**3.SYSTEM DESIGN**

**3.1 Database Design**

A data base is a collection of inter related data stored with minimum redundancy to serve many users quickly and efficiently. In database design data independence, accuracy, privacy and security are given higher priority. Database design is an integrated approach to file design. This activity deals with the design of the physical data base. All entities and attributes have been identified while creating the database. The data base design deals with the grouping of data into number of tables so as to.

* Reduce duplication of data.
* Minimize storage phase.
* Retrieve the data efficiently.

Following are some guidelines for database design:

* Design a relational schema so that it is easy to explain its meaning. Do not combine attributes from multiple entity and relationship type into a single relation.
* Design the database schema so that no insertion, deletion or modification anomalies are present in the relation.
* As far as possible, avoid placing attributes in the base relation whose values may frequently be null.
* Design relation schema so that they can be joined with equality conditions on attributes that are either primary keys or foreign keys in a way that no spurious tuples are generated.

**3.1.1 Table Design**

**Login Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| Logid | int | Primary key | Logid of the user,exhibitor,company |
| username | varchar(50) |  | Username of the user,exhibitor,company |
| password | varchar(50) |  | Password of the user,company,exhibitor |
| Type | varchar(50) |  | type means admin,company,exhibitor,user |
| Status | varchar(50) |  | Approve or pending |

**User Registration Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| Userid | int | Primary key | Userid of the user |
| Logid | int |  | Logid of the user |
| Name | varchar(50) |  | User’s name |
| Age | int |  | User's age |
| housename | varchar(50) |  | User’s housename |
| country | varchar(50) |  | Country name |
| State | varchar(50) |  | State name |
| District | varchar(50) |  | District name |
| Place | varchar(50) |  | Place name |
| mobileno | bigint |  | User’s mobilennumber |
| Emailed | varchar(50) |  | User’s email id |

**Exhibitor Registration Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| exhibitorId | int | Primary key | Exhibitor’s registration id |
| Logid | int |  | Logid of the exhibitor |
| exhibitorname | varchar(50) |  | Exhibitor’s name |
| Age | int |  | Exhibitor’s age |
| Gender | varchar(50) |  | Exhibitor’s gender |
| experience | varchar(50) |  | Exhibitor’s experience |
| address | varchar(50) |  | Exhibitor’s experience |
| country | varchar(50) |  | Country name |
| State | varchar(50) |  | State name |
| District | varchar(50) |  | District name |
| mobilenumber | bigint |  | Exhibitors moblenumber |
| emailed | varchar(50) |  | Exhibitor’s emailed |
| Photo | varchar(MAX) |  | Exhibitor’s photo |

**Company Registration Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| companyId | int | Primary key | Company registration id |
| Logid | int |  | Login id of company |
| companyname | varchar(50) |  | Company’s name |
| companytype | varchar(50) |  | Company’s type |
| companyexperience | varchar(50) |  | Company’s experience |
| country | varchar(50) |  | Country name |
| State | varchar(50) |  | State name |
| District | varchar(50) |  | District name |
| streetaddress | varchar(50) |  | Street address |
| landmark | varchar(50) |  | Landmark name |

**Category Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| categoryId | int | Primary key | Category id |
| categoryname | varchar(50) |  | Category name |
| subcategoryname | varchar(50) |  | Subcategory name |

**Landmark Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| landmarkid | int | Primary key | Landmark id |
| country | varchar(50) |  | Country name |
| State | varchar(50) |  | State name |
| District | varchar(50) |  | District name |
| Place | varchar(50) |  | Place name |

**Company Product Details Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| productId | int | Primary key | Product id |
| companyId | int |  | Company id |
| categoryId | int |  | Category id |
| subcategory | varchar(50) |  | Subcategory name |
| productname | varchar(50) |  | Product name |
| productquantity | int |  | Product’s quantity |
| description | varchar(MAX) |  | About the product |
| Price | decimal(18,2) |  | Product’s price |
| Status | varchar(50) |  | Pending or approval |

**Company Request Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| requestid | int | Primary key | Company request id |
| exhibitorId | int |  | Exhibitor id |
| Expoid | int |  | Expo id |
| companyid | int |  | Company id |
| description | nvarchar(50) |  | About company |
| Status | varchar(50) |  | Pending or approve |

**Expo Ticket Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| ticketed | int | Primary key | Ticket id |
| expoId | int |  | Expo id |
| tickettype | varchar(50) |  | Type of ticket |
| ticketrate | float |  | Rate of ticket |

