Phase 3: Data Modeling, Relationships, and Page Layouts

Objective

This phase was dedicated to building the complete data foundation for the **"Make Parking Easier"** application. The work involved creating a logical structure with custom objects, defining specific fields to capture all necessary data, establishing relationships between the objects, and designing user-friendly page layouts for efficient data entry.

Custom Objects and Their Fields

1. Customer Object This object stores essential information about the users who will be booking parking.

- **Customer Name** (Text, Required) - The full name of the customer.
- **Email** (Email) - The customer's primary contact email.
- **Phone** (Phone) - The customer's contact phone number.
- **Vehicle Details** (Text Area) - Information about the customer's vehicle, like license plate and model.

2. Parking Slot Object This object represents each individual, physical parking space that can be booked.

- **Slot Number** (Text, Required, Unique) - The unique identifier for the parking space (e.g., A-01, B-12).
- **Location/Lot** (Text) - The name or section of the parking garage where the slot is located.
- **Status** (Picklist: Available, Occupied, Reserved) - The real-time status of the parking slot.
- **Type** (Picklist: Standard, Compact, EV Charging) - The category of the parking slot.

3. Booking Object This object acts as the central record, linking a customer to a specific parking slot for a period of time.

- **Booking Number** (Auto-Number) - A unique, system-generated ID for each booking.

- **Customer** (Lookup Relationship) - A link to the Customer record making the reservation.
- **Parking Slot** (Lookup Relationship) - A link to the specific Parking Slot being reserved.
- **Start Time** (Date/Time) - The date and time the booking begins.
- **End Time** (Date/Time) - The date and time the booking ends.

4. Parking Availability Object This object is used to provide a real-time view of available parking slots, making it easy for users to find and book an open space.

Relationships Between Objects

The relationships are the connections that make the application work logically.

- The **Booking** object is the center of the model, connecting both the **Customer** and the **Parking Slot** through Lookup relationships. This creates a complete record of who is parking where and for how long.

Page Layouts

Page layouts for each object were configured to ensure an intuitive user experience when creating new records. The fields were organized logically, and required fields were marked to ensure data integrity.

(Place your "New Customer", "New Parking Slot", and "New Booking" screenshots here)

