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# ***GUEST HOUSE MANAGEMENT SYSTEM***

## **TEST REPORT**

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Version ***2.0***

***04/03/2016***

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# VERSION HISTORY

Version #	Implemented By	Revision Date
1.0	5	04/03/2016

## Table of Contents

<b>1.0 INTRODUCTION.....</b>	<b>4</b>
1.1 Purpose .....	4
<b>2.0 TEST PLAN.....</b>	<b>4</b>
<b>3.0 TEST ASSESSMENT .....</b>	<b>4</b>
<b>4.0 TEST RESULTS .....</b>	<b>4</b>
4.1 Unit/Module/System Testing .....	5
4.2 System Testing .....	6
4.3 User Acceptance Testing .....	7
4.4 Regression Testing .....	8
4.5 Performance Testing .....	8
4.6 <Type of Test> .....	<b>Error! Bookmark not defined.</b>
<b>5.0 VARIANCES.....</b>	<b>17</b>
<b>6.0 TEST INSTANCES.....</b>	<b>17</b>
6.1 Resolved Test Incidents .....	17
6.2 Unresolved Test Incidents .....	18
<b>7.0 RECOMMENDATIONS .....</b>	<b>18</b>
<b>APPENDIX A: REFERENCES.....</b>	<b>19</b>
<b>APPENDIX B: KEY TERMS .....</b>	<b>20</b>

### **1.0 INTRODUCTION**

#### **1.1 PURPOSE**

This Guest House Management System Test Report provides a summary of the results of test performed as outlined within this document.

### **2.0 TEST PLAN**

In the first phase of the testing we tested each web page and the tables in the database individually.

In the second phase we tested the consistency between database and user input data. We also tested interrelation between the web pages.

In the third phase we tested the system as a whole i.e System testing and then we did performance testing mostly related to database usage.

### **3.0 TEST ASSESSMENT**

We went accordingly to our test plan and we found most mistakes in User Interface Design during module testing. In interface testing we tested whether the one web page is directing the user to other required web page or not. We did the System testing according to its behavior with web browser and on the basis of some security related issues. User Acceptance Testing is done by checking the user functionalities mentioned in the SRS document.

We were unable to check some performance related issues like CPU utilization, speed, traffic on the web application because system is made to run on local host.

We did not test the application according to different hardware requirements.

### **4.0 TEST RESULTS**

Most of the errors were related to the invalidity of Input and un-notified scenarios during user actions. It was expected to validate all the required fields and notify any error or successful message to the user.

Database is inconsistent with user input in some cases and the major defect is with the inappropriate assignment of primary key. It was expected to have some relationship between different tables in database.

Some user requirements were not fulfilled in the system like - billing system not designed. Insufficient details are available to admin and therefore he is unable to make decision about acceptance of the user booking request.

#### **4.1 UNIT/MODULE/SYSTEM TESTING**

Unit, module, and system integration testing activities were performed during the development of the system build or release.

## GUEST HOUSE MANAGEMENT SYSTEM

### 4.2 SYSTEM TESTING

The table below summarizes the results of system testing:

Test Case ID	Date Tested	Tester	Pass/Fail	Severity of Defect [Low/Medium/High]	Summary of Defect	Closed prior to Production Release	Comments
1	4/3/2016	Dishant	Fail	High	Inconsistency with Web Browser	Yes	Need to login again in another browser Tab after first login is done
2	4/3/2016	Shiv	Fail	Low	Admin Login Web Page is not linked with main Web Application	Not required	
3	4/3/2016	Shiv	Pass				Logout functionality for all type of users is working fine
4	4/3/2016	Shiv	Fail	Medium	Primary Key is not Appropriately used in database therefore causing errors during manipulation of data	Id is used because of auto increment option	ID is defined as primary key for each table instead of "Username" field
5	4/3/2016	Arvind	Pass				On refreshing the Web page the after the login system is retaining its original state of Login
6	4/3/2016	Dishant	Fail	High	Billing System is not Developed	Yes	
7	4/3/2016	Ramkesh	Fail	High	The system can be crashed easily using Cross Site Scripting	Yes	No validation on Input so any SQL command can run in database without Authentication
8	4/3/2016	Ramkesh	Fail	High	Normal user can access the Admin	Yes	

