DAY 5 : UML
Design Patterns
Assignment
By Vihar D.

Project 1

Amazon Structure and UML Pattern

Code :

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace AMAZON_UML
{
   internal class Program
   {
      static void Main(string[] args)
      {
         Console.WriteLine("This is an AMAZON Application");
         Console.ReadLine();
      }

      //-------DATA REGARDING CUSTOMERS--------
      class CUSTOMER_DATA
      {
         private string cust_name;
         private string cust_email;
         private string cust_pwd;
         private string cust_subtype;
         private string cust_bill_add, cust_ship_add;
         private int cust_phoneno;
```

```
    public void CreateCustData()
    {
        // ToDo
    }
    public void UpdateCustData()
    {
        // Todo
    }
    public void DeleteCustData()
    {
        // ToDo
    }
    public void DisplayCustData()
    {
        // ToDo
    }
    public void SubscriptionData()
    {
        // ToDo
    }
}

//-------DATA REGARDING EMPLOYEES--------
class EMPLOYEE_DATA
{
    private string emp_id;
    private string emp_name;
    private string emp_benefits;
    private int emp_bonds;
    private int emp_sal;

    public void CreateEmpData()
    {
        // Todo
    }
    public void UpdateEmpData()
    {
        // Todo
    }
    public void DeleteEmpData()
    {
        // ToDo
```

```
    }
    public void DisplayEmpData()
    {
        // ToDo
    }
    public void EmpActivityData()
    {
        // ToDo
    }
}

//-------DATA REGARDING SELLERS--------
class SELLER_DATA
{
    private string sell_id;
    private string sell_brand;
    private string sell_address;
    private string sell_rating;
    private int sell_orders;
    private int sell_transaction;

    public void CreateSellData()
    {
        // Todo
    }
    public void UpdateSellData()
    {
        // Todo
    }
    public void DeleteSellData()
    {
        // ToDo
    }
    public void DisplaySellData()
    {
        // ToDo
    }
    public void SellProductData()
    {
        // ToDo
    }
}
```

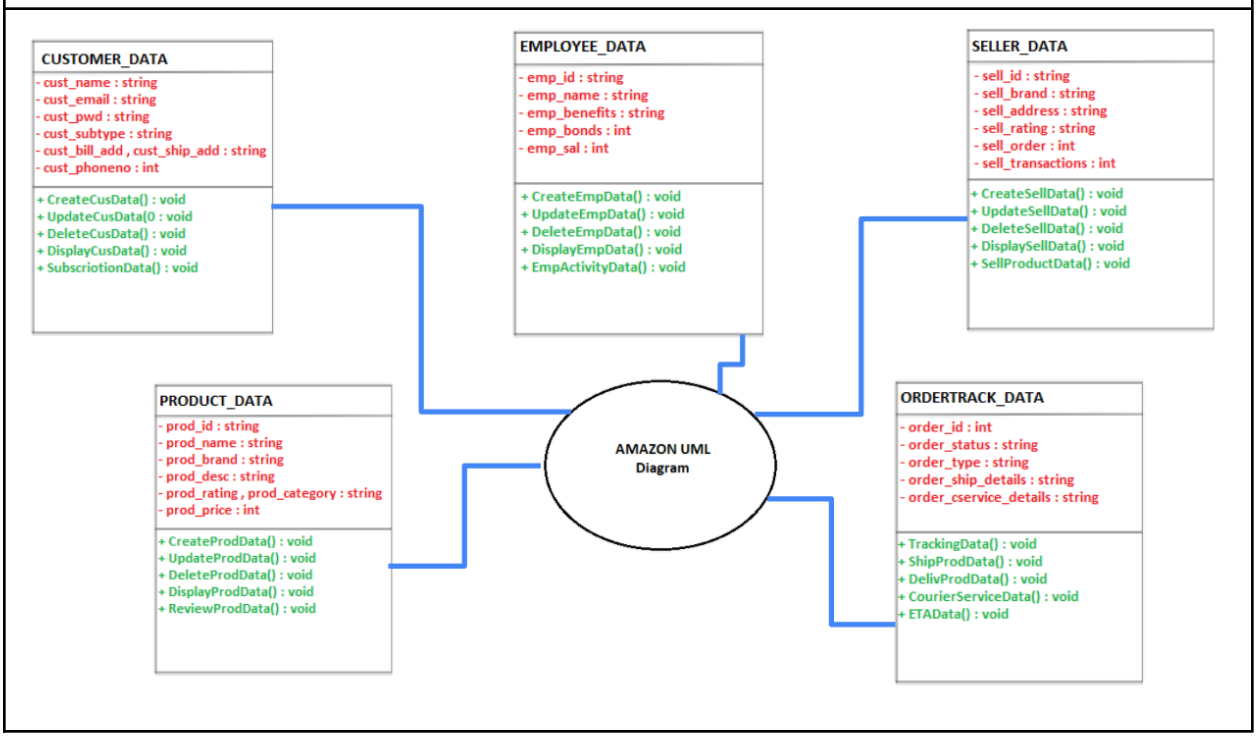
```
//-------DATA REGARDING PRODUCTS--------
class PRODUCT_DATA
{
    private string prod_id;
    private string prod_name;
    private string prod_brand;
    private string prod_desc;
    private string prod_category;
    private string prod_rating;
    private int prod_price;

    public void CreateProdData()
    {
        // ToDo
    }
    public void UpdateProdData()
    {
        // Todo
    }
    public void DeleteProdData()
    {
        // ToDo
    }
    public void DisplayProdData()
    {
        // ToDo
    }
    public void ReviewProdData()
    {
        // ToDo
    }
}



