**Inventory Management – Case study**

Team C – Classes Document

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Class 1: Supplier

**Fields:**

|  |  |  |
| --- | --- | --- |
| **#** | **Field** | **Description** |
| 1 | private int \_supplierID | Primary key (unique) ID of supplier. |
| 2 | private string \_supplierName | Name of the supplier |
| 3 | private string \_supplierAddress | Address of the supplier |
| 4 | Private string \_supplieremailID | Email of the Supplier |
| 5 | Private string \_supplierPhone | Phone of the Supplier |
| 6 | Private int \_rawQuantity | Quantity of requested raw materials |
| 7 | Private int \_rawPrice | Price per unit of the raw material |
| 8 | Private double Payments | Payment Received by Supplier |

**Properties:**

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| --- | --- | --- |
| **#** | **Property** | **Validations** |
| 1 | public int SupplierID | Unique; not null; System-generated (starts with 1, increment by 1) |
| 2 | public string SupplierName | Name of the employee.  Alpha-numeric; not null.  Should be less than 40 characters. |
| 3 | public string SupplierAddress | Unique; Not null.  Should between 4 to 10 characters.  Alpha-numeric. |
| 4 | Public string SupplierEmailID | Unique; Not null.  Should Be a valid email ID  Alpha Numeric |
| 5 | Public string SupplierPhone | Unique; Not null.  Should be 10 Characters  Numeric |
| 6 | Public int RawQuantity | Not Null  Numeric |
| 7 | Public int RawPrice | Not Null  Numeric |
| 8 | Private double Payments | Numeric |

**Methods:**

|  |  |  |
| --- | --- | --- |
| **#** | **Method** | **Description** |
| 1 | Public void TrackingDetails(int OrderID, DateTime DoOrder, DateTime DoDispatch, DateTime DoArrival ) | Use for tracking of raw material consignment |
| 2 | public bool PaymentUpdate(double amount) | Update Supplier payments with amount received |
| 3 | Public RecordConsDetails(string consID, int RawQuantity, int RawPrice ) | Record the Details of the Consignment |