**CHAPTER 4: DATBASE SPECIFICATIONS:-**

4.1) Entity Relationship Diagram (ERD)

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order short

admin

customer

1 M

product

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4.2) Database Design (Normalized Database):

1. TABLES:

* **admin**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | admin | | | |
| **Description of Table** | This includes Information of Admin | | | |
| **Primary or Candidate Key of Table** | admin\_username | | | |
| **Foreign Keys of Table and Association of Tables** | - | | | |
| * Sr.no | Field Name | Datatype | Width | Constraint |
| 1 | admin\_username | varchar | 30 | Primary Key |
| 2 | admin\_name | varchar | 50 | NOT NULL |
| 3 | admin\_address | varchar | 80 | NOT NULL |
| 4 | admin\_phoneno | varchar | 10 | NOT NULL |
| 5 | admin\_password | varchar | 20 | NOT NULL |

* **customer**

|  |  |
| --- | --- |
| **Table Name** | customer |
| **Description of Table** | This includes Information of Customer |
| **Primary or Candidate Key of Table** | cust\_username |
| **Foreign Keys of Table and Association of Tables** | - |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr.no | Field Name | Datatype | Width | Constraint |
| 1 | cust\_username | varchar | 30 | Primary Key |
| 2 | cust\_name | varchar | 50 | NOT NULL |
| 3 | emailid | varchar | 30 | NOT NULL |
| 4 | cust\_address | varchar | 80 | NOT NULL |
| 5 | cust\_phoneno | varchar | 10 | NOT NULL |
| 6 | cust\_password | varchar | 30 | NOT NULL |

* **product**

|  |  |
| --- | --- |
| **Table Name** | product |
| **Description of Table** | This includes Information of Product the Admin is selling |
| **Primary or Candidate Key of Table** | p\_id |
| **Foreign Keys of Table and Association of Tables** | - |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr.no | Field Name | Datatype | Width | Constraint |
| 1 | p\_id | int | 11 | Primary Key |
| 2 | p\_name | varchar | 35 | NOT NULL |
| 3 | p\_rate | int | 11 | NOT NULL |
| 4 | p\_img\_src | varchar | 35 | NOT NULL |
| 5 | p\_description | varchar | 100 | NOT NULL |

* **order\_short**

|  |  |
| --- | --- |
| **Table Name** | admin |
| **Description of Table** | This includes Information of Orders given by customer |
| **Primary or Candidate Key of Table** | order\_id |
| **Foreign Keys of Table and Association of Tables** | cust\_username From customer table. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr.no | Field Name | Datatype | Width | Constraint |
| 1 | order\_id | int | 11 | Primary Key |
| 2 | delivery\_address | varchar | 80 | NOT NULL |
| 3 | o\_date | date |  | NOT NULL |
| 4 | total | int | 11 | NOT NULL |
| 5 | cust\_username | Varchar | 30 | Foreign Key |

* **order\_details**

|  |  |
| --- | --- |
| **Table Name** | order\_details |
| **Description of Table** | This includes Information of Orders details and order with there respective products. |
| **Primary or Candidate Key of Table** | - |
| **Foreign Keys of Table and Association of Tables** | order\_id From order\_short table.  p\_id From product table. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr.no | Field Name | Datatype | Width | Constraint |
| 1 | order\_id | int | 11 | Foreign key |
| 2 | p\_id | int | 11 | Foreign key |
| 3 | quantity | decimal | 7,3 | NOT NULL |
| 4 | amt | int | 11 | NOT NULL |

4.3) Data Dictionary:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field Name | Datatype | Width | Constraint | Description |
| 1 | admin\_address | varchar | 80 | NOT NULL | No Reference |
| 2 | admin\_name | varchar | 50 | NOT NULL | No Reference |
| 3 | admin\_password | varchar | 20 | NOT NULL | No Reference |
| 4 | admin\_phoneno | varchar | 10 | NOT NULL | No Reference |
| 5 | admin\_username | varchar | 30 | Primary Key | Primary key in admin table.  No Reference |
| 6 | amt | int | 11 | NOT NULL | No Reference |
| 7 | cust\_address | varchar | 80 | NOT NULL | No Reference |
| 8 | cust\_name | varchar | 50 | NOT NULL | No Reference |
| 9 | cust\_password | varchar | 30 | NOT NULL | No Reference |
| 10 | cust\_phoneno | varchar | 10 | NOT NULL | No Reference |
| 11 | cust\_username | varchar | 30 | Primary Key | Primary key in customer table.  References to order\_short table. |
| 12 | delivery\_address | varchar | 80 | NOT NULL | No Reference |
| 13 | emailid | varchar | 30 | NOT NULL | No Reference |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field Name | Datatype | Width | Constraint | Description |
| 14 | order\_id | int | 11 | Primary Key | Primary key in order\_short.  Reference to order\_details. |
| 15 | o\_date | date |  | NOT NULL | Order Date |
| 16 | p\_description | varchar | 100 | NOT NULL | Product Description |
| 17 | p\_id | int | 11 | Primary Key | Primary key in product.  Reference to order\_details. |
| 18 | p\_img\_src | varchar | 35 | NOT NULL | Product image path |
| 19 | p\_name | varchar | 35 | NOT NULL | Product Name |
| 20 | p\_rate | int | 11 | NOT NULL | Product rate |
| 21 | quantity | decimal | 7,3 | NOT NULL | Product Quantity |
| 22 | total | int | 11 | NOT NULL | Order Total |