LI Software Engineering and Professional Practice and Building Usable Software (34257, 34208, 34258, 34210, 34206, 36987)

Kahoot Exercises

October 24, 2022

1 Exercise 1: Functional and Non-functional requirements

Select the right order of the requirements engineering process.

- Feasibility study, Requirement elicitation/analysis, Requirement validation, Requirement specification.

- Requirement validation, Requirement elicitation/analysis, Feasibility study, Requirement specification.

- Requirement elicitation/analysis, Feasibility study, Requirement validation, Requirement specification.

- *Feasibility study, Requirement elicitation/analysis, Requirement specification, Requirement validation.*

Select two Functional Requirements (FR).

- Once the destination is entered, the route should be calculated within 2 seconds.

- *Gmail allows importing emails from another mail exchange server like Yahoo.*

- The system should be able to support 100 users simultaneously.

- *A user's data should be secure and must not be leaked to an outsider.*

Select two Non-Functional Requirements (NFR).

- *Transaction data must be transmitted in encrypted form.* *This requirement can also be considered as a functional requirement.

- The website should follow the cyber guidelines and WWW for accessibility.

- *Number of web pages navigated to access product info should not exceed 2 seconds.*

- The system shall display info that is customized based on the user.

Select the clear and complete Non-Functional Requirement (NFR).

- The website should load fast when the number of users is high.

- The website should load in 3 seconds when the number of users is high.

- *The website should load in 3 seconds when the number of users is > 1000.*

- The website should load fast when the number of users is > 1000.

2 Exercise 2: Use case and Activity diagram

Customers of the garage can buy cars. Customers with bad credit should pay an extra down payment. Which of the following diagrams represent this description?
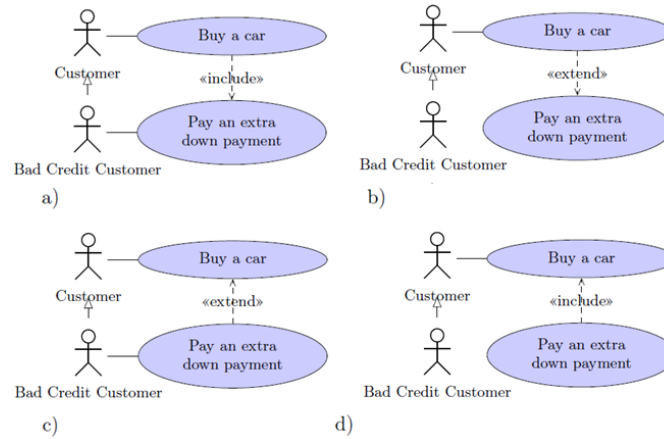

Figure 1:

- Option a
- Option b
- *Option c*
- Option d

Note: *Exclude* allows modelling optional system behaviour and conditions/ alternative/options. *Include* avoids repetitive descriptions and represent common parts of the behaviours of other use cases.

What is the issue in the following Activity diagram of the Library system? (select one option only)
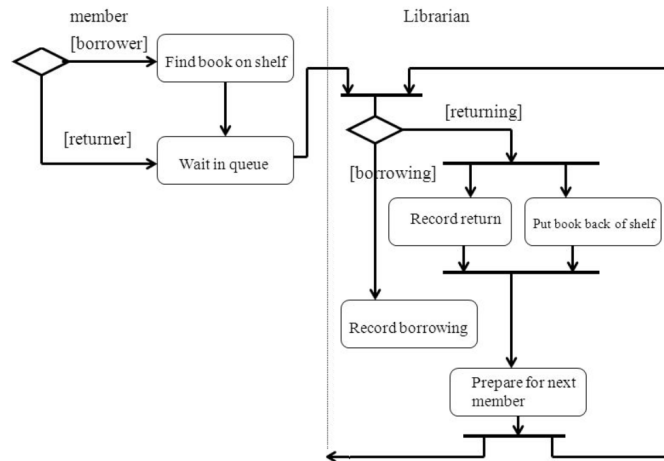

Figure 2: Activity diagram of the Library system.

- Swimlanes
- Forks
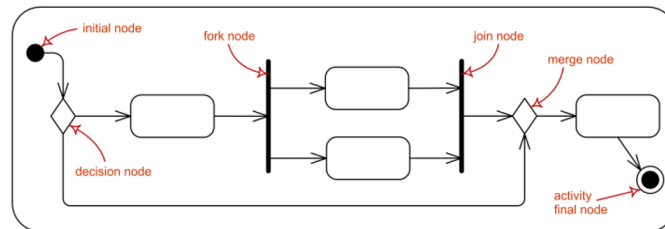- *Start and end nodes*
- Joins

Note: The components of the activity diagram are as follows.

Figure 3: Activity diagram.