

Graphical User Interface

Chapter Three - part1 Phases of Interface Design

Editor
Dr Taha Hussein Rassem
Faculty of Computer Systems and Software
Engineering
tahahussein@ump.edu.my

Chapter Description

Aims

- To Understand the user interface design process.
- To identify the components of GUI.
- To identify the roles of use GUI components to build a good GUI.

Expected Outcomes

- Understand the user interface design process.
- Able to design a good GUI.

References

The Essential Guide to User Interface Design, Third Edition, Wilbert O. Galitz, Wiley Publishing Inc.

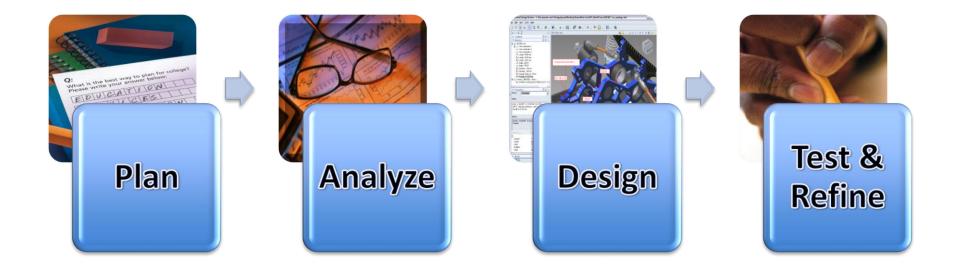


Chapter content

- Contextual enquiry
- Analysis
- Design
- Construction Interface/ Prototyping
- Usability Testing
- Iterate/refine design
- Develop Writing code
- Polish review all



General Structure





Contextual enquiry (CE)

Contextual inquiry is basically a structured field interviewing method, based on a few core principles that differentiate this method from plain, journalistic interviewing. Contextual inquiry is more a discovery process than an evaluative process; more like learning than testing.

(James Hom)



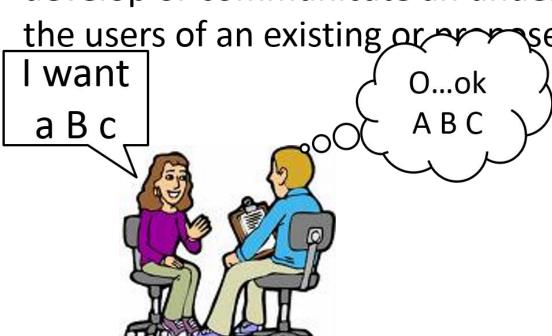
Contextual enquiry is a technique for examining and understanding users and their workplace, tasks, issues and preferences. It can be used to produce user needs analyses and task analyses, and feeds directly into design.

(Gerry Gaffney)



When is CE appropriate?

 CE is appropriate whenever you need to develop or communicate an understanding of the users of an existing or resed system.





Analysis

A process in problem solving techniques.









Appreciation

 Extracting All Most Information From Facts

Drill Down

Breaking Problems

Down into

Manageable Part

SWOT

 Analyzing Your Strengths, Weaknesses, Opportunities & Threats



A hands-on exercise...

- Let say you have been offered with two different jobs,
 - One with multinational company with big salary and need to work abroad.
 - One with small local company with moderate salary and most of the time you just work in your office.
- How to decide?

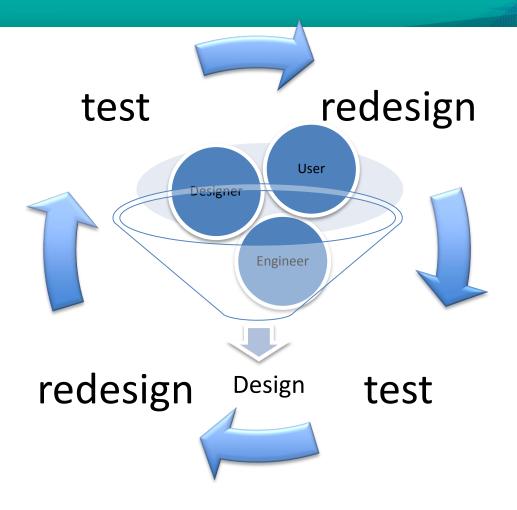


Usability Testing

- Recall your second lecture!!!
- Usability measures the quality of a user's
 experience when interacting with a
 product or system—whether a Web site, a
 software application, mobile technology, or
 any user-operated device.



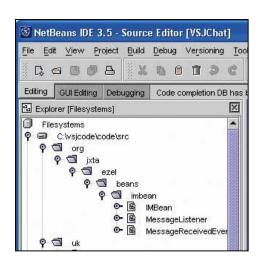
Iterate/refine design

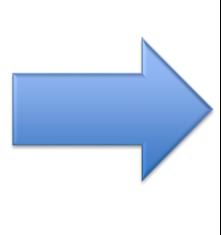


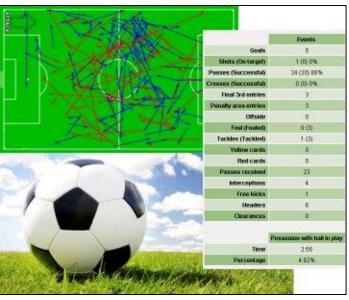


Develop – Writing code

```
1 < !DOCTYPE HTML PUBLIC "-//W3C//DTD
   "http://www.w3.org/TR/html4/stri
 <html>
     <title>Example</title>
     k rel="stylesheet" href="s!
   </head>
   <body>
     <div id="header">
       <h1><a href="." title="Back
     <div id="toolbar">
       <span class="left">Today <sp:</pre>
       <span class="right">
         <span id="time">&nbsp;</sp</pre>
         <select id="timezone">
           <option value="-12">(GMT-
           <option value="-11">(GMT-
```









Further readings:

- http://www.deyalexander.com/resources/uxd/contextual-inquiry.html
- http://www.mindtools.com/pages/article/newTMC_05.htm

