COMPSCI 345 SOFTENG 350

Human-Computer Interaction (HCI)

Test Tutorial

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Execution/Evaluation Action Cycle

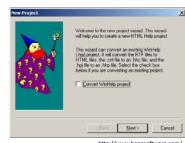
- The Gulf of Execution looks at how easily an interface allows to carry out the actions we intend.
- Think about the front page of an online bookshop where you wish to purchase a copy of the course textbook by Heim.
 - Describe information and functions that, if missing, would increase the gulf of execution for this task.

Test Reminder

- Friday, 8 April at 1pm
- 50 minutes
- MLT1 (for surnames starting with A-R)
- OCH2 (for surnames starting with S-Z)
- Short answer
- Heim, Chapters 1-6 plus Guest lectures
- Previous years' tests online

Metaphor

- The metaphor of a wizard is often used for configuration tasks, as shown in the picture.
 - List three properties of a wizard that makes them an appropriate metaphor for this task.
 - Describe ways in which this metaphor can break down.



Stakeholders

• Identify the stakeholders in the four main categories for the new "HOP" Auckland transport card website.

Discount Usability Engineering

- Discount Usability Engineering utilises the "thinking aloud" protocol.
 - Describe what is involved in using this technique
 - How would you use this technique to help implement User Centred Design

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Interaction Styles

 Consider the abilities of Command Line Interfaces versus Menu-based Interfaces.
 Specify environments and tasks which would be better suited for each of these interface styles.

Interaction Styles

Imagine that you want to delete a single file.
 Discuss the advantages of a Direct
 Manipulation interface versus a Natural
 Language interface for this task.

Design Principles

- Which Gestalt principles are being used in this website?
- How can you tell?

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Design Principles

- What are some of the trade-offs when increasing screen complexity in regards to usability?
- How would this influence your approach to user interface design?



Heuristic Evaluation

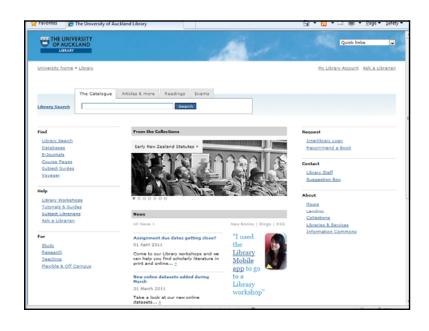
 Perform a heuristic evaluation on the following webpage using Nielsen's 10 Usability Heuristics. You are aiming to use this site to find Heim's textbook on 'The Resonant Interface'.

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Low-Fidelity Prototype

- At what stages of a software project would you consider using low-fidelity prototyping?
- Describe some of the benefits that low-fidelity prototyping provides.

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Scenarios

 Write a scenario for the task of purchasing online music a mobile phone to be downloaded onto the mobile phone.

You need to include:

- Scenario name
- PACT analysis
- Scenario description