

Data Dictionary - EServices

For an eServices project, we require a variety of tables to manage users, services, requests, transactions, and other relevant information. Here are some common types of tables and their importance:

1. Users Table

- **Purpose:** Stores information about users of the eServices platform.
- **Fields:**
 - `user_id`: Unique identifier for the user.
 - `username`: Username chosen by the user.
 - `email`: User's email address.
 - `password`: Hashed password for the user.
 - `created_at`: Timestamp when the account was created.
- **Importance:** Essential for identifying and managing user accounts, providing personalized services, and ensuring effective communication.

2. Admins Table

- **Purpose:** Stores information about administrators who manage the platform.
- **Fields:**
 - `admin_id`: Unique identifier for the admin.
 - `username`: Admin's username.
 - `email`: Admin's email address.
 - `password`: Hashed password for the admin.
 - `role`: Role of the admin (e.g., super admin, support admin).
 - `created_at`: Timestamp when the admin account was created.
- **Importance:** Necessary for managing admin roles and permissions.

3. Services Table

Data Dictionary - EServices

- **Purpose:** Contains details about the various services offered on the platform.
- **Fields:**
 - `service_id`: Unique identifier for the service.
 - `name`: Name of the service.
 - `category`: Category of the service (e.g., cleaning, repair).
 - `description`: Detailed description of the service.
 - `price`: Price of the service.
- **Importance:** Helps in organizing and presenting the services to users.

4. ServiceRequest Table

- **Purpose:** Tracks requests made by users for different services.
- **Fields:**
 - `request_id`: Unique identifier for the request.
 - `user_id`: Identifier for the user who made the request.
 - `service_id`: Identifier for the requested service.
 - `request_date`: Date when the request was made.
 - `status`: Status of the request (e.g., pending, completed).
 - `description`: Additional details about the request.
 - `admin_id`: Identifier for the admin handling the request.
- **Importance:** Important for managing and tracking service requests.

5. Transactions Table

- **Purpose:** Records all financial transactions related to the services.
- **Fields:**
 - `transaction_id`: Unique identifier for the transaction.
 - `user_id`: Identifier for the user making the transaction.
 - `request_id`: Identifier for the service request related to the transaction.
 - `transaction_date`: Date of the transaction.

Data Dictionary - EServices

- `amount`: Amount of the transaction.
- `payment_method`: Method of payment (e.g., credit card, PayPal).
- **Importance:** Critical for financial tracking and reporting.

6. Feedback Table

- **Purpose:** Captures user feedback on the services they received.
- **Fields:**
 - `feedback_id`: Unique identifier for the feedback.
 - `user_id`: Identifier for the user providing feedback.
 - `service_id`: Identifier for the service being reviewed.
 - `feedback`: Textual feedback provided by the user.
 - `rating`: Rating given by the user (e.g., 1-5 stars).
 - `date`: Date when the feedback was given.
- **Importance:** Useful for improving service quality based on user feedback.

7. Notifications Table

- **Purpose:** Manages notifications sent to users and admins.
- **Fields:**
 - `notification_id`: Unique identifier for the notification.
 - `user_id`: Identifier for the user receiving the notification.
 - `message`: Content of the notification.
 - `status`: Status of the notification (e.g., read, unread).
 - `created_at`: Timestamp when the notification was created.
- **Importance:** Ensures users and admins are informed about important updates.

Data Dictionary - EServices

8. Logs Table

- **Purpose:** Keeps track of important activities and events on the platform.
- **Fields:**
 - `log_id`: Unique identifier for the log entry.
 - `user_id`: Identifier for the user associated with the activity.
 - `action`: Description of the action performed.
 - `timestamp`: Timestamp when the action occurred.
 - `details`: Additional details about the activity.
- **Importance:** Useful for auditing and troubleshooting.

9. Roles Table

- **Purpose:** Defines different roles and their permissions within the platform.
- **Fields:**
 - `role_id`: Unique identifier for the role.
 - `role_name`: Name of the role (e.g., admin, user).
 - `permissions`: List of permissions associated with the role.

Importance: Helps in managing access control and security.

10. Settings Table

- **Purpose:** Stores configuration settings for the platform.
- **Fields:**
 - `setting_id`: Unique identifier for the setting.
 - `name`: Name of the setting.
 - `value`: Value of the setting.
- **Importance:** Allows for dynamic configuration without code changes.

These tables provide a solid foundation for an eServices project, ensuring that you can efficiently manage users, services, requests, transactions, feedback, and other critical aspects of the platform.

