About the assignment

This is an individual assignment with two parts. Part 1 is a case study that requires you to develop diagrams and narratives for an Inception phase deliverable. Part 2 involves a little research.

You can use any credible resources to assist you in completing this assignment. Respond to questions in your *own words* and use your *own diagrams*. (I.E. don’t copy and paste directly from any source). Even when we paraphrase, we must give credit to the authors of the original source. Place your citation(s) immediately below your response for each question.

Some suggested resources for this assignment:

[Object Management Group](http://www.uml.org/)

[Rational Unified Process (RUP)](http://www.ibm.com/developerworks/rational/library/content/03July/1000/1251/1251_bestpractices_TP026B.pdf)

[The Agile Unified Process](http://www.ambysoft.com/unifiedprocess/agileUP.html)

[Agile Modeling and The Unified Process](http://www.agilemodeling.com/essays/agileModelingRUP.htm)

[Applying UML in The Unified Process](http://www.jeckle.de/files/uniproc.pdf)

Completing the assignment

Create a document, add a title page, header, footer, and headings for each of the 2 parts of the assignment. Copy the questions from the assignment list (next page) into your document. Insert your responses/diagrams for each question immediately below the question text.

*Use a different style for your text responses to distinguish them from the question text. (E.g. larger or different font, italics, indented etc.). Avoid relying on color to make a distinction - in print form, some colors can look faded, making the text difficult to read. Use bold and underline sparingly - they can create unnecessary clutter and reduce clarity. Best practice: keep it simple.*

If any of the assignment requirements are unclear to you, please ask your instructor to clarify.

Submitting the assignment

Follow the submission instructions provided by your instructor.

Evaluating the assignment

Points (marks) are noted after each question. There are 30 points available in the assignment: Part 1 (25); Part 2 (5). You need to accurately and fully respond to a question (and cite referenced sources) to achieve full marks for the question.

Part One: Case Study (Total: 25 points)

A narrative on the next page describes events that the Real Estate Multiple Listing Service (REMLS) system must respond to. Use the information in the narrative to create the requested diagrams/narratives. You can use any modeling tool of your choice.

1. Use Case Model (2 points) - for all the interactions described in the narrative
2. Class Diagram (12 points) – showing class relationships, multiplicity, key attributes of each class (including those stated in the narrative) and the methods required to realize all the use cases (events) identified
3. Use Case Narrative (6 points) – Provide narratives for all known interactions.
4. Sequence diagram (5 points) – Provide 3 sequence diagrams based on your narratives

The case study begins on the next page and remember that you are in design and will need to create a solution that accurately reflects what the new system will be. Please feel free to be creative.

### Part One (continued)

Case Study: Real Estate Multiple Listing Service (REMLS) [[1]](#footnote-1)

The Real Estate Multiple Listing Service (REMLS) supplies information that local real estate agents use to help them sell houses to their clients.

Agents prepare listings for houses for sale by contracting with homeowners. The agent works for a real estate office, which sends the agents’ listing information to REMLS. Information on a listing includes the address, year built, square footage/meters, number of bedrooms, number of bathrooms, owner name, owner phone number, asking price, and status code.

An agent can search the REMLS system to obtain information on a listing that matches client requirements. Information on the house, on the agent who listed the house, and on the real estate office the agent works for is provided. Sometimes agents use this information to call the listing agent or the homeowner directly to make an appointment to show the house.

Twice each month (on the 15th and 30th), the REMLS produces a listing book that contains information on all listings. Many agents want the books (which are easier to flip through), so they are provided even through the information is often out of date. These books are sent to all of the real estate agents even though the information is available online.

Sometimes agents and owners decide to change information about a listing, by reducing the price, correcting previous information on the house, or indicating that the house is sold, for example. The real estate offices send in these change requests to REMLS when an agent requests them to do so.

Part Two: Research (Total: 5 points) Provide complete answers as there are no part marks for this section

1. Discuss the similarities and differences between Rational Unified Process and Agile Unified Process (2 points)
2. Describe the Scrum approach to systems development. (2 points)
3. List the developers of UML and the group’s popular nickname. (1 point)

1. Satzinger, John W, Robert B Jackson, and Stephen D Burd. Object-Oriented Analysis and Design with the Unified Process. Boston: Course Technology, 2005. 206. [↑](#footnote-ref-1)