CS225: Intro. To Software Engineering

CS225: Intro. To Databases

Assignment 2

Software Requirement and Design Specification

Instructors: Ahsan Shah

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Assignment description

General information

This assignment asks you to practice requirements engineering. The aim is to prepare a Software Requirement & Design Specification (SR&D Specification) of your assigned project. You have to use the standard IEEE format used for the SR&D Specification documents (provided). Please note, the assignment deadline is 2022-06-01 on google classroom as well as two hard copies for project evaluations.

Task description

You are already assigned with the project idea. All you have to do is to practice the requirement engineering and design process to clear all the requirements and design constraint. You have to identify all the stakeholders and analyze their needs. Finally you have to prepare a formal document according to above mentioned template, stating all the user and system requirements. Requirements modeling is required: Construct your system models in UML.

For design, all you have to do is to practice the designing process to model all the possible views (4+1). Documents all the perspectives and view of your projects according to the 4+1 Architecture guidelines. You also need to add your ER Modeling into your design portion.

Important issues of concern

I would like to reiterate some concerns shared with you earlier during the lec-tures:

There would be Zero tolerance" for plagiarism.

* + - Considering that you are aspiring computer scientists, you must be able to motivate any choices you make and any claims you choose to include in your reports. Therefore, we encourage you to use existing research literature to substantiate your claims and to provide motivation of your choices.
    - Please use a professional grammar/ spell checking tool e.g., Grammarly, before you submit any assignment.
    - All deadlines in the course will be followed strictly.
    - Noncompliance would result in a penalty automatically.
    - Properly reference the material that you are writing from some source (internet, research papers or any other).

Assessment and Rubrics

To asses this assignment, following characteristics will be considered.

* + - Problem formulation
    - Effective use of each section of standard SR&D Specification template provided