PROJECT ASSIGNMENT 1 (PA1)

*FIT-HCMUS - CSC13112 - UI/UX Design - Dr. Le Khanh Duy*

**Deadline:** **3 weeks (W01-02-03-04)**. Please check the submission link on Moodle.

**Total points: 75/500**

This is a teamwork assignment.

# PA Schedule

| **PA** | **PA (500, subject to change later)** |
| --- | --- |
| *PA1* | *75*  *Product Research*  *Potential Solutions* |
| PA2 | 100  User Research, Vision Document  Use Case Spec |
| PA3 | 150  Paper Prototype (2 scenario \* 3 alternatives)  Informal testing  Points for improvements |
| PA4 | 175  Hi-fi Prototype  Summative user study  Presentation / Demo |

# Objectives

In this PA, students are asked to form project groups, survey existing products, then define your project problems, initially analyze and propose solutions.

# Requirements

## Requirement 0: Group Registration

Students are asked to form groups of 4-5 students each and fill in the group information on a Google Sheet.

## Requirement 1: Existing Products Research

**This year’s topics are learning and sports.**

Groups are asked to choose 2 real-world products related to these topics and analyze them.

While groups can choose one product in the learning topic and another in the sports topic, they are encouraged to choose two products within the same topic. This approach allows groups to gain a thorough understanding of the topic, which will help them develop suitable project ideas for the following PAs.

The products can run on web environments, mobile phones, smartwatches, billboards, housewares, or any electronic devices.

Write an analysis report about these products from user interaction and experience perspectives based on fundamental HCI concepts that the groups have learned so far (human capabilities, user mental models, interaction metaphors, usability).

Groups should answer the following questions:

* Name and domain of the product.
* Who are the users?
* Some core use cases of the product (describe in detail the context of each use case such as where, when, situations of users (sitting, standing, lying, running, etc.), and methods of user interaction with the product via its interface).
* Analyze the benefits and drawbacks of the product’s interface based on fundamental HCI concepts.
* Consider different types of users who might use this application and possible contexts where difficulties and hindrances might occur with the given interfaces and interactions that the products currently provide.

When analyzing the benefits or drawbacks of the product’s interface, illustrate with very concrete and specific use cases. For example, if a certain screen requires the user to scroll unnecessarily to tap a button due to an unreasonably stretched-out interface, explain why. Or if an application automatically saves the current page of the book the user is reading but does not provide any feedback, making the system not informative about the status to the user, describe this scenario. DO NOT DESCRIBE THE BENEFITS OR DRAWBACKS IN GENERIC AND SUPERFICIAL WAYS.

## Requirement 2: Potential Solutions Identification

Based on the above research, groups should write a brief description proposing several solutions for the mentioned drawbacks. These solutions should be practical, innovative, and aligned with the fundamental HCI principles learned in class. For each drawback identified, provide a detailed explanation of how your proposed solution addresses the issue.

## Requirement 3: Peer Review

Groups are required to present their work during lecture sessions, within a 5 to 10-minute timeframe.

After the presentation, lecturers and other group members will provide feedback.

Groups must document the feedback and questions in a report, including the name of the commenter, the feedback or question, and the group's responses.

They will then have several days to revise the project requirements before submitting the final version on Moodle.

## Requirement 4: Weekly Report

Groups must track each member’s tasks using the provided weekly report template.

Link: <https://drive.google.com/file/d/10Si9z3s-rjtn4oaoz8HMkQP1as7iSPVH/view?usp=sharing>

# Grading Scheme

* Requirement 1: Product research (60%)
* Requirement 2: Potential Solutions Identification (25%)
* Requirement 3: Peer Review (10%)
* Requirement 4: Weekly report (5%)

# Documents to be submitted

* Requirement 1: GroupID-PA1-ProductResearch.pdf
* Requirement 2: GroupID-PA1-PotentialSolutions.pdf
* Requirement 3: GroupID-PA1-PeerReview.pdf
* Requirement 4: GroupID-PA1-WeeklyReport.pdf

Submission name: **GroupID-PA1.zip**