.NET Week 7 Coding Challenge - Programming Assessment.

Date: 23-10-2023   Duration: 5 Hours.

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Complete all the following problem statements

1. Create a web application user interface with HTML, CSS, javaScript , bootstrap & JQuery technology stack. This app should display different categories of toys for children. At least 3 categories of toys should be there and each category consists of a list of toys.

    When the user clicks on a specific category that category list must be displayed. When you click on a particular toy then it must display all the details of the toy - title, price, description, category etc,.

    Your app should consist of a home page, a Toys page, and a contact us page. Use Visual Studio code IDE for the development of the application.

2. Create a C#.Net Console application to implement multiple inheritance with multiple interfaces. Define a BankAccount class which implements ISavingsAccount, ICurrentAccount, IGoldLoanAccount interfaces. Each interface has a specific method signature to calculate Interest.
    Implement all Interface methods in the BankAccount class.Create user interface in the program class main(). Define a menu to calculate interest of a specific account type and display the same.

3. Define a schema for a Airlines Travel Agency in the SQL server. Schema is to store data about flight schedules, reservations, and customer data. Define relevant columns for each table and make relationships amongst tables.

    Create an ASP.NET Core web application to implement the above schema with Entity Framework Core database first approach. You are able to add, modify, remove flight schedules for different starting locations and destination locations with their fare price and flight numbers. Able to add , modify and delete customer information. Able to book (reserve) tickets and cancel (delete) tickets for customers for specific flight schedules.

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