SUB: SOFTWARE ENGINEERING LAB

Course Objectives:

•To understand the software engineering methodologies involved in the phases for project development.

•To gain knowledge about open source tools used for implementing software engineering methods.

•To exercise developing product-start-ups implementing software engineering methods.

•Open source Tools: StarUML / UMLGraph / Topcased

List of Sample Experiments:

1. Course management system (CMS)

A course management system (CMS) is a collection of software tools providing an online environment for course interactions. A CMS typically includes a variety of online tools and environments, such as:

•An area for faculty posting of class materials such as course syllabus and handouts

•An area for student posting of papers and other assignments

•A grade book where faculty can record grades and each student can view his or her grades

•An integrated email tool allowing participants to send announcement email messages to the entire class or to a subset of the entire class

•A chat tool allowing synchronous communication among class participants

•A threaded discussion board allowing asynchronous communication among participants.

2. Easy Leave

This project is aimed at developing a web based Leave Management Tool, which is of importance to either an organization or a college.

The Easy Leave is an Intranet based application that can be accessed throughout the Organization or a specified group/Dept. This system can be used to automate the workflow of leave applications and their approvals. The periodic crediting of leave is also automated.

There are features like notifications, cancellation of leave, automatic approval of leave, report generators etc in this Tool.

3.E-Bidding

Auctions are among the latest economic institutions in place. They have been used since antiquity to sell a wide variety of goods, and their basic form has remained unchanged. In this dissertation, we explore the efficiency of common auctions when values are interdependent-the value to a particular bidder may depend on information available only to others-and asymmetric. In this setting, it is well known that sealed-bid auctions do not achieve efficient allocations in general since they do not allow the information held by different bidders to be shared.

Proposed system

To generate the quick reports

To make accuracy and efficient calculations

To provide proper information briefly

To provide data security

To provide huge maintenance of records

Flexibility of transactions can be completed in time

4. Electronic Cash counter

This project is mainly developed for the Account Division of a Banking sector to provide better interface of the entire banking transactions. This system is aimed to give a better out look to the user interfaces and to implement all the banking transactions like:

•Supply of Account Information

•New Account Creations

•Deposits

•Withdraws

•Cheque book issues

•Stop payments

Proposed System:

The development of the new system contains the following activities, which try to automate the entire process keeping in view of the database integration approach.

•User friendliness is provided in the application with various controls.

•The system makes the overall project management much easier and flexible.

•Readily upload the latest updates, allows user to download the alerts by clicking the URL.