GROUP PROJECT

EVALUATE AND IMPROVE GUI OF A CHosen WEBSITE(S)

TOPIC: Evaluate with the help of Cambridge Simulator and with the help of Design bed design a new interface for it which is more interactive and good for differently abled people (test cases pre-defined)

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IIT MANDI 3RD YEAR
# PROJECT REPORT

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1 **AIM:** TO EVALUATE DETAIL FOLLOWING WEBSITES GUI

1. www.infibeam.com
2. www.redbus.in
3. www.filehippo.com

2 **INTRODUCTION**

2.1 **WWW.INFIBEAM.COM**-- this page or design is about to fill details after selecting your order on infibeam.com. orders consists of various types of items ranging from daily use house hold item to latest electronic gadgets. There are some boxes marked with a dot to be filled compulsory and some are optional boxes. When user clicks proceed to pay then he is directed to next page titled “Make Payment”.

![Design 01](image)

2.2 **WWW.REDBUS.IN**-- this is starting page of redbus.in which asks details of your journey source and destination and dates. Then it directs you to next page for booking your ticket with details of buses their timing and with an option to show seats available.
Design 02

2.3 [www.filehippo.com](http://www.filehippo.com) -- this is a site which gives us access to popular software and their links to download. When we click a name then it take us to its download page. This page also hosts advertisements.

Design 03

3 DESIGN SURVEY

We have used simulator to evaluate our three chosen websites with given two conditions and their screenshots with review has been posted here.

Test case 01: Simulation for mild visual impairment and colour blindness
Test case 02: Simulation for severe motor impairment using mouse
3.1 Evaluation of design 01 under two conditions

3.1.1 SAMPLE 01 (www.infibeam.com) Test case 01

REVIEW – A person with mild visual impairment and colour blindness will not be able to see the written words clearly however as contents are less in the page it will not be a big deal for him/her to find out what to do when he/she goes for zoom feature of browser.

3.1.2 SAMPLE 01 (www.infibeam.com) Test case 02

REVIEW – it will take 1326 msec for a severe motor impairment using mouse to reach to proceed to pay icon, as per simulator he/she will not be able to go in one straight line like normal people do .it will be difficult for him/her to click that icon.
3.2 Evaluation of design 02 under two conditions

3.2.1 SAMPLE 02 (www.rebus.in) test case 01

REVIEW – As contents are very few and background is only white it is not so hard for a person having problem in watching with disability of colour blindness and blur vision to find the areas as font used are still readable.

3.2.2 SAMPLE 02 (www.redbus.in) test case 02

REVIEW – A person with severe motor impairment will take 706 msec to click the icon stating search buses in red colour. This icon is near to centre of the screen and it’s different from its background so it will be easy for one to find and click it.
3.3 Evaluation of design 03 under two conditions

3.3.1 SAMPLE 03 (www.filehippo.com) test case 01

REVIEW – a long list of contents makes user not with normal vision to visualize anything apart from advertisement written in the middle of the page. Small font has also increased problem to differentiate contents from each other.

3.3.2 SAMPLE 03 (www.filehippo.com) test case 02

REVIEW – A person with severe motor impairment will take 1020 msec to reach “anti-malware” segment stated in red colour icon. Diagram shows that initial impulse is small and iterative correction has been used extensively when cursor is about to
4 New Design

Description: -- these are designs proposed by us for design 01 and design 03.

4.1 proposed design for design 01
## 4.2 Proposed design for design 03

### Google Chrome

<table>
<thead>
<tr>
<th>Description</th>
<th>Technical</th>
<th>Change log</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google Chrome is a browser that combines a minimal design with...</td>
<td>34.53 MB</td>
<td>Similarities</td>
<td>Linux, Windows</td>
</tr>
</tbody>
</table>
4.3 design made in visual basic as per proposed design 03 (we were asked to make model of one design)

5 Evaluation through Cambridge Simulator

In this section we have to simulate our proposed model after creating its replica in visual basic and using Cambridge simulator

Screenshot 1: Simulation for mild visual impairment and colour blindness

Screenshot 2: Simulation for severe motor impairment using mouse

5.1 Simulation for mild visual impairment and colour blindness
**REVIEW** – This design is far better than the original one as it is clear for person having blur vision and also colour-blind.

### 5.2
Simulation for severe motor impairment using mouse

**REVIEW** – this design helps people to see objects clearly and they take less time to go to a point and also they don’t get confused.