COM Interoperability

Sr. No.	Assignment Question

1.	50Dollars is one of the best known fast food chains in the United States. It was founded in 1949 and runs successfully in 34 states. The company also has departmental stores and a gas station adjacent to every restaurant.
	
	In recent years, as the company was focusing on its multifaceted growth, it failed to concentrate on its back office operations. Therefore, the Director of Business Systems, Mr. Daniel Mathews, and his team have decided to upgrade the back office applications for better, faster and greater information exchange. The primary explanation that was given is that the older machines and operating systems were difficult to adjust with the new technologies.
	
	Since the task of updating all the computers placed in remote locations will take years to complete, the decision to upgrade the software overnight was taken. The entire application was completed using Visual Basic 6.0. As the member of the business systems in 50Dollars, you will need to move the current application into a modern and robust Visual C# application. The original Visual Basic application has actions to:
	   1. Display the menu
	   2. Record the transactions and display the final amount that a customer should pay.
	
	The application that has to be developed in Visual C# should perform the following:
	   1. User Authorization
	   2. Payroll
	
	After both the applications have been developed in VB and Visual Studio 2005 integrated development environments (IDEs) respectively, you will need to connect them using the concepts of COM. You will write code to call the Visual Basic application from Visual C#.

2.	Region Pension and Health Plans is an organization that administers the healthcare coverage of many people. It recently replaced its manual paper-based processing systems into a computerized application in Visual C#. This conversion took almost five years and millions of dollars were invested. After few months, the organization now finds that they are unable to handle insurance plans made by students. Since undergoing the same process again might result in huge investments, the management of Region Pension and Health Plans have decided to make use of an unmanaged and much easier technology- Visual Basic 6.0 and increase the efficiency of the entire application.
	
	Therefore, as a person responsible for this upgradation, you will develop a C# application which performs the following:
	  Ø A menu which displays the types of insurances. Some of the examples include
	     o Health Insurance
	     o Short-Term Insurance
	     o Health Savings Account
	     o Dental Insurance

> Ø Every option of the insurance should include Gender, Date of Birth, spouse name and so forth.
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> In Visual Basic, include another option especially for students. This includes fields for Permanent address, Name and Address of the School, Payment Options, Gender, Date of Birth, and Full-Time College Student.
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> Now, connect these two applications, by calling the managed code (Visual C# components) in Visual Basic.