

**Human-Computer Interaction  
2023/2024**

**Assignment 1**

**Analytical evaluation of an Interactive Application/System usability/UX.**

**Introduction**

This assignment is aimed at the evaluation using analytical methods of an interactive application/system. Each group (**three students**) should select an interactive application/system and indicate their choice in class. It should be an application/system related to the project (see assignment 2) students will select for the whole semester and, as much as possible, 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 might evaluate only part of it.

**Propose your choice (for both assignments) in lab class#2 for validation by your professor.**

**Schedule and deliverables**

Class # - Deadline		Deliverables (evaluation %)
<b>Lab Class #2</b>		<b>Deadline to select an application/system to evaluate.</b>
P1, 3, 5, 7	27/02	
P2, 4, 6	22/02	
<b>Lab Class #3</b>		<b>Presentation slide must be submitted via Moodle with a file name according to the instructions</b>
P1, 3, 5, 7	05/03	
P2, 4, 6	29/02	
<b>Lab Class #3 and 4</b>		<b>Assignment in class Presentations</b>
P1, 3, 5, 7	05-12/03	
P2, 4, 6	29-07/03	

**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 must 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** (~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 through Moodle:**

<b>March</b>	<b>05</b>	(Tuesday classes)
<b>February</b>	<b>29</b>	(Thursday class)