QB5Solution

A [ 4 points]True/False

[A1] The Static Context Diagram is a UML diagram. (F)

[A2] The System Sequence Diagram is a UML diagram. (F)

[A3] A use case can be described using an activity diagram. (T)

[A4] UML specifies no way to describe a use case. (T)

[B, 2 points ] Multiple Choice:

[B1] Execution of an “included” use case is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (a) mandatory

(a) mandatory (b) optional

[B2] Execution of an “extending” use case is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (b) optional

(a) mandatory (b) optional

[C, 6 points ] Fill-in:

[C1] A use case description has three kinds of “flows” : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(main, alternative, error)

[C2] Use cases for the ATM case study were grouped according to the primary \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(actor)

[C3] The UML \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ diagram was used to group use cases for the ATM case study.

(package)

[C4] The three main UML diagrams used in the Functional View of the ATM system are: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(use case, activity, package)

[C5] The three primary actors for the ATM case study were: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(bank customer, visa card holder, maintenance operator)

[C6] The two secondary actors for the ATM case study were: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(bank Information system, visa authorization system)

[D, 2 points] Short answer

[D1] State at least two non-functional requirements for the ATM case study.

The ATM must be operational 99.9 % of the time

The ATM must deliver cash within 5 seconds.