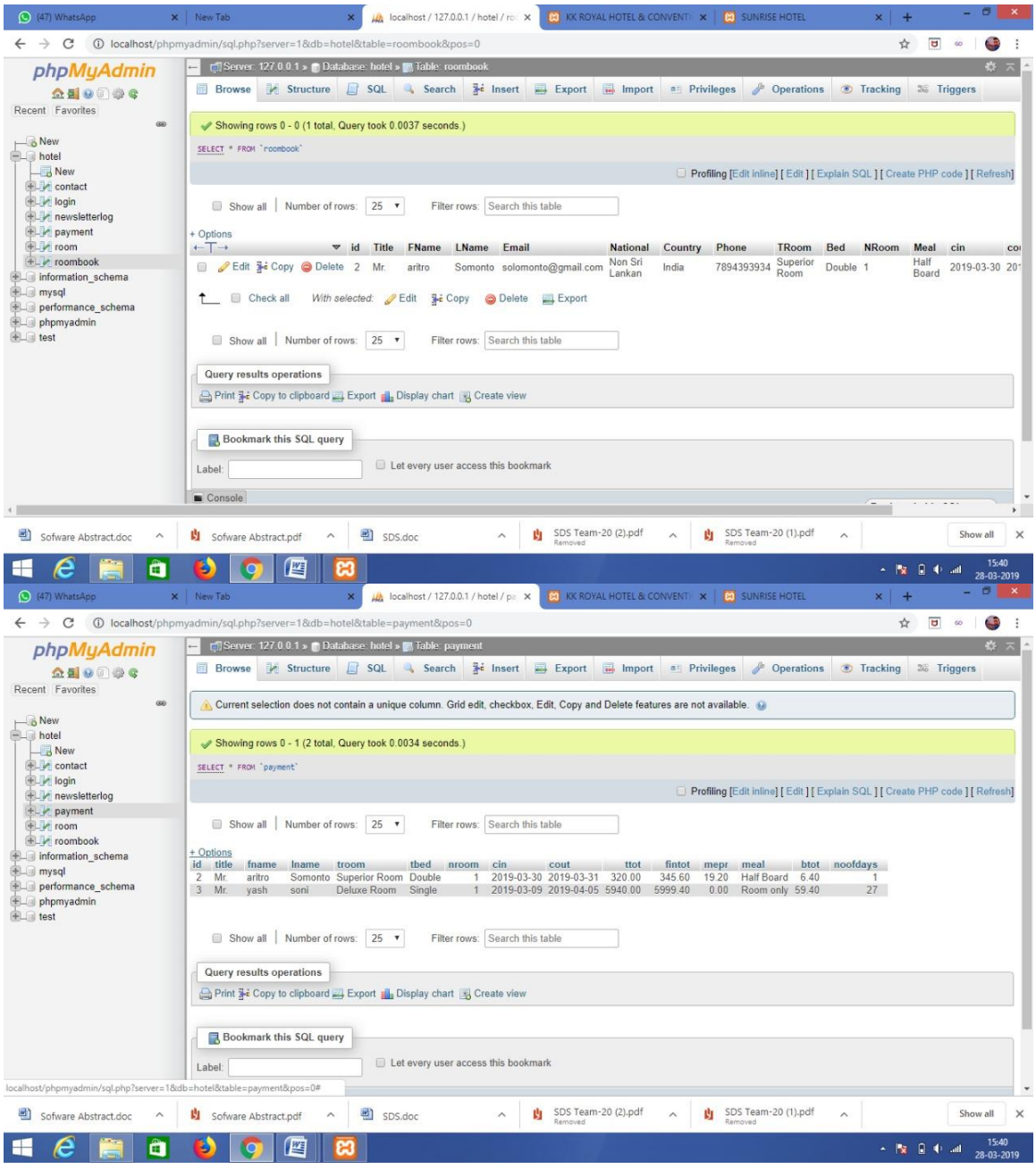
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room
roombook
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+ Options
id Title FName LName Email National Country Phone TRoom Bed NRoom Meal cin
Edit Copy Delete 2 Mr. aritro Somonto solomonto@gmail.com Non Sri Lankan India 7894393934 Superior Room Double 1 Half Board 2019-03-30
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Query results operations
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Bookmark this SQL query
Label:
Let every user access this bookmark
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phpMyAdmin
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phpmyadmin
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Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Showing rows 0 - 1 (2 total, Query took 0.0034 seconds.)
SELECT * FROM `payment`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all Number of rows: 25 Filter rows: Search this table
