**Table Design of NurtureNest**

**1. Login Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| login\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each login |
| email | VARCHAR (100) | NOT NULL | User's email address for login |
| password | VARCHAR (255) | NOT NULL | Encrypted password |
| user\_type | VARCHAR (20) | NOT NULL | Type of user (Parent/Admin/Provider) |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |

**2. Registration Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| user\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each user |
| user\_name | VARCHAR (100) | NOT NULL | User's name |
| user\_email | VARCHAR (100) | NOT NULL, UNIQUE | User's email |
| user\_mobile | VARCHAR (15) | NULL | User's mobile number |
| user\_address | VARCHAR (255) | NULL | User's address |
| user\_pin | INT | NULL | User's pin code |
| status | INT | NULL | Status of the user |
| login\_id | INT | FOREIGN KEY REFERENCES Login(login\_id) | Foreign key referencing the login table |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | Last update timestamp |

**3. Child Profile Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| child\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each child |
| user\_id | INT | FOREIGN KEY REFERENCES Registration(user\_id) | Parent's user ID |
| child\_name | VARCHAR (100) | NOT NULL | Child's name |
| child\_birthdate | DATE | NOT NULL | Child's birthdate |
| child\_gender | CHAR (1) | NOT NULL | Child's gender (M/F) |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |

**4. Child Medical History Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| history\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each history record |
| child\_id | INT | FOREIGN KEY REFERENCES Child\_Profile(child\_id) | Child's ID |
| blood\_group | VARCHAR(3) | NOT NULL | Child's blood group (e.g., A+, O-) |
| allergies | TEXT | NULL | Any known allergies |
| chronic\_conditions | TEXT | NULL | Any chronic conditions |
| medications | TEXT | NULL | Current medications |

**5. Vaccination Details Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| vaccine\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each vaccine |
| vaccine\_name | VARCHAR (100) | NOT NULL | Name of the vaccine |
| description | TEXT | NULL | Description of the vaccine |
| recommended\_age | INT | NOT NULL | Recommended age for vaccination (in months) |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | Last update timestamp |

**6. Appointment Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| appointment\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each appointment |
| child\_id | INT | FOREIGN KEY REFERENCES Child\_Profile(child\_id) | Child's ID |
| vaccine\_id | INT | FOREIGN KEY REFERENCES Vaccination\_Schedule(vaccine\_id) | Vaccine ID |
| appointment\_date | DATETIME | NOT NULL | Date and time of the appointment |
| status | VARCHAR (20) | DEFAULT 'Pending' | Status of the appointment (Pending/Confirmed/Completed) |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | Last update timestamp |

**7. Growth Tracking Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| growth\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each growth record |
| child\_id | INT | FOREIGN KEY REFERENCES Child\_Profile(child\_id) | Child's ID |
| age\_months | INT | NOT NULL | Age of the child in months |
| weight | FLOAT | NOT NULL | Weight of the child (in kg) |
| height | FLOAT | NOT NULL | Height of the child (in cm) |
| developmental\_stages | TEXT | NULL | Details of developmental stages |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |

**8. Nutritional Guidance Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| nutrition\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each nutrition record |
| age\_group | VARCHAR (50) | NOT NULL | Age group for which the guidance is provided |
| food\_items | TEXT | NOT NULL | List of recommended food items |
| dietary\_plan | TEXT | NULL | Detailed dietary plan |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | Last update timestamp |

**9. Activity Suggestions Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| activity\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each activity suggestion |
| age\_group | VARCHAR (50) | NOT NULL | Age group for which the activity is suitable |
| activities | TEXT | NOT NULL | List of recommended activities |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | Last update timestamp |

**10. Health Tips Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| tip\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each health tip |
| title | VARCHAR (100) | NOT NULL | Title of the health tip |
| content | TEXT | NOT NULL | Content of the health tip |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | Last update timestamp |

**11. Admin Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| admin\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each admin |
| username | VARCHAR (50) | NOT NULL, UNIQUE | Username for admin login |
| password | VARCHAR (255) | NOT NULL | Encrypted password |
| email | VARCHAR (100) | NOT NULL, UNIQUE | Admin's email address |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |

**12. Healthcare Provider Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| provider\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each provider |
| name | VARCHAR (100) | NOT NULL | Name of the healthcare provider |
| email | VARCHAR (100) | NOT NULL, UNIQUE | Provider's email address |
| phone | VARCHAR (15) | NULL | Provider's phone number |
| speciality | VARCHAR (100) | NULL | Provider's speciality |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP | Last update timestamp |

**13. Telemedicine Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| telemedicine\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each telemedicine session |
| child\_id | INT | FOREIGN KEY REFERENCES Child\_Profile(child\_id) | Child's ID |
| provider\_id | INT | FOREIGN KEY REFERENCES Healthcare\_Provider(provider\_id) | Provider's ID |
| appointment\_date | DATETIME | NOT NULL | Date and time of the telemedicine appointment |
| notes | TEXT | NULL | Notes from the telemedicine session |
| medicine\_details | TEXT | NULL | Details of any prescribed medicines |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |

**14. Notifications Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fields** | **Type** | **Constraints** | **Description** |
| notification\_id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each notification |
| user\_id | INT | FOREIGN KEY REFERENCES Register(register\_id) | User's ID |
| message | TEXT | NOT NULL | Notification message |
| notification\_type | VARCHAR (50) | NOT NULL | Type of notification (email/SMS) |
| sent\_at | TIMESTAMP | NOT NULL | Timestamp when the notification was sent |
| status | VARCHAR (20) | DEFAULT 'Pending' | Status of the notification (Pending/Sent/Failed) |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |