**DB DESIGN:**

Login Table

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No: | Field ID | Data Type | Constraints |
| 1 | login\_Id | Numeric | pk |
| 2 | Username | Varchar | Not Null |
| 3 | Password | Varchar | Not Null |
| 4 | User Type | Varchar | 1. Admin 2. Purchase Manager |

User Table

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No: | Field ID | Data Type | Constraints |
| 1 | user\_Id | Numeric | pk |
| 2 | First Name | Varchar | Not Null |
| 3 | Last Name | Varchar | Not Null |
| 4 | Age | Integer | Not Null |
| 5 | Gender | Varchar | Not Null |
| 6 | Address | Varchar | Not Null |
| 7 | Phone Number | Numeric | Not Null |
| 8 | login\_Id | Numeric | Foreign Key |

Asset Type Table

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No: | Field ID | Data Type | Constraints |
| 1 | at\_id | Numeric | pk |
| 2 | at\_name | Varchar | Not Null |

Asset Definition Table

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No: | Field ID | Data Type | Constraints |
| 1 | ad\_Id | Numeric | pk |
| 2 | ad\_Name | varchar | Not Null |
| 3 | ad\_TypeId | Numeric | fk |
| 4 | ad\_Class | Varchar | Not Null |

Vendor Table

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No: | Field ID | Data Type | Constraints |
| 1 | vd\_Id | Numeric | pk |
| 2 | vd\_Name | Varchar | Not Null |
| 3 | vd\_Type | Varchar | Foreign key(at\_Id) |
| 4 | vd\_Atype\_Id | Numeric | Not Null |
| 5 | vd\_from | Date | Not Null |
| 6 | vd\_To | Date | Not Null |
| 7 | vd\_Add | Varchar | Not Null |

Purchase Order Table

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No: | Field ID | Data Type | Constraints |
| 1 | pd\_Id | Numeric | pk |
| 2 | pd\_Order\_No | Varchar | Not Null |
| 3 | pd\_Ad\_Id | Numeric | Foreign Key(ad\_ID from asset definition table) |
| 4 | pd\_Type\_Id | Numeric | Foreign Key(at\_ID from asset type table) |
| 5 | pd\_Qty | Numeric | Not Null |
| 6 | pd\_Vendor\_Id | Numeric | Foreign Key(vd\_ID from Vendor table) |
| 7 | pd\_Date | Date | Not Null |
| 8 | pd\_Status | Varchar | Not Null |

Assert Master Table

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No: | Field ID | Data Type | Constraints |
| 1 | am\_Id | Numeric | pk |
| 2 | am\_Atype\_Id | Varchar | FK(at\_Id from asset type table) |
| 3 | am\_Make\_Id | Numeric | FK(vd\_Id from Vendor table) |
| 4 | am\_Ad\_Id | Numeric | FK(ad\_Id from asset definition table) |
| 5 | am\_Model | Varchar | Not Null |
| 6 | am\_Snumber | Varchar | Not Null |
| 7 | am\_Myyear | Varchar | Not Null |
| 8 | am\_Pdate | Date | Not Null |
| 9 | am\_Warranty | Varchar | Not Null |
| 10 | am\_From | Date | Not Null |
| 11 | am\_To | Date | Not Null |

**API DESIGN**

1. Login Login as Admin / Product Manager using userName and Password and see the respective landing page:

|  |  |  |
| --- | --- | --- |
| **Method** | **API** | **Description** |
| POST | /api/login | Login page |
| GET | /api/admin | Admin’s landing page |
| GET | /api/manager | Product Manager’s landing page |

1. Manager

|  |  |  |
| --- | --- | --- |
| **Method** | **API** | **Description** |
| GET | /api/manager/products | Manager can see different products |
| POST | /api/manager/products/add | Manager can add new products |
| PUT | /api/manager/products/{id} | Manager can update products by id |

1. Admin

|  |  |  |
| --- | --- | --- |
| **Method** | **API** | **Description** |
| GET | /api/admin/vendors | Admin can view all vendors |
| POST | /api/admin/vendors/add | Admin can add new vendor |
| PUT | /api/admin/vendor/{id} | Admin can update vendor by id |