

Enterprise Computing II

Final Project

Given: 11/02/2010

Due: 19/04/2010

Objective:

Students are to develop E-Commerce Financial System based on Multi-tier Architecture .NET platform, which provides telephone bill payments for the LIME Company by customers using the Internet.

Method of development:

This is a group project. Number of students for each project cannot be more than 5. Within each group there has to be assigned one leader, who is responsible for development of the project and the coordination between all parts of the project developed by other students.

Scenario:

Suppose you are a customer of LIME and you have saving/checking account with Scotia Bank. LIME has an account with the National Commercial Bank (NCB). Customers have to pay their bill for telephone services provided by LIME. The telephone bill produced by LIME is usually for a one-month period. The application, which is to be developed, must provide bill payment functionality from any workstation connected to the Internet.

Requirements:

1. The Telephone Bill (from LIME) must have the following information about the customer and their payment:
 - Due date of payment
 - Statement Date
 - Customer ID and Name
 - Total Amount Due (Jamaican dollars)
2. Scotia Bank (customer's bank) must have information about:
 - Customer ID
 - Customer name
 - Customer Address
 - Account Balance
 - Account Type (checking or savings)
 - Banking transactions (Date & Time)
 - Type of banking transaction (Debit or Credit)
3. National Commercial Bank (NCB – LIME's bank) has to have an information about:
 - Customer ID
 - Customer Name
 - Customer Address
 - Saving account's balance

- Banking transactions (Date & Time)
- Type of banking transaction

Process of development and tools:

Students are to develop the system using following programming languages, tools and technologies:

#	Project components	Marks
Database design and database programming		
1	Database/databases design (using SQL-Server 2005)	5
2	Stored procedures	5
3	Views	3
4	Using a configuration file to store connection information to the database	2
ASP.NET programming		
5	Classes development	7
6	Using Profile	8
7	Using MultiView controls	8
8	Sending an e-mail by application	7
9	Using custom error handling	8
10	Using web parts to build portals	8
11	User Controls development	8
12	Web Service development	8
13	Custom Server Controls development (total 10):	
	- simple rendered controls	2
	- superclassed controls	4
	- composite controls	4
Security of the Web application (use a form-based authentication and cookies)		
14	Web Site Administration Tool: managing Users/Roles/Access rules.	3
	Using Login (1 mark), LoginStatus (1), LoginName (1), CreateUserWizard (2), PasswordRecovery (2), ChangePassword (2), and LoginView (1) security controls	total: 10
	Total:	100
15	Prize: Original solution or using new (beyond of the course) technology (additional marks)	20

Notice:

- **Each group must submit the project to the Enterprise Computing lecturer (not to Students' affairs unit or to the secretaries!) on a CD-ROM (write IDs and names of the students on the CD-ROM) by the due date as stated above.** If the project is submitted to lecturer after the due day (19/04/2010) the evaluation interview will still be conducted, but a penalty is attracted for every late day. **Each day after due day (including Saturdays and Sundays) will attract a 3% accumulative penalty which will be deducted from the total mark of project.**
- Each CD-ROM must have an instruction manual (*read.me* file, all usernames and passwords for Login procedure) on how to launch the application.
- Presentation of the final project will be based on “face to face” discussion individually with each member of group.
- Timetable of presentation will be issued at least one week before presentation. If you miss your presentation time (that includes being late, not at a time assigned for your group or did not come at all), you need to write a report to the Head of School of Computing & Information Technology (SCIT) explaining your reasons – the next available interview time will be assigned through Head of SCIT and Programme Director, not by the lecturer.
- If a student provides a solution and is not able to explain programming code – 80 marks will be taken from project's item marks.
- It is possible (and is recommended) that each developer should be responsible for a section of project. However, developers must be familiar with other parts of project in great detail.
- It is not acceptable for a student to know only their part of project but has no knowledge about other parts or how their part integrates with the application.