## GUEST HOUSE MANAGEMENT SYSTEM

					data without Authentication using Session Hijacking		
9	4/3/2016	Ramkesh	Pass				SQL Injection

### 4.3 USER ACCEPTANCE TESTING

The table below summarizes the test cases employed for user acceptance testing and the test results obtained for each test case:

Test Case ID	Date Tested	Tester	Pass /Fail	Severity of Defect [Low/Medium/High]	Summary of Defect	Closed prior to Production Release	Comments
1	4/3/2016	Shiv	Fail	Medium	Admin unable to see number of beds	Yes	
2	4/3/2016	Arvind	Fail	Low	Format of Govt Id is not specified in the Booking form		
3	4/3/2016	Dishant	Pass				Admin is able to manipulate the data like no. of Rooms and accept the Booking request of the user.
4	4/3/2016	Shiv	Fail	Medium	User Type is not defined to the Admin	Yes	Showing User Type as Numeric values. Should be "Registered User" and "Guest User"
5	4/3/2016	Arvind	Pass				A registered member is able to log in into the system
6	4/3/2016	Shiv	Fail	Low	Room Type is not descriptive	Yes	Room Type is Mentioned as A,B,C,D
7	4/3/2016	Ramkesh	Fail	Medium	User require two more field for –	Not specified	

## GUEST HOUSE MANAGEMENT SYSTEM

					“Deluxe Ac” and “Deluxe NonAc” but not specified	in the SRS	
8	4/3/2016	Shiv	Pass				Registered and Guest user is able to make the request for the Booking of the room
9	4/3/2016	Dishant	Fail	High	“Guest User” and “Registered User” is unable to know whether his request to allocate room is being Accepted or Rejected by Admin	Yes, According to the SRS the acceptance will be informed through mail.	
10	4/3/2016	Dishant	Fail	High	Any User is unable to view the Price and bill accordingly	Yes, the details are now shown.	

### 4.4 REGRESSION TESTING

The table below summarizes the test cases employed for regression testing and the test results obtained for each test case:

Test Case ID	Date Tested	Tester	Pass/Fail	Severity of Defect[Low/Medium/High]	Summary of Defect	Closed prior to Production Release	Comments
						<Yes> or <No>	

### 4.5 PERFORMANCE TESTING

The table below summarizes the test cases employed for performance testing and the test results obtained for each test case:



## GUEST HOUSE MANAGEMENT SYSTEM

Test Case ID	Date Tested	Tester	Pass/Fail	Severity of Defect[Low/Medium/High]	Summary of Defect	Closed prior to Production Release	Comments
1	4/3/2016	Ramkesh	Fail		Guest user table is containing 18 columns		Manipulating data on such large tables can decrease the performance. Instead one should have used multiple tables so that manipulation is done accordingly
2	4/3/2016	Shiv	Fail		No relation between the different tables in database		Scalability reduces because while adding new functionalities requires interrelations between tables

### 4.6 MODULE TESTING

The table below summarizes the test cases employed and the test results obtained for each test case:

**Table 4.6.1 - Guest Accommodation Booking Form Test Table – (Module Testing)**

Test Case ID	Date Tested	Tester	Pass/Fail	Severity of Defect[Low/Medium/High]	Summary of Defect	Closed prior to Production Release	Comments
1	4/1/2016	Ramkesh	Fail	Low	Phone Number field-no constraints	Yes	It should hold only numeric values up to 10 digits only