+ Options
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2 Mr. aritro Somonto Superior Room Double 1 2019-03-30 2019-03-31 320.00 345.60 19.20 Half Board 6.40 1
3 Mr. yash soni Deluxe Room Single 1 2019-03-09 2019-04-05 5940.00 5999.40 0.00 Room only 59.40 27
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Let every user access this bookmark
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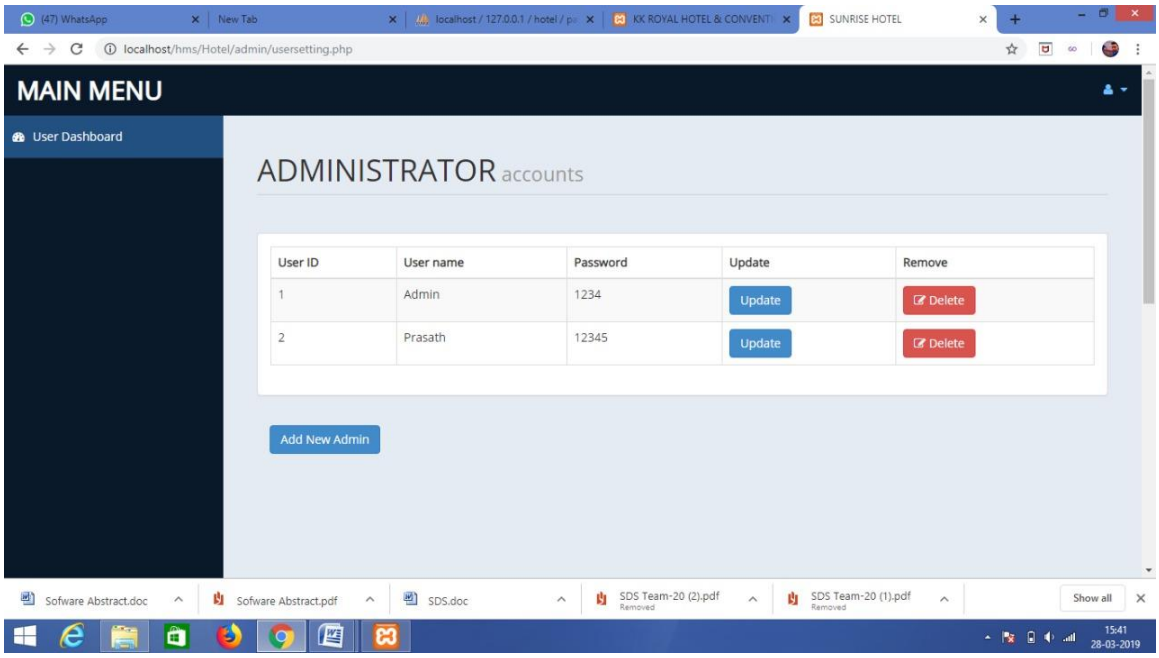

CONCLUSION:

This project is designed to meet the requirements of Online Hotel Management. It hasbeen developed in JSP, Servlets keeping in mind the specifications of the system.For designing the system we have used simple data flow diagrams.Overall the project teaches us the essential skills like:

Using system analysis and design techniques like data flow diagram in designing thesystem.

Understanding the database handling and query processing.

8.References

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