**Expo Booth Allocation Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| allocationid | int | Primary key | Allocation id |
| Expoid | int |  | Expo id |
| companyid | int |  | Company id |
| boothnumber | varchar(50) |  | Number of the booth |
| Status | varchar(50) |  | requested or allocated |

**Expo Details Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| expoId | int | Primary key | Expo id |
| exhibitorId | int |  | Exhibitor id |
| expotitle | varchar(50) |  | Expo title |
| expotype | varchar(50) |  | Expo type |
| category | varchar(50) |  | Category name |
| subcategory | varchar(50) |  | Subcategory name |
| country | varchar(50) |  | Country name |
| State | varchar(50) |  | State name |
| District | varchar(50) |  | District name |
| Place | varchar(50) |  | Name of the place |
| numberofbooth | varchar(50) |  | Number of the booth |
| Image | varchar(MAX) |  | Image |
| Plans | varchar(MAX) |  | Details of expo |
| startingdate | nvarchar(50) |  | Starting date of expo |
| endingdate | nvarchar(50) |  | Ending date of expo |
| Status | nvarchar(50) |  | Registered or approved |

**Invite Company Table**

|  |  |  |  |
| --- | --- | --- | --- |
| Filed Name | Data Type | Key | Description |
| inviteId | int | Primary key | Invite id |
| expoId | int |  | Expo id |
| companyid | int |  | Company id |
| Details | varchar(MAX) |  | Details company |
| Status | varchar(50) |  | Requested,accepted |

**Purchase Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| orderdetailsid | int | Primary key | Order details id |
| userId | int |  | User id |
| Total | nvarchar(50) |  | Total purchase |
| Date | nvarchar(MAX) |  | Date |
| Status | Varchar(50) |  | Deliver, purchase |

**Send Notification Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data type** | **Key** | **Description** |
| notifyId | int | Primary key | Notification id |
| sendersid | int |  | Senders id |
| Details | varchar(MAX) |  | Notification details |
| Type | varchar(50) |  | Type |
| Status | varchar(50) |  | Pending or approve |

**Suggestion Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| sugId | int | Primary key | Suggestion id |
| userId | int |  | User id |
| companyId | int |  | Company id |
| description | varchar(MAX) |  | Suggestion details |
| Reply | varchar(MAX) |  | Reply |
| Status | varchar(50) |  | Pending or approve |

**Tempory Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| orderid | int | Primary key | Order id |
| Userid | int |  | User id |
| companyid | int |  | Company id |
| productid | int |  | Product id |
| quantity | decimal(18,0) |  | Quantity of the product |
| Total | decimal(18,0) |  | Total |
| Date | varchar(50) |  | Date of expo |
| Status | varchar(50) |  | Purcahse |

**User Order Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| Ordered | int | Primary key | Order id |
| Userid | int |  | User id |
| companyid | int |  | Company id |
| productid | int |  | Product id |
| quantity | decimal(18,0) |  | Quantity of the product |
| Total | decimal(18,0) |  | Total |
| Date | varchar(50) |  | Date of expo |
| Status | varchar(50) |  | Pending or approve |

**User Ticket Booking Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| ticketbookid | int | Primary key | Ticket book id |
| userId | int |  | User id |
| expoId | int |  | Expo id |
| Date | nvarcahr(50) |  | Date of expo |
| ticketed | int |  | Ticket id |
| amount | decimal(18,0) |  | Amount of ticket |
| Status | varchar(50) |  | Issued ,paid ,booked |

**Account Details Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| Aid | int | Primary key | Account id |
| Name | nvarchar(50) |  | Name of the user |
| address | nvarchar(50) |  | Address of user |
| accountNo | nvarchar(50) |  | Account number |
| cardNo | nvarchar(50) |  | Card number |
| Cvv | nvarchar(50) |  | Cvv number |
| transactionPassword | varchar(50) |  | Transaction password |
| balance | decimal(18,2) |  | Balance |

**Transaction Details Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Key** | **Description** |
| tId | int | Primary key | Transaction id |
| fromAccountNo | varchar(50) |  | From which account its number |
| toAccountNo | varchar(50) |  | To which account its number |
| amount | varchar(50) |  | Amount to which transfer |
| remarks | varchar(50) |  | Remarks |

**3.1.2 ER DIAGRAM**

admincat

admin

company

user

exhibitorregistration

exhibitor

expodetails

purchase

userregistrartion

companyproduct

compayregistrartionn

adminland