## GUEST HOUSE MANAGEMENT SYSTEM

2	4/1/2016	Shiv	Fail	Low	No constraints on Age	Yes	It should hold only positive values
3	4/1/2016	Shiv	Pass				Entry and exit dates are constrained to required values
4	4/1/2016	Dishant	Fail	Low	Entry Date > Exit Date Allowed	Yes	Exit Dates must be greater than Entry date
5	4/1/2016	Arvind	Fail	Low	No Constraints on Email ID	Yes	Should follow criteria like – <a href="mailto:example@gmail.com">example@gmail.com</a>
6	4/1/2016	Shiv	Fail	Low	No Auto fill , Autofocus Capability		It should retain the values after page reload
7	4/1/2016	Ramkesh	Pass				Showing Appropriate Notifications on submission of form in Guest Accommodation Booking WebPage
8	4/1/2016	Arvind	Fail	Medium	Purpose Field not mentioned in database	Yes	Admin unable to make use of it
9	4/1/2016	Shiv	Pass				Submit field is OK
10	4/1/2016	Shiv	Fail	Medium	Arbitrary number appearing after form submission	Yes, Was not a defect	Registered – User form submission
11	4/1/2016	Arvind	Pass				Name field – Ok
12	4/1/2016	Dishant	Fail	Medium	No limit on any of the fields in the form	Yes	If data exceed the 255 characters limit then some data is getting lost
13	4/1/2016	Ramkesh	Fail	Low	No. of rooms – no constraints on type of data	Yes	It should contain positive numeric value
14	4/1/2016	Shiv	Pass				No. of Beds - Containing positive numeric value
15	4/1/2016	Arvind	Pass				Select List feature working fine for Internet, Gender, AC or NON AC
16	4/1/2016	Arvind	Pass				Log out field is OK

## GUEST HOUSE MANAGEMENT SYSTEM

17	4/1/2016	Shiv	Fail	Low	Unnecessary Relationship field in Guest User Form	Yes, New table created in the database	Relation status with which person.
18	4/1/2016	Dishant	Fail	Low	Wrong spelling – “Accomodation”	Yes	It should be – “Accommodation”
19	4/1/2016	Dishant	Fail	Low	“Law of line” – Gestalt Error after ‘Your details’ heading		In Guest User Accommodation Booking Form
20	4/1/2016	Ramkesh	Fail	Low	No Notification about wrong input by the user	Yes, Solved by popups	

*[If the test case failed, list the corresponding Test Incident ID in the Comments column.]*

**Table 4.6.2 – Login and Signup Web Page Test Table - (Module Testing)**

Test Case ID	Date Tested	Tester	Pass /Fail	Severity of Defect[Low/ Medium/ High]	Summary of Defect	Closed prior to Production Release	Comments
1	4/2/2016	Shiv	Fail	High	Multiple users with same username ID allowed	User id can be same but distinction is possible.	
2	4/2/2016	Ramkesh	Fail	High	No encryption of User Password in		Password should be encrypted using MD5

## GUEST HOUSE MANAGEMENT SYSTEM

					the database		encryption function
3	4/2/2016	Arvind	Fail	High	After Login no information about registered user is used	Yes	
4	4/2/2016	Arvind	Fail	Low	No notification displayed after login complete	Yes	
5	4/2/2016	Shiv	Fail	Low	No notifications on invalid input by the user	Yes	
6	4/2/2016	Ramkesh	Pass				Duplicate Phone no. and Email-ID detected
7	4/2/2016	Shiv	Fail	High	Signup successful without taking UserId, password, Name, and various other fields		Should mention about the mandatory fields to be filled in the signup form
8	4/2/2016	Shiv	Fail	Low	No constraints on Phone number field	Yes	It should hold only +ve numeric values upto 10 digits only
9	4/2/2016	Ramkesh	Pass				Gender/Sex field working fine
10	4/2/2016	Arvind	Fail	Low	Constraints on E-mail Id like '.com' not followed	Yes	
11	4/2/2016	Dishant	Fail	Medium	No data limit on any of the fields in the form	Yes	If data exceed the 255 characters limit then some data is getting lost
12	4/2/2016	Dishant	Fail	Low	Unexpected behavior of Address expansion utility		

**Table 4.6.3 – Home Web Page Test Table - (Module Testing)**

Test Case ID	Date Tested	Tester	Pass/Fail	Severity of Defect[L	Summary of Defect	Closed prior to Producti	Comments
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## GUEST HOUSE MANAGEMENT SYSTEM

				ow/ Medium/ High]		on Release	
1	4/2/2016	Shiv	Fail	Low	Not Responsive – Side Slider menu button not in use		Unexpected Behavior on changing the window size
2	4/2/2016	Arvind	Fail		No link for Admin Login on the page	Not required	
3	4/2/2016	Shiv	Pass				Google Map API is working fine

