

CS325 Group Project Assignment #2 – User and Task Analysis

1. Overview

This group project assignment is the 2nd assignment for your group project. Based on the identified target application in your 1st assignment, you are asked to do the following:

1.1 User analysis

Identify the characteristics of the users for your target application, as we discussed in lecture. If you have multiple user classes, identify each one.

1.2 Task analysis

Determine the tasks of the target application you've chosen, analyze their characteristics, and answer the general questions about tasks covered in lecture. Think about other questions you should ask that might be relevant to the particular domain for your target application.

You should find and analyze at least 3 high-level tasks. If you can't find 3 interesting tasks, then your selected target application may be too small to serve as a good project, and you should rethink it and revise the Project Assignment #1. Every task should have a goal and subtasks. Some tasks may also need preconditions, exceptions, time constraints, etc.

1.3 Domain analysis

Determine the important entities and relationships of your target application, and show them in a diagram (i.e. entity-relationship diagram). Include multiplicities where is important. Include text that defines entities or relations that aren't obvious.

1.4 Important notes

To gather information for the user and task analysis, you must engage with at least 2 representative users of your target application (or at least 1 from each user class if you have multiple user classes). Given the present COVID-19 situation, you may choose to talk to these users online.

When you write up your analysis, you must give evidence that you have engaged the users, but don't need to provide a narrative of these sessions. Instead, offer your conclusions.

This assignment takes 15% weights of the Group Project assessment.

2. Deliverables

Each group needs to submit an essay and your essay should include sessions covering User Analysis, Task Analysis, Domain Analysis.

Specifically, you need to include:

For User Analysis (5%):

- Identified user classes of your target application
- Characteristics of the identified user classes
- A persona to illustrate each of the user classes

For Task Analysis (5%):

- List of identified tasks
- How is the task analysis conducted? (engage at least 2 representative users or at least 1 from each user class, if you have multiple user classes)
- Essential and relevant information for each of the identified tasks
- A HTA/ERD diagram illustrating the hierarchical structure of the identified tasks

For Domain Analysis (5%):

- List of identified important things in the domain
- Diagrams with multiplicities showing the important relationships among the identified important things

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.

3. Assessment Guidelines

Each of the session (User Analysis, Task Analysis, Domain Analysis) will be assessed with the following guidelines.

3.1 Completeness

For example:

- The team should try to identify as complete as possible users/tasks/relationships.
- At least 3 high-level tasks should be identified.
- The team should try to engage the required representative users with evidence to be included in the essay.

3.2 Writing

The writing must clearly present the process and results of the analysis by following the outline in Section 2.

3.3 Application of knowledge

The team should try to apply the knowledge learnt from the lecture to conduct the analysis. Methods or approaches not covered in the lecture can also be used but references should be given.

4. Submission

The essay should be submitted in MS word format (.docx). Please name the essay by following the format "CS325_PA2_Group #.docx". Example: CS325_PA2_Group 5.docx.

Each group only needs to make one submission. The deadline for the submission is: **11:59PM on 19 Oct 2021 (Tuesday)**.