E-Panchayat interface for rural Indian users

HCI Course (2013)

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1. Introduction

We are presenting a new e-Panchayat interface that will be easy and comfortable to use.

In India more than 70% people live in rural parts of country and villages and there is no concept of computer education. Only few people in such parts have computer and internet knowledge. The Indian government is now exploring the e-governance concept. E-Panchayat is basic unit where e-governance concept is applied firstly to develop basic infrastructure of India.

2. Team structure

<table>
<thead>
<tr>
<th>Name</th>
<th>Roll No.</th>
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<tbody>
<tr>
<td>Anil Kumar Jhajharia</td>
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</tbody>
</table>

3. Evaluating existing website interfaces

We have searched for some sites which already have an e-Panchayat interface, and chose three among them. List of the websites is:

- [http://epanchayat.ap.nic.in/](http://epanchayat.ap.nic.in/)
- [http://cg.nic.in/epanchayat/](http://cg.nic.in/epanchayat/)

Design of these interfaces is surveyed under two conditions:

- Screenshot 1: Simulation for mild visual impairment and colour blindness
- Screenshot 2: Simulation for severe motor impairment using mouse
• **3.1 Survey 1: user evaluation for [http://epanchayat.ap.nic.in/](http://epanchayat.ap.nic.in/)**

**Fig1:- original website**

![Original website screenshot](image)

*This interface is provided by Andhra Pradesh government for e-panchayat facility. This interface doesn’t has many links and data.*

**Screenshot2: Simulation for mild visual impairment and colour blindness**

![Simulation screenshot](image)

*This interface can be seen by a person who has colour disability and blur vision. Small fonts are hard to read.*
A person with severe motor impairment will take 985ms to go in dark blue centre.
3.2 Survey 2: user evaluation for http://www.panchayat.gov.in/panchayat-enterprises-suite

See fig. 1: original website

Review- above screenshot is taken from panchayat.gov.in, it doesn’t have much photos or big fonts. A small series of links are provided in right upper part.

Screenshot2: Simulation for mild visual impairment and colour blindness

Review: a person having problem in watching disability of colour blindness and blur vision will have little problem in icons of search, sign in, home etc which are situated in right upper corner.
Screenshot 3: Simulation for severe motor impairment using mouse

Review: A person with severe motor impairment will take 5450 ms to reach corner button from centre which is too high.
3.3 Survey 3: user evaluation for http://cg.nic.in/epanchayat/

See figure 1:

this website has several links on the left side, and a picture on right side.

Screenshot 2: Simulation for mild visual impairment and colour blindness
Review: This interface is hardest among three interfaces to read when person has mild blurred vision with colour blindness.

Screenshot 3: Simulation for severe motor impairment using mouse
Review:- A person with severe motor impairment will take 958 ms to reach on the centre of picture from side.

4. New Design

A new interface can be implemented, which will be easy to use and even people with physical disabilities can use that.

New interface has user login system for people of village and employees. In this website interface mostly used services are put on left side with equal ratio.

(See Figure 1.)

On the “Home” tab there is news feed column in the right side which will sow current news about digital-Phanchayat project and Panchayati Raj and Rural Employment department. (in figure 1)

On the other side when we click on “About us” tab, it converts to colour slightly light blue which helps us to identify that which tab is open. (See Figure 2.)
5. **Evaluation through Cambridge Simulator**

**Screenshot 1, 2:** Simulation for mild visual impairment and colour blindness
These designs are much more visible than previous one and have more functions to do.

**Screenshot 3, 4:** Simulation for severe motor impairment using mouse
Review: these designs are less confused than the previous one although these have more data and links.

6. Reference

- Home page image: 29 Nov 2013
  http://www.ubqool.com/imageController.htm?module=contentDetail&id=80053

- E-panchayat info: 29 Nov 2013
  http://epanchayat.in/