**Requirement and Design Guide**

**Literature**

[Satzinger] chapter 5 – [Larman] chapters 2 and 6-18 – Read it - when in doubt

**1: System definition (Requirements)**

Identify the requirements and make a System Definition (use FACTOR) for the IT-system. **Comment on your decisions**. Add the System Definition and comments to your report.

**2: Event tables (AS IS/TO BE) (Requirements)**

Identify the tasks in the business and make an event table(AS IS) and an event table(TO BE). If you want you can make activity diagrams. **Comment on the event tables (and diagrams).** Add everything to your report.

**3: Use Cases (Requirements)**

Identify the use cases and make a use case diagram. Comment on the use case identifying and the diagram. Describe use cases brief. Prioritize your use cases. **Comment on descriptions and prioritization.** Add everything to your report.

**4: Domain Model (Requirements)**

Identify the classes and make the domain model. Remember the multiplicities. **Comment on your domain model.** Add to your report.

1. **Prioritization List**

This allows us to see what use cases have to be carried out first so that our system will work at least at the most basic level if we don’t have enough time.

**6: Use Case fully dressed (Requirements and Design)**

Make a fully dressed description of the top use case from the prioritized list. **Comment on the fully dressed use case.** Add to your report.

**7: System Sequence Diagram (Design)**

Create the system sequence diagram. **Comment on the system sequence diagram.** Add to your report.

**8: Operation contract (Design)**

Make the needed operation contracts. **Comment on the operation contracts.** Add to your document.

**9: Interaction Diagram (Use Case Realization)**

The most complex operation contracts are to be realized as interaction diagrams (sequence diagrams OR communication diagrams). **Comment on your choice and the diagram.** Add to your report.

**10: Design Class Diagram (Design)**

Add classes from paragraph 8 to your design class diagram. Remember to show your architecture. **Comment on your diagram and architecture.** Add to your report.

**11: Code…**

Now you can make code by using your interaction diagrams and Design Class Diagram. (Remember to make a code standard before you start coding and add it to your report.)

**12: Repeat from paragraph 6 - 11**

Make the next use case from your prioritized use case list – repeat from paragraph 5 - 10. Add necessary diagrams and text to your report.

**REMEMBER:**

Only **ONE** Use Case Diagram – Only **ONE** Domain Model – Only **ONE** Design Class Diagram (You can show earlier versions of