Task 3.1: Requirement Analysis: Scenario Analysis

Task 3.2: Requirement Analysis: Actors and Use case Model Analysis

Task 3.3: Requirement Analysis: Activity Model/Diagram Analysis

Developer/Customer groups should have approved USER & SYSTEM requirements.  If a customer group have not approved the requirements and agreed upon the cost and time with their developer group, you are responsible to inform me that your developer groups were late to provide the requirements and approve them with you, otherwise you will be disadvantaged.

Customer groups: you are now required to read and check carefully that the USER & SYSTEM REQUIREMENTS meet your business needs and description as you described them to the developer groups. Identify any discrepancies, i.e. missing or mistaken requirements (complete the assessment form I sent in the previous email accordingly). You can also validate the requirements against the five characteristics criteria – groups who validate requirements get additional rewards.

Developer groups: you should have already started the requirement analysis; you should undertake the following tasks:

**Task 3.1: Requirement Analysis: Scenario Analysis**

**1**-Identify/choose **four or five**key (business) SCENARIOS (that has normal, alternative and error flows) and write them, as drafts. **Each member** of the group should write **One** complete **scenario**. [You can find examples on slide 58+59 Requirements Engineering slides]

Sec 1: Tues 24 April - DRAFT [meet with your Customer Group- during lecture time]

Sec1: Tues 24 April - FINAL version [meet with your Customer Group]

**Task 3.2: Requirement Analysis: Actors and Use case Model Analysis**

**2**- Identify all ACTORS. Write Actors and their semantic descriptions.

**3**- Identify all USE-CASEs, and then Draw an overall/main USE-CASE diagram

Sec1: Tues 24 April: DRAFT (a hand drawn diagram is ok) [meet with your Customer Group-during lecture time]

Sec1: Thur 26 April: FINAL version (must be drawn using a UML tool)

**4**- Identify/choose **Four or five**key USE CASES and write a DETAILED description of each. **Each member** of the group should write a **detailed description** of **One** use case. [You can find examples on slide 43 Requirements Engineering or 63+64 of UML slides]

Sec1: Thur 26 April: FINAL version (must be drawn using same UML tool)

**Task 3.3: Requirement Analysis: Activity Model/Diagram Analysis**

**5**- Identify and Draw a draft **overall/main** ACTIVTY diagram that shows the overall system use-cases and how they interact to achieve a main business process  (a hand drawn diagram is fine at this stage)

Sec1: Thur 26 April: DRAFT (hand drawn diagram is ok) [meet with your Customer Group]

Sec1: Thur 3 May: FINAL version (must be drawn using same UML tool)

**6**-Identify/choose the same **three or four**detailed USE CASES (in step 4 above) and draw a draft **INSTANCE** **Activity diagram** for each, that represent the USE CASE workflow. **Each member** of the group must draw **One** instance **activity diagram** -each should draw the activity diagram for the same one that they have written the detailed USE CASE description for.

Sec1: Thur 3 May: FINAL version (must be drawn using same UML tool)

=> For steps 1, 4 and 6, the group must discuss and then allocate one scenario/use case/activity to each member to complete fully- through the project manager.

=>DRAFT diagrams can be drawn by hand.

=>FINAL Diagrams must be drawn using the same UML authoring tool and bring a printed copy to lecture. You are welcome to use any UML you prefer to use, that supports at least UML 2.0, (there are so many desktop tools to download or you can use an online tool), but make sure all members of the group use the **same UML tool** and the same tool is used throughout the project- members that do not use the same tool would be disadvantaged. The Rational Rose UML tool is installed in the labs, which you are welcome to use too.

I will check for draft and FINAL diagrams (drawn in a UML tool) on respective dates.

**SUBMISSION DEADLINE:** for final versions for all diagrams, steps 1-6 above, is on **Saturday 5 May 2018**. You are required to submit one e-copy to the customer and one e-copy to me on Ritaj, ALL (step 1-6) in **ONE PDF file**, drawn using a UML authoring tool.

All the best, Adel