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Workgroup and Workflow Management Systems-Written Test of Sep. 26th, 2012

Family name _____ First name _____ Politecnico ID # _____

Master Course in _____

Please, fill in this sheet carefully. All answers must be provided on this sheet, which must be returned at the end of the test. No additional sheet will be considered¹.

Rules. The examination is passed if the student obtains at least 13 points out of a total of 25 points available for this test, and the grand total of obtained points, including those obtained with a presentation or a project, is greater than or equal to 18. Use of books, handbooks, lecture notes is not permitted: only the sheets provided by the teacher can be used. All the questions must be answered, at least partially: tests in which even one question has not been answered will not be evaluated. Duration of the test: 2 hours.

Exercises

(1) Describe the differences between workflow *control* data, workflow *application* data, and workflow *relevant* data according to the Workflow Management Coalition.

space reserved to your answer

¹**Remark.** Complete specifications whenever needed. Clarity and order will be taken into account for the evaluation.

(2) The TaBiblia library is going to develop a support system for its business. TaBiblia loans books and magazines to borrowers, who are previously registered in the system.

Borrowers can make on-line reservations and check-out their currently borrowed items. The maximal duration of a loan is 30 days for books and 10 days for magazines: loan renewals are allowed only if the loan duration has not expired yet.

When the requested book is not available, the borrower can make a reservation, eventually joining the queue of requesters for that book: TaBiblia will send him/her a message when the book is available again. In this case the system will guarantee that the current borrower of the reserved book or magazine does not renew it. The librarian of TaBiblia checks conditions of books and magazines from time to time (i.e., when the book or the magazine is checked-out), in order to preserve their good quality: if they do not respect the minimal criteria of quality any longer, they are removed from the shelves.

Provide a reasonable schema of the outlined process(es), according to the modeling formalisms of WIDE. Please, suitably model all the *pre-conditions* and *post-conditions* of every task.

(3) With respect to the process described in Exercise 2, provide an example of an exception that, in case of a late check-out, temporarily suspends that borrower from the loan.

space reserved to your answer - exercise 3

space reserved to your answer - exercise 2

(4) Describe the five interfaces of a Workflow Management System, according to the Workflow Management Coalition reference model.

space reserved to your answer

This part for use by the teacher, only.

Ex. 1	Ex. 2	Ex. 3	Ex. 4	Total
4	12	5	4	25
