COM S/SE 319 : Construction of User Interfaces
Spring 2021

HW5

[Total Points: 30]

Assignment Due: Sunday, April 4, 2021, 11:59 PM

You can use (but are not required to) use these free UML tools:
- Google drawing (https://docs.google.com/drawings/)
- https://www.lucidchart.com/
- https://www.visual-paradigm.com/solution/freeumltool/

Task I: SYSTEM MODELING AND UML DIAGRAMS (30 Points)
Please find below the scenario for the construction of UML diagrams and answer the questions after that.

A Survey Tool is a system used to create a survey over the internet. The Surveyor creates a survey for participants to fill out. The tool allows a variety of survey options from multiple choice or short text. Once the survey is created, the Surveyor must be able to add the emails of the participants and send out the survey. The survey must have an expiration date and time. The survey cannot be modified once the survey is sent out. The respondents may choose to participate in the survey or decline to participate as well. No participant can respond once the survey expires. The participant can request the surveyor to extend the survey which the surveyor must approve. Once the survey has been completed, the surveyor can close the survey and generate a report.

1. **Draw the** Use Case diagram **mentioning the** actors, **lines associated with each actor, appropriate** use cases **and** relationship **(<<include>>) between appropriate use cases for the above Survey System.** **(10 points)**

2. **Draw the** Sequence diagram **with appropriate** messages, **attributes,** activation bar **(lifeline, objects are given) for creating a Survey and sending it out for above Survey System.** **(10 points)**

3. **Draw the Class diagram with appropriate** class, **attributes,** generalization, **association, aggregation for above Survey System.** **(10 points)**

What to Submit:

Submit via Canvas a **pdf** file containing the answers of all the above tasks. Please Make sure diagrams are drawn legibly using UML diagram/ drawing tool.

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