CS325 Group Project Assignment #1 – Project Definition

Overview

This group project assignment asks each group to conduct collective ideation and study and carefully define the group project by selecting the target application. The group project should try to address a practical problem with the novel use of Augmented Reality (AR) technologies.

The group may brainstorm the target application based on their prior knowledge/resources/connections and may also conduct literature work for inspiring ideas. Comprehensive discussion and study is strongly encouraged to select the target application as the selected application will be worked on through the whole group project.

Therefore, please make sure:

- You have the access to engage the users of the selected application as user centered design process will be deployed.
- There is justifiable value to apply Augmented Reality for the selected application.
- There is a need for EZAR (the configuration control system) to help configuring the virtual objects and environments of the AR system.

This assignment takes 5% weights of the Group Project assessment.

Deliverables

Each group needs to submit an essay of no more than 2 pages of text. Your essay should include:

- Project context and objectives (2.5%)
- Solution sketch (2.5%)

Project context and objectives

The writing should clearly present the key background information of the selected application and the motivation of applying AR. This could include:

- The target domain and target users
- The motivation of applying AR technologies, i.e. the limitation of the existing technologies/practices, the problem/challenge statement, etc.
- Articulations on how AR can address the problem/challenge statements.

Solution sketch

The writing should give a brief but clear sketch of the AR-based solution(s) you are considering, such as the AR devices that the users will be using, single player mode or multiplayer mode supported, the role of the EZAR, etc.

Since applying AR for the selected application has barely been specified and no user interview has been done yet, the solution sketch could be general.

Other information

A cover page should be added to the essay and should include the administrative information of the team, such as the Group Number, the names of the team members, etc. Supportive information, such as references, diagrams, pictures, etc., can also be included in the essay and will not be counted against the 2-page limit.

Submission

The essay should be submitted in MS word format (.docx). Please name the essay by following the format "CS325_PA1_Group #.docx". Example: CS325_PA1_Group 10.docx.

Each group only needs to make one submission. The deadline for the submission is: 11:59PM on 1 Oct 2021 (Friday).