

Software Requirement Specification Report

Topic: House Rental System

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1.Introduction

1.1 Purpose

- This Document describes software and system requirements, external interfaces required for a House Rental System. The Document is indented for the customers and the developers (designers, testers and maintainers)

1.2 Scope

- The function of this software is to provide available rental houses according to user needs.
- The Software will provide owners contact information and mobile number to the customers

1.3 Overview

This document is structured as follows:

- **Chapter->1** contains a brief idea and some definitions of the document
- **Chapter->2** contains a general description of the House Rental System
- **Chapter->3** identifies the specific functional, external interface and performance requirements of the House Rental System.

1.4 Definition

- Houses: Houses that are available rent in a place we conducted our survey added to our database
- Customer: A Person who wish to rent a house or to vacate the rented house
- Owner: Owner of the corresponding houses to whom the customer needs to pay the money
- Rent: Total Amount that customer needs to pay to the owner

2.General Description

2.1 Product Description

- House Rental System computerized communication system between various customers and owners.
- User can either “Rent a House” or can “ vacate a House” the rented house
- User needs to enter a place among a list of place displayed in “Rent a House” page, System will display list of Available house with fare, User need to enter one which mostly apt for him, then System will Provide Contact information of the Owner and mark that house as rented
- In “Vacate a House” Page ,User needs to enter the house number he need to vacate, then system will display total fare he need to pay to the Owner.
- This system will give a exhaustive information about the availability Rental house in a place.
- By Adding more and more place and house information into the database our system will provide user an impartial way to know about the exact cost
- Since this system provides a two way communication between owner and user no more broker amount will be required.

2.2 Product Functions

- Functions of the system are
 1. Rent a House
 2. Vacate House
- By Selecting “Rent a House” User can come to know about the available place where rent is allowed, user can select the one which suits him mostly(user agreed with fare and place) , then system will display owner contact information
- By Selecting “Vacate a house” ,User need to enter house number which he need to vacate, then system will display the fare he need to pay to the owner.

2.3 User Characteristics

- Customer: Any Person, Who has a prior basic knowledge of using computer systems. He comes to know about the House Owner Info and total fare need to pay, through this software. System will provided with enough help while using the system
- Administrator: Only he can add or delete house from the database.

2.4 Abbreviations

Abbreviations used in this document are

- Place: Place where house is situated
- Owner Name: Name of Owner of that house
- Contact: Contact number of that owner
- Fare: Total amount per day for that house

3. Specific Requirements

3.1. Functional Requirements

a. Function-1

Description: Collect available houses, initialize parameters of each house store it in a file

Input: House Details Collected from on field survey

Processing: Store values such as owner name, contact number, place of house and fare

Output: store this value in a file

b. Function-2

Description: Validating User

Input: Login Id and Password

Processing: Check for Validity of Login details in our database; allow access to “Book or Vacate Page”

Output: Display “Book or Vacate Page”

c. Function-3

Description: User selects booking Option or Vacate Option

Input: Option Number

Processing: Check validity of option number, if not valid display same page

Display: 1. Display Booking Page; Also display available places

2. Display Vacate Page

d. Function-4

Description: User enters a place where our survey is not done

Input: User enter a place name

Processing: Search for that place in our file where house details are stored. If place is not found

Output: Display “House in this place is not available in our system”

e. Function-5

Description: User enter valid place, But no houses found

Input: Valid Place

Processing: Check for matching houses in the file according to the input, If not found

Display: Display “No Available Houses “

f. Function-6

Description: Valid Inputs and Matching houses available

Input: User Enter Valid Place

Processing: Search for matching houses in the file, Matches found, display house number with fare and ask user to enter one feasible house

Output: House name with fare, also one option for “Not Satisfied”. Ask user to enter feasible house among these list

g. Function-7

Description: User not satisfied with any house

Input: User enter “Not Satisfied” Option

Processing: Nothing to Process

Output: Display a “Thank You” message and Go to Home Page

h. Function-8

Description: User Select one house among the available list

Input: Option number

Processing: Make the respective as booked in the file, No other user can book that house till the end date

Output: Display the selected house's Owner name and contact

i. Function-9

Description: User gives option to vacate the house with invalid house number

Input: Vacate Option and House Number

Processing: Check for validity of house number in database, if invalid display homepage

Output: Display "House Number Not Exist"

j. Function-10

Description: User gives vacate option with valid house number which is not allocated

Input: Vacate Option and House Number

Processing: If that house is not allocated

Output: Display "That house is not allocated"

k. Function-11

Description: User gives vacate option with valid allocated house number

Input: Vacate Option with house number

Processing: If House is allocated, then make it available for further booking

Output: Display "Successfully Vacated", Go to Home Page

3.2. Non-Functional Requirements

3.2.1 Performance

- Time taken by the system in accessing or updating the database will be less than 2 seconds.

3.2.2 Security

- All user data is secured.
- Proper login mechanism is adopted to avoid hacking.

- Encryption is done in order to protect all sensitive data and prevent discrepancy.

3.2.3 Reliability

- The database will have multiple backups so that data (if lost) can be easily retrieved.
- All software used will be up to date

3.2.4 Availability

- The portal will be available 24 X 7

3.3. External Interfaces

3.3.1 User Interface

- Keyboard, Mouse, Printer

3.3.2 Hardware Interface

- Operating System : Windows, Linux
- Processor : Intel Chip set
- Memory : 512 GB
- Hard Drive Capacity : 1 TB (expandable)
- Browser : Firefox, Chrome, Safari

3.3.3 Software Interface

- MySQL Server version 5 or above (database)
- Apache Server version 2.2.6 or above (web server)
- JavaScript, Java, PHP (programming languages)

3.3.4 Communications Interface

- Dial Up Modem
- Broadband Internet