



Politecnico di Milano

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Workgroup and Workflow Management Systems-Written Test of Jan. 30th, 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 some reasonable criteria to measure the *size* and the *complexity* of a control flow model of a business process.

space reserved to your answer

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

(2) Due to the increasing number of travel requests at Politecnico di Milano, a suitable online system was created.

Using their personal area, professors and researches may create a new travel request. Information details about the travel, motivation, and project funding are mandatory fields. The request is then sent to the department responsible, who may authorize it or not. If rejected, the requester is notified and the process ends. Otherwise, the request is marked as “authorized” and the project funding responsible is informed about it.

The requester can attend the trip. When the requester is back, all receipts (copies and original) must be presented and validated by the Politecnico’s travel manager. If something is wrong, the requester is asked to fix it. When everything is fine, the finance department is informed and the requester is reimbursed. The request is therefore marked as “defrayed” and the process ends.

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 a reasonable exception that cancels the request that has already been approved if the requester changes his/her mind.

space reserved to your answer - exercise 3

space reserved to your answer - exercise 2

(4) Describe the main advantages achievable by using a repository of workflow patterns.

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
