

Interação Humano-Computador
Human-Computer Interaction
2020/2021

Assignment 1:
Analytical evaluation of an Interactive Application/System usability/UX

This assignment is aimed at the evaluation using analytical methods of an interactive application/system. Each team (**three students**) should select an interactive application/system and indicate their choice in class. It should be, as much as possible, an application/system considered as not providing a good user experience (UX).

Examples of types of applications/systems:

- S/W (IDEs, Operating systems, other professional S/W)
- University applications
- web applications (digital libraries, home banking,...) , mobile apps, etc.
- consumer electronics (TV , home audio, vehicle electronics , appliances, phones...)
- wearable devices (smart watches, fitness bands, etc.)
- office (copier, printer, scanner, fax, etc.), scientific or medical equipment...

The UI should not be too simple; if too complex you may evaluate only part of it.

Propose your choice in lab class#2 for validation by your professor.

Schedule and deliverables

Class # - Deadline	Deliverables
Lab Class #2 P3 - 23/03 P1, P2, P4, P5, P6, P7 18/03	Deadline to select an application/system to evaluate.
Lab Class #4 P3 - 13/04 P1, P2, P4, P5, P6, P7 08/04	Presentation slides must be submitted via Moodle with a file name according to the instructions
Lab Class #4 and 5 P3 - 13,20/04 P1, P2, P4, P5, P6, P7 08,16/04	Assignment presentations

Perform a heuristic evaluation (HE) (the three students must work independently in a first phase) using the 10 heuristics by Nielsen or any other set you consider adequate (after discussing in class its adequacy to the specific case).

Find usability problems and assign a severity degree to each problem (use the scale proposed by Nielsen).

Select target users and an important task that has to be easy to learn and analyze it using the **Streamlined Cognitive walkthrough (CW)**.

Read the slides with guidelines and examples to prepare the presentation.

Prepare a 15-minute presentation following the guidelines available in Moodle (~15 slides in English) briefly describing:

- the application/system and intended usage (target users, main tasks...)
- the methods used in the evaluation (including the heuristics sets)
- the main results obtained with HE and CW
- a table with a summary of problems found by each and all evaluators
- your overall appreciation about the usability and UX

The presentation file should be named as: "PX_name of system evaluated"
(e.g. P1_SmartWatch)

Submit the presentation via Moodle:

April 8 (Thursday classes)

April 13 (Tuesday class)