**Table 4.6.4 – Database Test Table - (Module Testing)**

Test Case ID	Date Tested	Tester	Pass/ Fail	Severity of Defect[L ow/ Medium/ High]	Summary of Defect	Closed prior to Producti on Release	Comments
1	4/2/2016	Ramkesh	Fail	Low	No use made of “ldap_Id” field in guest_user Database		
2	4/2/2016	Arvind	Fail	Low	No “purpose” field in Database	Yes	“purpose” is taken as input from the user will submitting the form
3	4/2/2016	Arvind	Pass				On acceptance of Booking by Admin the required changes in database are successfully made
4	4/2/2016	Shiv	Fail	Medium	Primary key is not properly defined	Yes	In Registered User Table “user_id” should be used as primary key
5	4/2/2016	Dishant	Fail	Low	Updated_Date is unnecessary field	Yes	
6	4/2/2016	Dishant	Fail	Medium	Address data for Registered User not updated in	Yes	No relation carried between the tables

## GUEST HOUSE MANAGEMENT SYSTEM

					guest_user database on form submission		
7	4/2/2016	Shiv	Pass				All fields that are submitted in Booking form are successfully stored in database except "relationship" field

**Table 4.6.5 – Admin Web Page Test Table - (Module Testing)**

Test Case ID	Date Tested	Tester	Pass/Fail	Severity of Defect[Low/Medium/High]	Summary of Defect	Closed prior to Production Release	Comments
1	4/2/2016	Arvind	Fail	Low	No notification displayed after login complete		
2	4/2/2016	Shiv	Fail	Low	Unrelated Glyph icon used in Admin_start.php file		
3	4/2/2016	Arvind	Fail	Medium	Accepting -ve number of rooms	Yes, Now only +ve is possible	
4	4/2/2016	Dishant	Fail	Low	For Registered User using Govt. Id as his name		
5	4/2/2016	Ramkesh	Fail	High	Rejection Mail link is not working	Yes	
6	4/2/2016	Ramkesh	Pass				"Logout" button Working fine
7	4/2/2016	Shiv	Fail	Low	Unrelated Title Name("Responsive Table")of the		

## GUEST HOUSE MANAGEMENT SYSTEM

					Admin_see_request.php used		
8	4/2/2016	Dishant	Pass				“Add Rooms” button is working fine in Admin_see_request.php
9	4/2/2016	Dishant	Fail	Low	Unrelated Glyph icon used in Admin_see_request.php file		
10	4/2/2016	Shiv	Fail	Medium	On accepting the Room Allotment Request, the no. of rooms availability may get negative		
11	4/2/2016	Arvind	Pass				Select Type List is working fine in adding_room.php
12	4/2/2016	Arvind	Fail	Medium	Also Accepting the Room request when not Available	Yes	
13	4/2/2016	Ramkesh	Pass				“Submit” button is OK in adding_room.php
14	4/2/2016	Shiv	Pass				“Logout” button is OK in adding_room.php

**Table 4.6.4– Test table for Consistency of Database with input and consistency between different Web Pages (Interface Testing).**

Test Case ID	Date Tested	Tester	Pass/Fail	Severity of Defect[Low/Medium/High]	Summary of Defect	Closed prior to Production Release	Comments
1	4/3/2016	Shiv	Pass				“Institute Member” button on Home Page is taking to Registered User Login Page - OK

