Hotel Booking Website

Submitted to: Dr. Pradipta Biswas.

Submitted By: Nandini Kapoor(B10023)
               Saveena Rajput(B10041)

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Table of Content

- Introduction

- Design Survey.
  - Three Existing systems for the same purpose.
  - Usability issues with system

- New design
  - Description
  - Screenshot 1: Form Design
  - Screenshot 2: Result screen

- Evaluation with Cambridge simulator.
  - Screenshot 1: Simulation for mild visual impairment and colour blindness
  - Screenshot 2: Simulation for severe motor impairment using mouse
**Introduction**

This project is about the evaluation and design of the interface. We were supposed to survey three existing system and on the bases of these interfaces we have to design an interface with ease of usability for the blurred vision, motor impaired and colour blind people. In this project we have made a frontend for the hotel booking website. This design is made keeping motor impaired, blurred vision, and colour blind people in mind. The Button size, Button spacing and Font colour combination are chosen appropriately taking them into consideration. It is a template of how hotels should designs their website.

Interface is an important part which connects the end user to the backend, hence it should be easily understandable and every clickable object on the screen should be clearly visible. And this is what describes its utility for the users. The People who have blurred vision or colour blindness finds it difficult to operate interface with improper combination of colour or buttons and results in strain in their eyes hence this kind of interface would be easier for them to use.

**Design Survey**

**Three existing systems**

For the same purpose, we surveyed the three existing systems namely Taj hotels and resort, Oberoi hotel and JW Marriott hotel. The link for websites respectively is:

- [http://www.oberoihotels.com/?gclid=CL7wz7fkwLoCFaI5pgodnS8AXQ](http://www.oberoihotels.com/?gclid=CL7wz7fkwLoCFaI5pgodnS8AXQ)

While checking these systems we found that form filling website are not appropriate for blurred vision, colour blind and motor impaired people.

**Usability issues with system**

Usability issues we found with this website are that, the interface buttons are not appropriately spaced visible which would be a problem for the motor impaired people to use. The font size of the content was very small which in turn affect the visibility and make it difficult for people with blurred vision to operate it. Then the colour combination used for the website was inapt for blurred vision as well as for the colour blind people.

**New Design**

**Description:**

When we made interface we tried to overcome the above problems. We spaced the button suitable with correct font size, enlarged them properly, used appropriate colour combinations and tried to improve its visibility. For doing the same we used design bed.
Following are the screen shots:

**Screenshot 1: Form Design**

![Form Design Screenshot]

**Figure 1: Form Design**
Figure 2: Result Screen
**Evaluation through Cambridge Simulator**

We used Cambridge simulator designed by Dr. Pradipta Biswas. It consists of visual, motor and hearing impairment simulator, which helps in coming to a decision that how different type of users with different disabilities goes through different experiences over the same interface.

**Screenshot1: Simulation for mild visual impairment and colour blindness**

![Simulation for mild visual impairment and colour blindness](image)

**Figure 3: Simulation for mild visual impairment and colour blindness**
Figure 4: Simulation for severe motor impairment using mouse