

***Daffodil International University (DIU)***

***Department OF Software Engineering (SWE)***

*Lab REPORT : HOSTEL MANAGEMENT SYSTEM*

**Course Title: System Analysis And Design project**

**Course Code: SE231**

**Submitted To:**

**Mr. Khalid Been Badruzzaman Biplob**

**Lecturer (Senior Scale)**

**Department OF Software Engineering**

**Daffodil International University**

**Submitted By:**

**1.Md. Fahim Bhuiyan**

**Id: 193-35-2898**

**2.** **Abu Saleh MD Shahriar Hayder Annoy**

**Id: 193-35 -2938**

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**1.1. Overview**

**1.1.1. Background**

To reduce human suffering we can use a software system for Hostel management systems(**HMS**). In the traditional system hostel admin keeps all details on the register paper. But now they can keep all things in the software system. They can show their hotel online to users or customers. Customers can choose their favourite room or they can search their room. Also they can select which types of room they want, Ac/ non-Ac, single bed or double bed, expensive room or normal room etc. This software system is to make the performance of certain tasks faster than humans. There customers can order food in online, also they can say their opinion about what they need, what they want etc. They can pay their payment online also. Hostel admin save all data at database so there is no fear of losing data here. So this system is very helpful for users or customers.

**1.1.2. Objective**

Hostel management system will be a web based system for reducing time and trouble. The system will have different level of user -

1. System Administrator
2. Users
3. Hotel admin

List of operation that the system will provide are-

1. Customers can show rooms and can select room.
2. They can communicate with admin through the system
3. They can pay through the system.
4. System save all details or data of customers
5. Customers can order food through the system

**1.1.3. Scope**

The project hotel management system will be an web based system that will be used for maintaining the records in an organized manner and replace old paper work system. This project aims at automation the hotel management for smooth working of the hotel by automating almost all the activities. Updates and modifications will be easily achievable and all the calculations and accounting work would be accurate. Hotel management system will reduce customers time and trouble. Customer can easily show all rooms in system. Which room is available or which room is unavailable . Then they can search or select which types of room they want Ac/non-Ac , single bed or double bed etc. After the room reservation system give them one card with their id. When customer show the card to hotel admin then admin confirm the room. Customer  can also order food and tell the admin about all their problem.

**1.1.4. Assumptions and Constraints**

It is assumed that the users or customers are comfortable with computers or smartphones. Customers also need to know how to use the internet . Admin need to know how to save the user details and how to respond to user messages. Since everyone will use this system, here we use english and bangla language also we use pictures as if people can easily understand.

**1.1.5 Dependencies and Risks**

The user must have web access in order to use the system. The main risk behind implementing the project is security. Since customers can pay bill online, there is a risk. If somebody hacked the system then all things we can lose. So during development it will be one of our major concerns. Another concern is having common bugs such as the common users having the same functionalities as the doctors or system admin.

**1.2. Project Delivery**

**1.2.1 Deliverables**

The following contents will be delivered with the project:

* + Project Demo
  + User manual along with Tutorial
  + Documentation

**1.2.2 Timescales**

The time frame for implementing the project is given in Figure 1.2.1.

**1.2.3 Work Distribution**

The work distribution of the project is given in Table 1.2.1.

**1.2.4 Project Resources**

The resources required to finish the project is given in Table 1.2.2.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Duration** | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  | 7 days | 7 days | 5days | 5 days | 3 days | 5 days | 3 days | 5 days | 8 days |
|  |  |  |  |  |  |  |  |  |  |  |
| **Project Proposal** | |  |  |  |  |  |  |  |  |  |
| **SRS** |  |  |  |  |  |  |  |  |  |  |
| **Use Case** | |  |  |  |  |  |  |  |  |  |
| **Use Case Description** |  |  |  |  |  |  |  |  |  |  |
| **Activity Diagram** | |  |  |  |  |  |  |  |  |  |
| **ER Diagram** | |  |  |  |  |  |  |  |  |  |

**Figure 1.2.1: Time frames for project implementation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Project Proposal | Shahriar Hayder Annoy | 7days |
| Software Requirement Specification | Md. Fahim Bhuiyan | 7 days |
| Use Case | Md. Fahim Bhuiyan | 13 days |
| Use Case Description | Shahriar Hayder Annoy | 8 days |
| Activity Diagram | Md. Fahim Bhuiyan | 5 days |
| ER Diagram | Shahriar Hayder Annoy | 8 days |

**Table 1.2.1 Work Distribution**

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware Requirements** | | | |
| **Processor** | **RAM** | | **Hard Disk Space** |
| CORE i3 | 2gb or higher | | 512mb or higher |
| **Software Requirements** | | | |
| **Operating System** | | **Database** | |
| For user no specific OS is required. The server machine must have Windows XP/Vista/10 along with .NET framework 4 and IIS. | | SQL Server 2014 | |

**Table 1.2.2 Project Resources**

**1.3. Summary**

Time is our most valuable asset. We cannot waste it when there is scope of utilizing it in a better way. Our proposed system named HMS will be developed to meet this purpose. It will save the time of the mass people wasted during the time. Along with this, HMS will also help the administrator to see the previous records of a all customer. As a result s/he can take decisions more wisely. If the customer loses his/her information s/he can retrieve it from the website. We hope that HMS is useful for customer and administrator also. Our whole nation will be beneficial specially rural people will get benefit from this sytem.

**1.4. References**

1. What things are on the hotel website. Link = (https://blog.staah.com/online-marketing/15-things-a-hotels-website-must-have)
2. Best 10 hotel websites. Link = (https://www.smartertravel.com/best-hotel-booking-sites/)
3. What requirements are needed to make a hotel website? Link = ( https://www.wix.com/blog/2018/09/create-hotel-website/)