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Seminar session – Unit 6

Software Engineering Project Management – User Experience

(seminar is being recorded)

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Outline

- Announcements
- The importance of …..
- Heuristics & CUE Model
- Pytest
- Seminar reading and questions
- QA & Next Week

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Announcements

- Easter break: 15th – 18th April
- Forums
- Peer Reviews: 1 – 5
  - Aim for scores between 2 – 4; 1 or 5 should be exception
  - PLEASE raise any concerns with non-attenance/ participation with tutor

The importance of ...

- Product Design & User Experience:
  - Douglas Engelbart (1968) - NLS
  - Jef Raskin (1979) – Macintosh; Canon Cat
  - Tim Berners Lee (1991) - WWW
  - Jakob Nielsen (1993) - Heuristics
- What lessons can be learned from the above?
- What role does the SEPM play?

Nielsen Heuristics

- Visibility of system status
- Match between system and the real world
- User control and freedom
- Consistency and standards
- Error prevention
- Recognition rather than recall
- Flexibility and efficiency of use
- Aesthetic and minimalist design
- Help users recognize, diagnose, and recover from errors
- Help and documentation

CUE Model

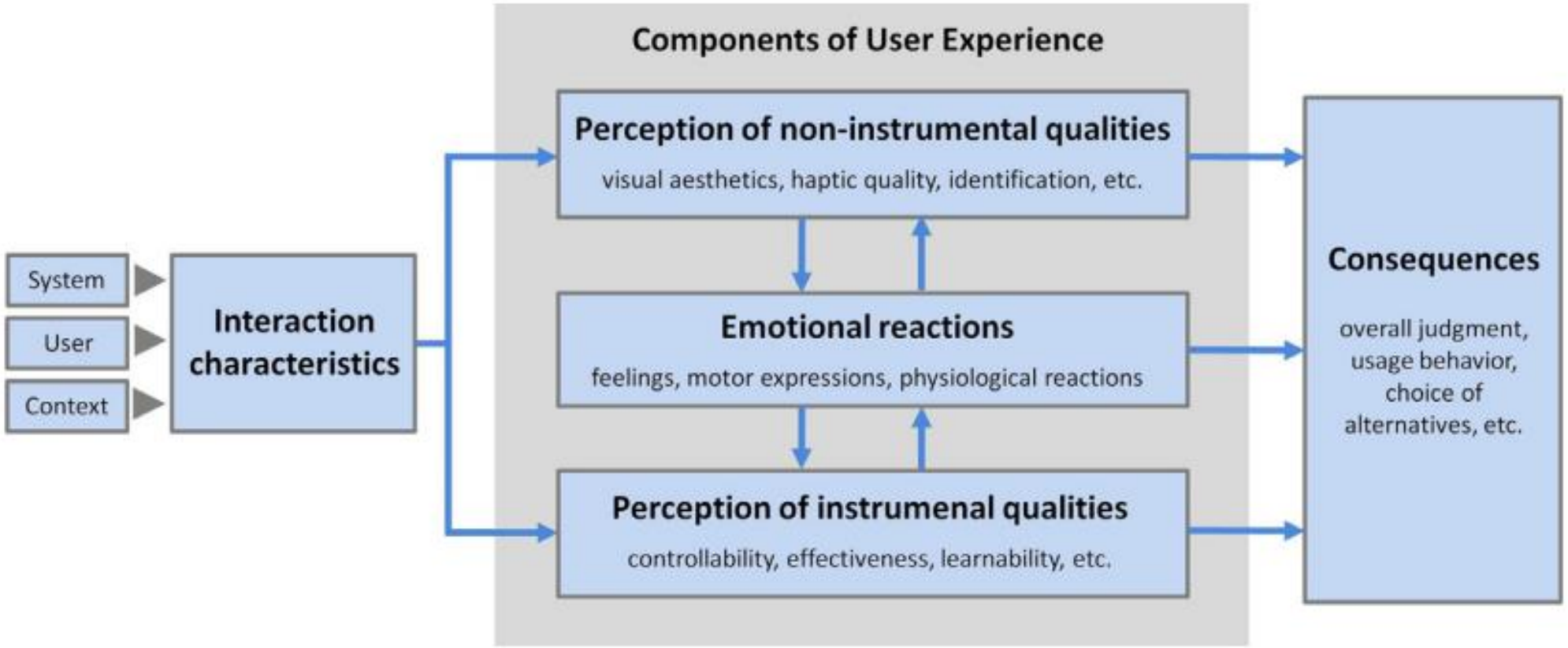

Fig. 1. Components of User Experience (CUE model) by Thüring and Mahlke (2007).

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Seminar – Reading & Questions

Read *Minge & Thuring* (2018). Based on the change in human emotion over time, might you adapt Figure 1 in their paper in any way?

How would you test:

- Perception of non-instrumental qualities?
- Emotional Reactions?
- Perception of instrumental qualities?
- What is the role of the SEPM in this testing?

Pytest

- Pytest is a Unit Test Framework
- Unit tests are created from design (e.g. UML) or specifications
- Basis of TDD – create tests first, write code to pass tests
- Always checks that code satisfies test
- Does this ensure requirements are met?

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Assessment 1

Checklist

Each deliverable for this assessment is mentioned below and is equally distributed across 3 grading criteria (see Module Resources page for full list): (**Knowledge and understanding weighted at 25%**, **Application of Knowledge weighted at 25%**, **Criticality weighted at 25%)**

- Design description with SDLC selected and justification for selection.
- List of requirements gathered.
- Estimates of implementation time.
- List of requirements included in the demo/ simulation (with reasons for prioritisation).

- Plan of sprints/ phases and included products.

Presentation and Structure of your work (weighted at 25%) includes spelling, style, evidence of proofreading, correct use (and format) of citations and references.

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Further Info & Questions

- Next session (unit 8): Create a python program that implements one of the estimation methods covered in the lecturecast. You can use the Jupyter Notebook workspace in Codio and save your work to your GitHub repository. Also review the risk assessment reading from the articles by Verner et al (2014) and Anton & Nucu (2020)
- REMEMBER: Assessment due this week (Mon 20/12 at 23:59)
- Office Hours: Weds 1 – 2 pm
- Fri 6 - 7pm
- Any questions?