

First Sprint

- Roles: Scrum Master (change every week), Quality controller (One for all, all for one), Team member.
- Project planning (including table with task dependencies, Gantt Chart for Sprint 1).
- Include a burndown chart for the Sprint.
- Perform the following tasks for this Sprint:
 - Identify 15 features (5 basic + 7 chosen from existing system + 3 new proposals which should allow communication with other systems' services or devices).
 - The basic features are: register account, add contact, post a content, get notifications, send message.
 - Build the BPMN model for the System's features.
 - Structure the process specifying a main process.
 - A subprocess for each feature.
 - Perform Requirements elicitation:
 - Elicitation (yes! You have to discover the requirements) of the system requirements should be performed using SysML Requirements Diagram.
 - Functional requirements (related to 15 features above).
 - Non-functional requirements: identification of contributions and conflicts (4 NF requirements).
 - Prototype (front-end and back end): Implement the basic features only, in your preferred programming language / IDE.
 - Proposal
 - For the next Sprint, Besides the 5 basic ones, choose 4 features from the set of 7 chosen from existing systems and 1 from the 3 new ones.
 - Choose 3 Non-Functional requirements.
 - These features and NFRs must be negotiated with me.

Second Sprint

- Corrections of the 1st Part.
- · Architectural design.
 - Context diagram: use a Block Definition Diagram (BDD) linking actors to the system as a black box.
 - Use case view: A Use Case diagram for all the features (5 basic + 4 chosen + 1 new).
 - Logical view: use a Block diagram to show the decomposition of the system for all the features (5 basic + 4 chosen + 1 new), including interface, control and domain objects.
 - **Process View:** Sequence diagrams only for the 4 features chosen + 1 new.
 - Development view: Use BDD to organize the systems into subsystems and internal block diagrams (IBD) for each subsystem showing how the subsystem parts are connected.
 - Deployment view: Use BDD to show the allocation of subsystems blocks to machines and servers blocks. Use IBD to show how the machine blocks are connected.
 - Justify how the NFRs are satisfied and which architectural patterns are used.
- Prototype.
 - Deliver the protype to validate all the system features (5 basic+4 chosen+1 new).
- Variability modelling.
 - Think the MyLinkedIn as a Software Product Line (SPL) by building a feature model to represent the commonalities and variabilities for different configurations. Have as the basis the 15 initial feature from the 1st Sprint and add new features.
 - Configure 2 possible applications.
- Gantt chart updated and a burndown chart for the 2nd Sprint.

Due dates for the practical work:

1st Sprint: 26/10

2nd Sprint: 3/12.

Discussions: 4-5/12

Teams of 5