1. **Users Table**: This table stores information about users who interact with the system.

Column Name	Data Type	Description
UserID	INT	Primary Key, Auto-Increment,
Username	VARCHAR(50)	Unique, Not Null
Password	VARCHAR(100)	Encrypted, Not Null
Email	VARCHAR(100)	Unique, Not Null
UserType	ENUM('student', 'staff')	Not Null
Phone	INT	Not Null

2. **Bookings Table**: This table stores information about laundry bookings made by users.

Column Name	Data Type	Description
BookingID	INT	Primary Key, Auto-Increment
UserID	INT	Foreign Key (Users), Not Null
PickupDate	DATE	Not Null
PickupTime	TIME	Not Null
DeliveryDate	DATE	Not Null
DeliveryTime	TIME	Not Null
Status	ENUM('pending', 'completed', 'cancelled')	Not Null

3. **Addresses Table**: This table stores addresses of users for pickup and delivery.

Column Name	Data Type	Description
AddressID	INT	Primary Key, Auto-Increment
UserID	INT	Foreign Key (Users), Not Null
AddressType	ENUM('pickup', 'delivery')	Not Null
Block	VARCHAR(20)	Not Null
HostelName	VARCHAR(100)	Not Null
RoomNumber	INT	Not Null

4. **Notifications Table**: This table stores notifications sent to users.

Column Name	Data Type	Description
NotificationID	INT	Primary Key, Auto-Increment
UserID	INT	Foreign Key (Users), Not Null
Message	TEXT	Not Null
Timestamp	DATETIME	Not Null
Status	ENUM('unread', 'read')	Not Null

5. **Items Table**: This table stores information about items in each laundry booking.

Column Name	Data Type	Description
ItemID	INT	Primary Key, Auto-Increment
BookingID	INT	Foreign Key (Bookings), Not Null
Description	VARCHAR(255)	Not Null

Column Name	Data Type	Description
Quantity	INT	Not Null

6. **Payments Table**:

Column Name	Data Type	Description
PaymentID	INT	Primary Key, Auto-Increment
BookingID	INT	Foreign Key (Bookings), Not Null
Amount	DECIMAL(10,2)	Not Null
PaymentDate	DATETIME	Not Null
PaymentStatus	ENUM('pending', 'completed', 'cancelled')	Not Null
PaymentMethod	ENUM('cash'., 'm-pesa', etc)	Not Null
TransactionID	VARCHAR(100)	Unique

TABLE RELATIONSHIPS

Users Table:

One-to-Many relationship with Bookings Table: One user can have multiple bookings.

One-to-Many relationship with Addresses Table: One user can have multiple addresses for pickup and delivery.

One-to-Many relationship with Notifications Table: One user can receive multiple notifications.

Bookings Table:

Many-to-One relationship with Users Table: Many bookings can belong to one user.

One-to-Many relationship with Items Table: One booking can have multiple items.

Addresses Table:

Many-to-One relationship with Users Table: Many addresses can belong to one user.

Notifications Table:

Many-to-One relationship with Users Table: Many notifications can belong to one user.

Items Table:

Many-to-One relationship with Bookings Table: Many items can belong to one booking.

Bookings Table:

One-to-One relationship with Payments Table: Each booking has one associated payment.