Data Dictionary - EServices

1.Users

Field Name	Data Type	Description	Constraints	Default Value
user_id	INTEGER	Unique identifier for users	PRIMARY KEY	AUTO_INCREMENT
username	VARCHAR	Username chosen by the user	NOT NULL	-
email	VARCHAR	User's email address	NOT NULL	-
password	VARCHAR	Hashed password	NOT NULL	-
created_at	TIMESTAMP	Record creation timestamp	NOT NULL	CURRENT_TIMESTAMP

Data Dictionary - EServices

2. Admins Table

Field Name	Data Type	Description	Constraints	Default Value
admin_id	INTEGER	Unique identifier for admins	PRIMARY KEY	AUTO_INCREMENT
username	VARCHAR	Admin's username	NOT NULL	-
email	VARCHAR	Admin's email address	NOT NULL	-
password	VARCHAR	Hashed password	NOT NULL	-
role	VARCHAR	Admin role(e.g., superadmin, moderator)	NOT NULL	-
created_at	TIMESTAMP	Record creation timestamp	NOT NULL	CURRENT_TIMESTAMP

Data Dictionary - EServices

3. Services Table

Field Name	Data Type	Description	Constraints	Default Value
admin_id	INTEGER	Unique identifier for admins	PRIMARY KEY	AUTO_INCREMENT
name	VARCHAR	Name of the service	NOT NULL	-
category	VARCHAR	Category of the service	-	-
description	VARCHAR	Description of the service	-	-
price	DECIMAL	Price of the service	NOT NULL	-

4. ServiceRequest Table

Data Dictionary - EServices

Field Name	Data Type	Description	Constraints	Default Value
request_id	INTEGER	Unique identifier for service requests	PRIMARY KEY	AUTO_INCREMENT
user_id	INTEGER	ID of the user making request	FOREIGN KEY	-
service_id	INTEGER	ID of the requested service	FOREIGN KEY	-
requested_date	DATE	Date the request was made	NOT NULL	CURRENT_DATE
status	VARCHAR	Current status of the request	NOT NULL	'pending'
Description	TEXT	Description of the request	-	-
admin_id	INTEGER	ID of the admin handling the request	FOREIGN KEY	-

Data Dictionary - EServices

5. Transaction Table

Field Name	Data Type	Description	Constraints	Default Value
transaction_id	INTEGER	Unique identifier for service transactions	PRIMARY KEY	AUTO_INCREMENT
user_id	INTEGER	ID of the user making the transaction	FOREIGN KEY	-
request_id	INTEGER	ID of the related service request	FOREIGN KEY	-
transaction_date	TIMESTAMP	Timestamp of the transaction	NOT NULL	CURRENT_TIMESTAMP
amount	DECIMAL	Transaction amount	NOT NULL	-
payment_method	VARCHAR	Method of payment	NOT NULL	-

Data Dictionary - EServices

6. feedback Table

Field Name	Data Type	Description	Constraints	Default Value
feedback_id	INTEGER	Unique identifier for feedback	PRIMARY KEY	AUTO_INCREMENT
user_id	INTEGER	ID of the user providing feedback	FOREIGN KEY	-
service_id	INTEGER	ID of the related service	FOREIGN KEY	-
feedback	TEXT	User feedback	NOT NULL	-
rating	INTEGER	Rating given by the user(1-5)	NOT NULL	-
date	TIMESTAMP	Date and time the feedback was given	NOT NULL	CURRENT_TIMESTAMP

Data Dictionary - EServices

7. Notifications Table

Field Name	Data Type	Description	Constraints	Default Value
notification_id	INTEGER	Unique identifier for notifications	PRIMARY KEY	AUTO_INCREMENT
user_id	INTEGER	ID of the user receiving the notification	FOREIGN KEY	-
message	TEXT	Notification message	NOT NULL	-
status	VARCHAR	Notification status(read/unread)	NOT NULL	'unread'
created_at	TIMESTAMP	Date and time the notification was created	NOT NULL	CURRENT_TIMESTAMP

Data Dictionary - EServices

8. Logs Table

Field Name	Data Type	Description	Constraints	Default Value
log_id	INTEGER	Unique identifier for logs	PRIMARY KEY	AUTO_INCREMENT
user_id	INTEGER	ID of the user related to the action	FOREIGN KEY	-
action	VARCHAR	Action performed	NOT NULL	-
Timestamp	TIMESTAMP	Time of the action	NOT NULL	CURRENT_TIMESTAMP
details	TEXT	Additional details about the action	-	-

Data Dictionary - EServices

9. Roles Table

Field Name	Data Type	Description	Constraints	Default Value
role_id	INTEGER	Unique identifier for roles	PRIMARY KEY	AUTO_INCREMENT
role_name	VARCHAR	Name of the role	NOT NULL	-
permissions	TEXT	Permissions associated with the role	NOT NULL	-

10.Settings Table

Field Name	Data Type	Description	Constraints	Default Value
setting_id	INTEGER	Unique identifier for settings	PRIMARY KEY	AUTO_INCREMENT
name	VARCHAR	Name of the setting	NOT NULL	-
value	TEXT	Value of the setting	NOT NULL	-