

Worksheet 1.2

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AIM: -Suppose your organization is planning to develop a travel application. Design a software requirement system for the given project.

1. Introduction

- 1.1. Purpose: The purpose of this document is to describe the external requirements for an automated book-keeping system that keep track of various operations of a travel agency. It also describes the interfaces for the system.
- 1.2. Scope: This document describes the requirements of the above-mentioned system. It is meant to be used by the developers and will be the basis for validating the final delivered system. Any changes made to the requirements in the future will be made with the permission of the client. The developer is responsible for asking for clarifications, where necessary.
- 1.3. Definitions, Acronyms, Abbreviations:
 - DFD – Data Flow Diagram
 - IEEE – Institute of Electrical and Electronics Engineers
- 1.4. Intended Audience: This document will be used for design purposes by the developers and the design team. It will be the basis for validating the final delivered system.

2. Functional Requirements

2.1. Register Customers

2.1.1. Collect Detail about Customer

Input:

- Customer name, customer address, phone number.

Output:

- Request for deposit money (Rs. 5000).
- Updating entered data in customer database as temporary.

Description:

- Only for valid information Request is generated.
- New set of information given must not match completely with an existing entry in customer database.

2.1.2. Gather Deposit Money

Input:

- Confirmation of receiving deposit money,
- Previously entered customer data stored temporarily in customer database

Output:

- User name and password for the corresponding customer.
- Converting of temporary customer data to permanent.

Description:

- The employees of the organization permanently store the relevant data on confirmation of receiving deposit money.

2.2. Process Online Request

3. External interface Requirements

3.1. User Interfaces

This software needs the following user interfaces:

i) Registration Window:

User: The customer

Properties:

- This window is used for entry of customer details and registering a new customer for the online booking system.
- This window has various text fields to take the information name, address, phone number.
- There will be a register button upon pressing which deposit money is asked for.

ii) Log in Window:

User: The customer, the employees of the organization using the software, the manager

Properties:

- This window has two fields for username and password, two buttons to log in and register.

- For correct user name and password, it opens an appropriate window.
- It has register button to let new customer register by redirecting to registration window.

iii) Customer Homepage:

User: Registered customer

iv) Employee Homepage:

User: The employees of the organization using the software when logged in

v) Manager Homepage:

User: The managers of the organization using the software

3.2. Software Interfaces

The software runs under Linux or Windows operating system. This software uses two different databases for cars and customers. Internet using facility is must.

3.3. Hardware Interfaces

The system will run on a computer with at least 256 MB RAM and with internet connection. The machine is connected to a printer for printing bills etc.

3.4. Communication Interfaces

The software must be web browser enabled and HTTP protocol is used to transfer data.

4. Other Non-functional Requirements

4.1 Performance

In every case the response time will be less than 1 second except for the cases where internet connection is used.

4.2 Security

This software offers password protection so that only regular customers can book cars, only authorized personnel can edit data corresponding to booking, billing and car information.

5. Data flow Diagram

