Software Requirements Specification

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Reservation System

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# Introduction

## 1.1. Purpose

The purpose of this document is to present a detailed description of the Reservation System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system.

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## 1.2. Project Scope

This software system will be a Reservation System . The purpose of the Reservation System is to ease booking system and to create a convenient and easy-to-use application for traveller , trying to book hotel-room ,bus-ticket. The system is based on a relational database with its hotel management and reservation functions. We will have a database server supporting of major cities of Bangladesh. Above all, we hope to provide a comfortable user experience along with the best pricing available.

# Overall Description

## 2.1 System Environment­­­

User

Visitor

Admin

Reservation

Offers, About our work

Reservation management

Reservation System

Figure 1 - System Environment

The Reservation System has three active actors Visitor, User, Admin . Visitor accesses the offers and others information about our work/site through the Internet. Any User communicate with the system is through username and password . The Admin accesses the system through his username and password.

## 

## 2.2 Functional Requirements Specification

### 2.2.1 Visitor Use Cases

The Visitor has the following sets of use cases:

**Diagram:**

About our work

Visitor

Offers

Figure 2 – Visitors Use Cases

**Brief Description**

The Visitor accesses the Reservation site to know our facilities, activities and offers.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Visitor has already accessed the Reservation site.

1. The Visitor can see offers.
2. The System shows the regular offers.
3. The Visitor selects to know about our work.
4. The system presents the benefits of being a member in our site.
5. The Visitor can be a member.

### 2.2.2 User Use Cases

The User has the following sets of use cases:

**Diagram:**

Login

User

Booking

Payment

See Profile

Offers

Figure 2 - User Use Cases

**Brief Description**

The User enters to book hotel room , can see activities in their profile and can check our daily offers.

**Initial Step-By-Step Description**

Before this use case can be initiated, the User has already accessed the user home page of the Reservation site.

1. The User can login using required information.
2. The System gives access user to log in.
3. The User can book hotel room in desired destination.
4. The System gets proper details about booking and shows amount to the user.
5. The User can choose payment method and confirm paying with transaction id
6. The User selects profile to see own booking activities.
7. The User can see daily offers shown by the system.

### 2.2.3 Admin Use Cases

The admin has the following sets of use cases :

**Diagram:**

Login

Admin

Checks activities

Delete info

Figure 3 - Admin Use Cases

**Brief Description**

The Admin can update information and confirm bookings and payments.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Admin has already accessed the admin home page of the Reservation site.

1. The admin can login using admin information.
2. The system shows the latest user activities on a table.
3. The admin can delete information in the reservation site.
4. The admin confirms bookings of the users.

## 2.3 User Characteristics

The Visitor is expected to be Internet literate and be able to read paragraph . The main screen of the Reservation System site will have the offers function which is link to our regular basis offer to attract our user and visitor.

The User is expected to be Internet literate and to be able to mobile phone banking and map.

The Admin is expected to be Windows literate to be able to use button and mobile banking methods .

## 2.4 Non-Functional Requirements

The Reservation System will be on a server with high-speed Internet capability. The speed of the Users/Visitors connection will depend on the hardware used rather than characteristics of this system.

The Reservation System will run on the Admin’s PC and will contain an Access database. Access is already installed on this computer and is a Windows operating system.

# Overall Description

The data to be stored in the internal Reservation database is given below :

**3.1. Admin Data Entity**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Item** | **Type** | **Description** | **Comment** |
| Username | Varchar | Username of Admin | Username of admin to login to operate data |
| Password | Varchar | Password of admin | Protected Password of admin to login to operate data |

**3.2. User Data Entity**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Item** | **Type** | **Description** | **Comment** |
| Name | Varchar | Name of User |  |
| Age | Integer | Age of user |  |
| Phone | Integer | Phone number of user | Valid Phone number of user |
| Username | Varchar | Username of user | Username that will used for reservation |
| Password | Varchar | Password of user | Password that will used for reservation |

**3.3. Reservation Information Data Entity**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Item** | **Type** | **Description** | **Comment** |
| Name | Varchar | Username of user |  |
| Hotel Name | Varchar | Hotel name | Name of hotel where user want to stay |
| Date of Arrival | Text | Date when user want to book the room |  |
| Stay | Integer | Duration of stay |  |
| Room Type | Varchar | What type of room user wants to stay |  |
| Amount | Integer | Total bill user had to pay |  |
| Day | Text | The day and time when user reserve for the hotel room |  |

**3.4. Payment Data Entity**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Item** | **Type** | **Description** | **Comment** |
| Name | Varchar | Username of user |  |
| Bill | Integer | Payment that user paid as in advance | Booking money |
| Payment Type | Varchar | Mobile banking payment type | Bkash/Rocket/Nogod etc. |
| Transaction ID | Integer | Proof that user paid advance |  |
| Time | Text | The time and date when user paid the advance and confirmed booking |  |