Interactive Graduate Student Information Database

Midterm Report

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Abstract

Requirements for SIMS.

1 Specific requirements

1.1 External interface requirements

1.1.1 User interfaces

1.1.2 Hardware interfaces

1.1.3 Software interfaces

1.1.4 Communications interfaces

1.2 System features

1.2.1 Graphical User Interface

1. purpose: provide a dossier format interface for users to see all relevant data of the student.
2. response sequence: user will login, and be able to search a student or go through a table of all available users. selecting a student will bring the user onto this interface.
3. associated functional requirements:
   (a) drill down: functional requirement 1
      i. sections: each student will have multiple sections that can be disabled or enabled.
      ii. expansion: sections will expand to show summary of addition information.
      iii. link: sections will link to sections pages for more detailed information.

1.2.2 Term Calculations

1. purpose: Calculate dates and event times for graduate student programs
2. response sequence: When a student profile and program is created the system will make triggers for relevant events to each milestone
3. associated functional requirements:
   (a) Milestones: functional requirement 1
      i. Calculate ending Semesters for Graduate Students
      ii. Calculate due dates and triggers for milestones
   (b) Funding Calculations: functional requirement 2
      i. Track funding availibility for each semester
      ii. Show next date for major funding applications

1.2.3 Tracking

1. purpose: Track Major Milestones (grants, publications, exams etc) for graduate students through the program.
2. response sequence: Data is update according to business rules and workflow of the program and the student's progress.
3. associated functional requirements:
   (a) Publications and Grants: functional requirement 1
      i. Track student publications that have been published
      ii. Track grants that have been recieved by the student
   (b) Advisory Committee Members: functional requirement 2
      i. Send trigger to student to form an Advisory Committee
      ii. Allow students, and advisory committees to store and track comments and discussions
      iii. Show calendar view of all meetings and results of the meetings
      iv. Allow for single, coperative, or joint supervisors
      v. Track electronic submissions of advisory meeting form
   (c) Manage Milestones: functional requirement 3
      i. handle and process milestones for the Masters program in BioMedical Physics at UWO
         A. Form advisory committee by end of 1st term
         B. Annual seminars
         C. Low-level exams for new students
         D. Organized by department
         E. Exam usually in late June; informed in early May

F. Possible MSc to PhD reclassification

G. Discuss with supervisor and advisory committee first

H. Reclassification must be completed before end of 5th semester

I. Submit and defend MSc thesis if not reclassified

J. http://www.uwo.ca/biophysics/grad_program_policies/guidelines_intro.htm

ii. Send Triggers and Recieve Responses: functional requirement 4

A. Process conditional and requested triggers

B. Allow Faculty Advisor to create and view all triggers

C. Conditional triggers are event based automatic or triggered conditions

D. Requested Triggers are created by users and their activities on the system

E. The system should allow responses to each Triggers be collected and stored

F. Responses should be accessible by relevant users only

1.3 Performance requirements

1.4 Design constraints

1.5 Software system attributes

1.6 Other requirement

References

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