



Assignment No. 02
Semester: Fall 2012
CS504: Software Engineering-I

Total Marks: 20
Due Date: 19/11/2012

Instructions

Please read the following instructions carefully before assignment submission.

It should be clear that your assignment will not get any credit if:

- The assignment is submitted after due date.
- The submitted assignment does not open or file is corrupt.
- All types of plagiarism are strictly prohibited.

Objective

The objective of this assignment is:

- To assess your overall understanding of Software Engineering concepts
- To increase your level of understanding about use-case model and how to map requirements to use-case diagram
- To help you understand how to develop context diagram

Note:

The assignment should be in .doc format. Assignment in any format other than MS Word format will not be accepted. Assignment submitted through email will not be accepted.

Assignment: This assignment is covering Software Requirements Engineering Lectures 6-11. Recall the lectures delivered for Software Requirements engineering, reconsider the provided description and solve your assignment.

Assignment

Project Description:

Existing budgeting system of an XYZ university is mostly based on paper work. To get rid of file work, university wants to change its budget control system to a web based application. Purpose of this web based online budgeting control application is to provide an electronic environment for fast processing of university budget related tasks.

With online budgeting control system, management will be able to add more departments and even more sections within the departments. Concerned people of different departments will be able to check that how much budget is consumed in different sections like stationary section, furniture section etc. Developed system will show which section is underflow and which is overflow in terms of finance. This software will also track that how much indent (expense) requests are in a pipe line and how much estimated cost is required for these.

Online budgeting control system will have a user-friendly interface. It will fulfill all the user and business requirements of the Budget Allocation & Control staff. It will also provide required documents (reports etc) efficiently, provide the information to management and will help them in decision making.

The OBCS consist of following modules:

1. Budget Submission/Allocation Module

This module will be responsible for gathering annual budget requests from all the departments and finalizing the budget. It will be used by the head of different departments to request for the budget allocation.

2. Indent Processing Module

This module will be responsible for the processing the indent requests raised by different department during a financial year. After finalizing the annual budget, the department will

request through the indent form for purchasing any item. Each request will be automatically forwarded towards the budget control manager of financial department.

3. Budget Control Module

Using this module, the user will be able to control the budget which is allocated and finalized between all departments. It will be controlled by financial department to process indent requests. Budget control manager of financial department will accept or reject the requests from any department for some valid reason.

4. Administrative Module

This module is for system administrator only. This module will allow the administrator to administer the different aspects of the system such as maintaining the record of users and departments, database backup etc.

Considering the above description,

Question 1) You are required to draw a use-case diagram for online budgeting control system.

(Hint: Keep in mind the modules of online budgeting control system and assignment 1 solution.)

Question 2) You are required to draw context diagram (level-0).

(Hint: Keep in mind that context diagram defines the system boundaries.)

GOOD LUCK!