//-------DATA REGARDING ORDERS--------
class ORDERTRACK_DATA
{
    private int order_id;
    private string order_status;
    private string order_type;
    private string Order_ship_details;
```

```
        private string order_cservice_details;
        public void TrackingData()
        {
            // ToDo
        }
        public void ShipProdData()
        {
            // ToDo
        }
        public void DelivProdData()
        {
            // ToDo
        }
        public void CourierServiceData()
        {
            // ToDo
        }
        public void ETAData()
        {
            // ToDo
        }
    }
  }
}
```



Project 2

Yashoda Hospitals Structure and UML Pattern

Code :

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace YASHODA_UML
{
   internal class Program
   {
      static void Main(string[] args)
      {
         Console.WriteLine("This is a YASHODA HOSPITALS  Application");
         Console.ReadLine();


      }

      //-------DATA REGARDING DOCTORS--------
      class DOCTOR_DATA
      {
         private string doc_name;
         private string doc_email;
         private string doc_designationl;
         private int doc_count;
         private int doc_exp;

         public void CreateDocData()
         {
            // ToDo
         }
         public void UpdateDocData()
         {
            // Todo
         }
```

```
    public void DeleteDocData()
    {
        // ToDo
    }
    public void DisplayDocData()
    {
        // ToDo
    }
    public void ReferredPatData()
    {
        // ToDo
    }
}

//-------DATA REGARDING STAFF--------
class STAFF_DATA
{
    private string staff_name;
    private string staff_address;
    private string staff_exp;
    private int staff_countl;
    private int staff_sal;
    private int staff_age;

    public void CreateStaffData()
    {
        // Todo
    }
    public void UpdateStaffData()
    {
        // Todo
    }
    public void DeleteStaffData()
    {
        // ToDo
    }
    public void DisplayStaffData()
    {
        // ToDo
    }
    public void StaffRosterData()
    {
```

```
        // ToDo
    }
}

//-------DATA REGARDING PATIENTS--------
class PATIENT_DATA
{
    private string pat_name;
    private string pat_condition;
    private string pat_ref_docname;
    private string pat_prescription;
    private int pat_age;
    private int pat_bill;
    public void CreatePatData()
    {
        // Todo
    }
    public void UpdatePatData()
    {
        // Todo
    }
    public void DeletePatData()
    {
        // ToDo
    }
    public void DisplayPatData()
    {
        // ToDo
    }
    public void PrescriptionData()
    {
        // ToDo
    }
}

//-------DATA REGARDING PHARMACY--------
class PHARMACY_DATA
{
    private string pharm_staff;
    private string pharm_brand;
    private string pharm_supplier;
    private string pharm_stock_detail;
```