## GUEST HOUSE MANAGEMENT SYSTEM

2	4/2/2016	Dishant	Fail	Medium	Email Id link – <a href="mailto:guesthouse@iitj.ac.in">guesthouse@iitj.ac.in</a> is not working		Request Should be followed “mailto” window
3	4/2/2016	Arvind	Pass				“Guest User” button on Home page is taking the user to Guest Accommodation Booking Page
4	4/2/2016	Arvind	Pass				“Learn More” button on home page is taking user to required page
5	4/2/2016	Shiv	Fail	Medium	Relationship data not going into the database	Yes	Admin unable to make use of it
6	4/2/2016	Ramkesh	Pass				“Login” button is taking user to Registered User Accommodation booking form
7	4/2/2016	Shiv	Pass				“SignUp” button on Registered User page is taking the user to Sign Up page
8	4/2/2016	Dishant	Pass				“Sign Up” button on Sign Up page is taking Registered user to Login Page
9	4/2/2016	Shiv	Pass				“Add Rooms” button is working fine in Admin_see_request.php
10	4/2/2016	Shiv	Fail	Low	“Submit” button on Registered User Accommodation Booking is directing to the unexpected Webpage	Yes	
11	4/2/2016	Ramkesh	Pass				“Log out” taking back to Login Webpage
12	4/2/2016	Dishant	Fail	Low	On giving inappropriate Input	Yes,solved	Example – “abc” in input and storing o in database



## GUEST HOUSE MANAGEMENT SYSTEM

					in No. of rooms field the changes are going into database		
13	4/2/2016	Arvind	Pass				“Submit” button in Guest User accommodation Booking page is redirecting to the same page with appropriate Message.
14	4/2/2016	Shiv	Pass				Need to login again in another browser Tab after first login is done
15	4/2/2016	Dishant	Pass				“Logout” button is OK in adding_room.php

### 5.0 VARIANCES

During secondary phases of the testing we were getting some primary errors that were not tested before which was not expected according to the test plan. Also some modules were tested only after other modules were tested before it.

Operational Environment will involve connectivity to the Internet and therefore the number of user accessing the application may be large which can lead to errors and loss of data. We have tested the application on local host only so we are unable to test load limit of the application.

On connection with the web, the application may be prone to severe security issues that were not tested by us.

### 6.0 TEST INSTANCES

Random number was getting displayed after the submission of Registered User's Accommodation Booking form.

On adding too much of the data in purpose field of the Booking form, the unexpected web page was getting displayed with some warnings.

On minimizing the browser window of Home page unexpected side Slider menu button was getting displayed.

### 6.1 RESOLVED TEST INCIDENTS

*Sid1) Now the system is consistent with the web browser i.e if a user is logged in in a tab and opens the website in other tab there is no need for him to login again.*

*Sid2) There is no need for linking the admin login page with the main user page as the two are not interdependent.*

UM1) *All the errors related to user interface i.e invalid entries in fields like phone number , email id , entry date should be less than exit date and age should not be less than 0 are all corrected.*

### **6.2 UNRESOLVED TEST INCIDENTS**

### **7.0 RECOMMENDATIONS**

All input data by the user should be validated by the application before submission. Make the database consistent with the input data. Use relations between the tables and make appropriate use of primary key, foreign key and candidate key. Give special attention to security issues like password encryption, multiple user login and Session Hijacking etc. Link all web pages through the main Application for example – Include Admin web page link on main home page.

APPENDIX A: REFERENCES

The following table summarizes the documents referenced in this document.

Document Name	Version	Description
<Document Name>	<Version Number>	[Provide brief description of the document]

## **APPENDIX B: KEY TERMS**

The following table provides definitions for terms relevant to this document.

<b>Term</b>	<b>Definition</b>
Registered user	A student, staff or faculty
Admin	A person having access of guest house Database
Side Slider Menu Button	A menu toggle used to display navigation bar content on small window size.
Guest User	Any person with authenticated Govt. Id
Primary Key	That field in the database table to uniquely identify the tuple.
Glyph icon	precisely prepared monochromatic icons and symbols
MD5 Encryption	Function to encrypt the user password
Gestalt Principles	Principles that defines the visual nature of the structure of text and images
SQL Injection	Code injection technique, used to attack data-driven applications, in which malicious SQL statements are inserted into an entry field for execution
Cross-Site Scripting	Enables attackers to inject client-side scripts into web pages viewed by other users
Session Hijacking	To gain unauthorized access to information or services in a computer system.