

Experiment 5

Requirements Validation

Group members:

Each group validates the proposed software system by the following steps.

- 1.** Build a horizontal prototype for the system using PowerPoint or other supporting tools.
- 2.** Inspect the SOFL specification of the system with the following defect checklist and document the inspection process.

Defect Checklist

1. Do the data stores cover all the necessary data resources in the software system?
2. Is there any isolated component in the specification?
3. Is there any inconsistency between processes and their corresponding CDFDs?
4. Is there any inconsistency between the pre- and post-conditions of the connected processes?

5. Do the pre- and post-conditions of each process cover all the possible functional scenarios, especially the ones with exception conditions?
6. Is there any inconsistency among the modules/CDFDs at different levels?
7. Are all the customized types well defined?
8. Are all the system variables well defined?
9. Do all the post-conditions involve both input and output data flows of the corresponding processes?
10. Are all the pre-conditions set as true?