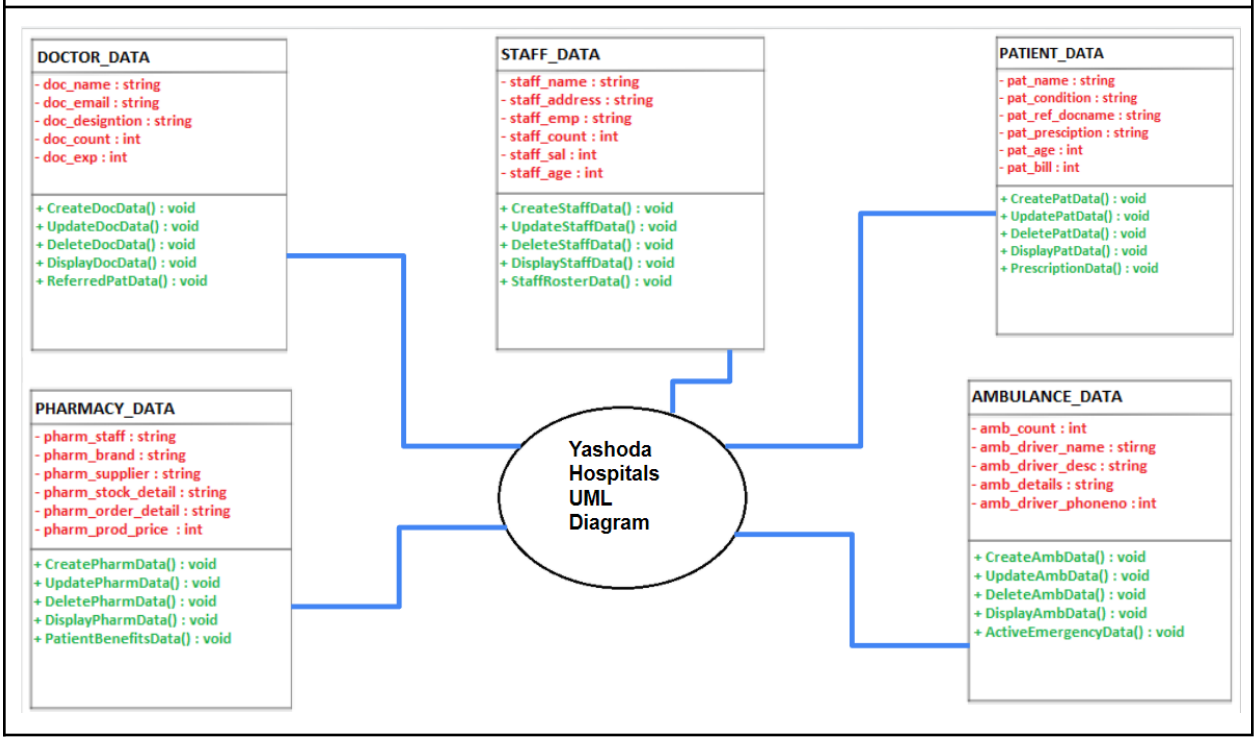
```
    private string pharm_order_dets;
    private int pharm_prod_price;
    private int pharm_income;

    public void CreatePharmData()
    {
        // ToDo
    }
    public void UpdatePharmData()
    {
        // Todo
    }
    public void DeletePharmData()
    {
        // ToDo
    }
    public void DisplayPharmData()
    {
        // ToDo
    }
    public void PatientBenefitsData()
    {
        // ToDo
    }
}

//------DATA REGARDING AMBULANCES--------
class AMBULANCE_DATA
{
    private int amb_count;
    private string amb_driver_name;
    private string amb_details;
    private string amb_driver_desc;
    private int amb_driver_phoneno;

    public void CreateAmbData()
    {
        // ToDo
    }
    public void UpdateAmbData()
    {
        // ToDo
```

```
        }
        public void DeleteAmbData()
        {
            // ToDo
        }
        public void DisplayAmbData()
        {
            // ToDo
        }
        public void ActiveEmergencyData()
        {
            // ToDo
        }
    }
  }
}
```



Project 3

Hyderabad Police Stations Structure and UML Pattern

Code :

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace HYD_PS_UML
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("This is a Hyderabad Police Stations Application");
            Console.ReadLine();


        }

        //-------DATA REGARDING POLICE--------
        class POLICE_DATA
        {
            private string police_id;
            private string police_name;
            private string police_rank;
            private int police_age;
            private int police_phoneno;
            private int police_sal;

            public void CreatePolData()
            {
                // ToDo
            }
            public void UpdatePolData()
            {
                // Todo
            }
            public void DeletePolData()
```

```
    {
        // ToDo
    }
    public void DisplayPolData()
    {
        // ToDo
    }
    public void PoliceRosterData()
    {
        // ToDo
    }
}

//-------DATA REGARDING WEAPONS--------
class WEAPON_DATA
{
    private string weapon_name;
    private string weapon_owner;
    private string weapon_type;
    private int weapon_bullet_count;
    private int weapon_weightl;

    public void CreateWpnData()
    {
        // Todo
    }
    public void UpdateWpnData()
    {
        // Todo
    }
    public void DeleteWpnData()
    {
        // ToDo
    }
    public void DisplayWpnData()
    {
        // ToDo
    }
    public void DefectiveWpnData()
    {
        // ToDo
    }
```

```
}

//-------DATA REGARDING CRIMINALS--------
class CRIMINAL_DATA
{
    private string crim_name;
    private string crim_desc;
    private string crim_crime;
    private int crim_total_cases;
    private int crim_phoneno;
    private int crim_age;
    private int crim_alert;

    public void CreateCrimData()
    {
        // ToDo
    }
    public void UpdateCrimData()
    {
        // Todo
    }
    public void DeleteCrimData()
    {
        // ToDo
    }
    public void DisplayCrimData()
    {
        // ToDo
    }
    public void CrimeProfileData()
    {
        // ToDo
    }
}

//-------DATA REGARDING CASES--------
class CASES_DATA
{
    private string case_name;
    private string case_desc;
    private string case_status;
    private int case_pending;
```

```
    private int case_total_count;

    public void CreateCaseData()
    {
        // Todo
    }
    public void UpdateCaseData()
    {
        // Todo
    }
    public void DeleteCaseData()
    {
        // ToDo
    }
    public void DisplayCaseData()
    {
        // ToDo
    }
    public void CaseStatusData()
    {
        // ToDo
    }
}

//-------DATA REGARDING DISPATCH--------
class DISPATCH_DATA
{
    private int disp_count;
    private string disp_name;
    private string disp_details;
    private string disp_desc;
    private int disp_phoneno;

    public void CreateDispData()
    {
        // ToDo
    }
    public void UpdateDispData()
    {
        // ToDo
    }
    public void DeleteDispData()
```

```
        {
            // ToDo
        }
        public void DisplayDispData()
        {
            // ToDo
        }
        public void ActiveAlertData()
        {
            // ToDo
        }
    }
  }
}
```