



## 605.601— Foundations of Software Engineering - Fall 2020

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### Assignment 02: Team Project – UML Models and Analysis

Due Date: **Week 9: October 26, 2020**

Please review the course materials from Module 03, 04, 05, and 05A before you start with this assignment – and be prepared to work as a team. Please submit one response for the team.

1. Explore and Install a UML-based CASE tool (preferably STAR UML – free version) so that it is available to all of your project team members.
2. Please 'create a Project' in the CASE tool. This will usually be creation of a project file or a workspace. Name the file appropriately as <studentgroupname>HMS-UML-Model\*\*\*.
3. Explore creating a couple of diagrams in a *shared* mode – that is, two or more team members attempting to work on the same diagram at the same time (*note: the challenge here will be conflicts in the modeling files.*)
4. Identify and model decomposed subsystems of your project as Packages – just one focus area of your choice (based on your Assignment 01 exercise)
5. Create high-level Package diagram based on the requirements of the system. Ensure there is at least ONE package for the entire team.
6. Attempt to write four Use Cases for your team. Add one non-functional (feature, operational) Use Case. Finally, identify any other use case(s) you can find in your area of focus.

**Deliverable 1:** A brief description of your analysis that you and your team is pursuing. This may include your reasoning behind choosing the 'actor' and 'use cases', any dependencies or potential connections – and why you believe these choices are important.

**Deliverable 2:** A set of diagrams – you may save your diagrams and the package in PDF format if you like or prefer. Remember, you will use these diagrams in your next assignment.

Please contact me with any questions or suggestions you may have.