

Specification for assignment 4

Software engineering

1) Background

One of my jobs is a fulltime shift work at Ineos Beredskap at Rafnes where I work as a firefighter. This application is aimed at digitalization of some paperwork in order to reduce use of paper, simplify the work and increase efficiency. If the application turns out good, I hope to be able to implement it. Working at a fire department a large portion of the work consists of counting equipment and filling a checklist on paper. There are checklists for the equipment on the fire trucks, boats, oil spill response equipment etc.. It can be chaotic for the fire chief to go through all paper checklists from each shift to get updated on deviations. Therefore, it would be practical with an online checklist for all types of checks.

2) User interaction

The goal is for the application to interact with the users in the exact way a paper checklist works. The direct user interaction should be on a laptop but eventually it should be possible to use iPad/tablet. Keep in mind that the users of the application vary in both age and technological understanding and interest. If the application is to be implemented it must be highly user-friendly and easy to use. There will be two interactions. One for the user filling the checklist and one for the supervisor approving it.

3) Data flow

The application should allow the user to select from some premade checklist and easily cross the checkboxes for all equipment. It should be possible for the user to write comments and sign with name. Date and shift (A, B, C or D) should automatically be included. The file should then be saved in an archive. If there are any deviations some notification should be sent to the supervisor. The supervisor then have to approve the checklist as shown in Figure 1 Flow Chart.

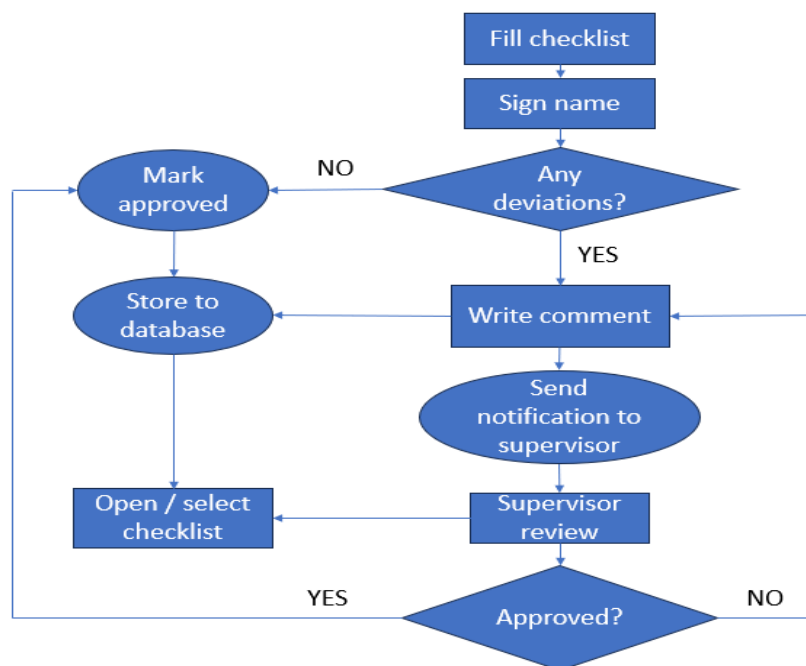


Figure 1 Flow Chart