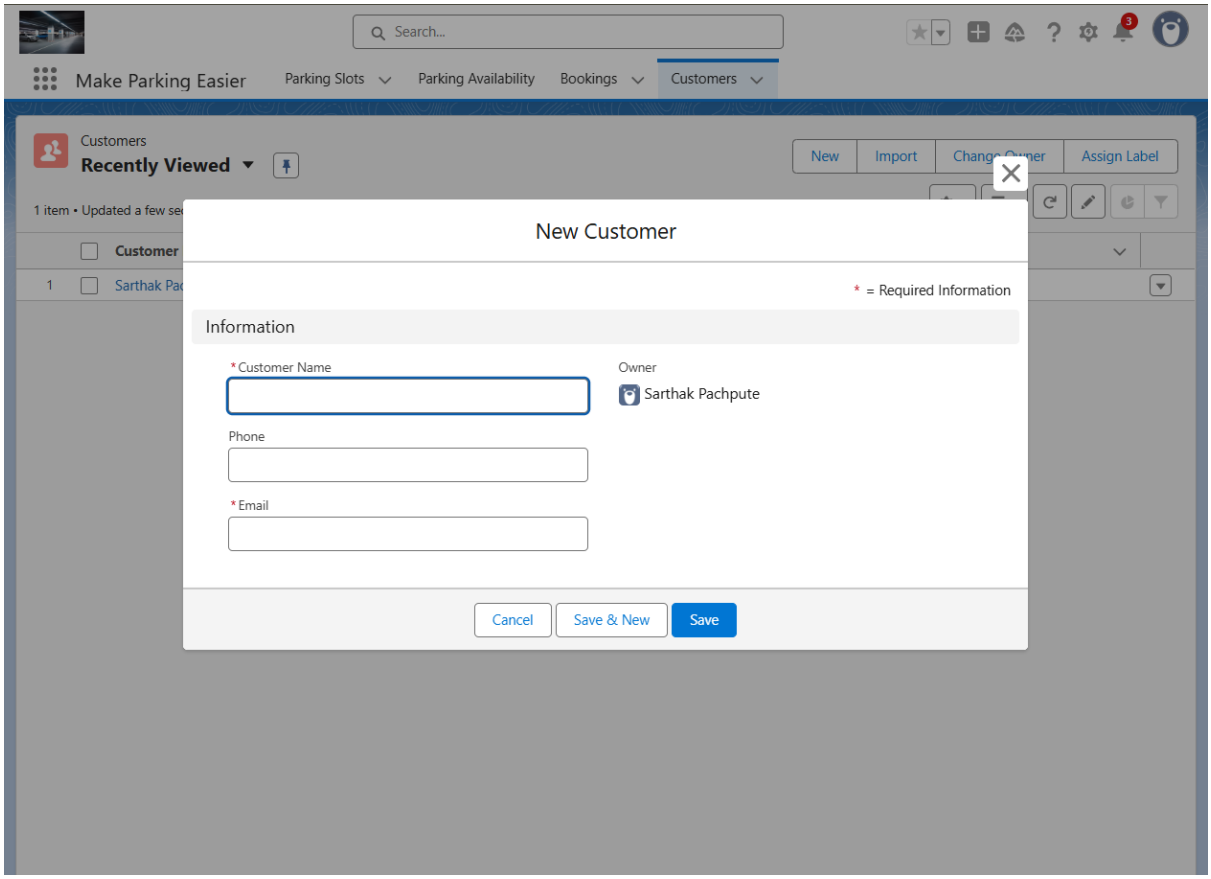
Data Model Schema

The Schema Builder was used to visualize the complete data model, confirming that all objects and relationships were correctly configured to support the application's business logic.

(Place your Schema Builder screenshot here)

Conclusion

Phase 3 has successfully established a robust and scalable data model. With well-defined objects, critical relationships, and user-friendly page layouts, the foundation for the "Make Parking Easier" application is now securely in place, ready for the next phase of development.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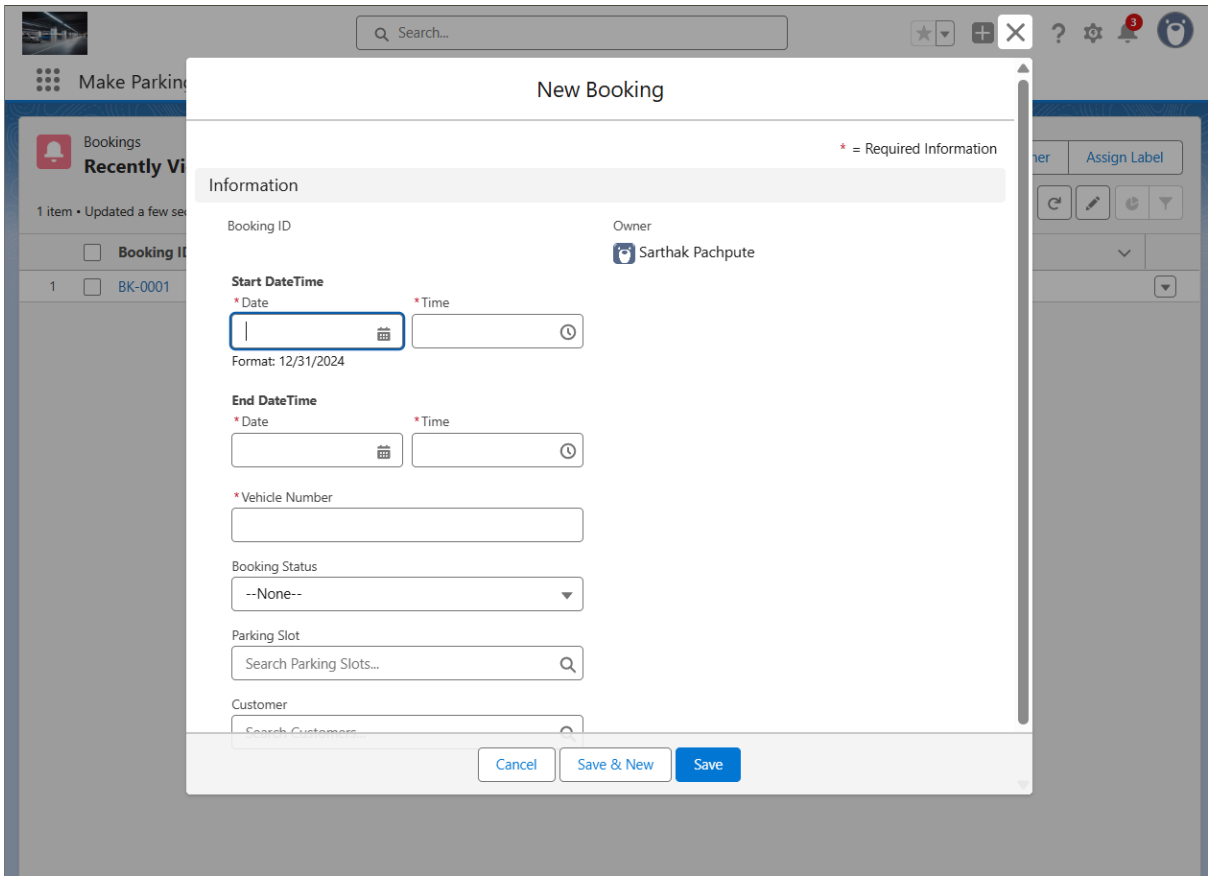
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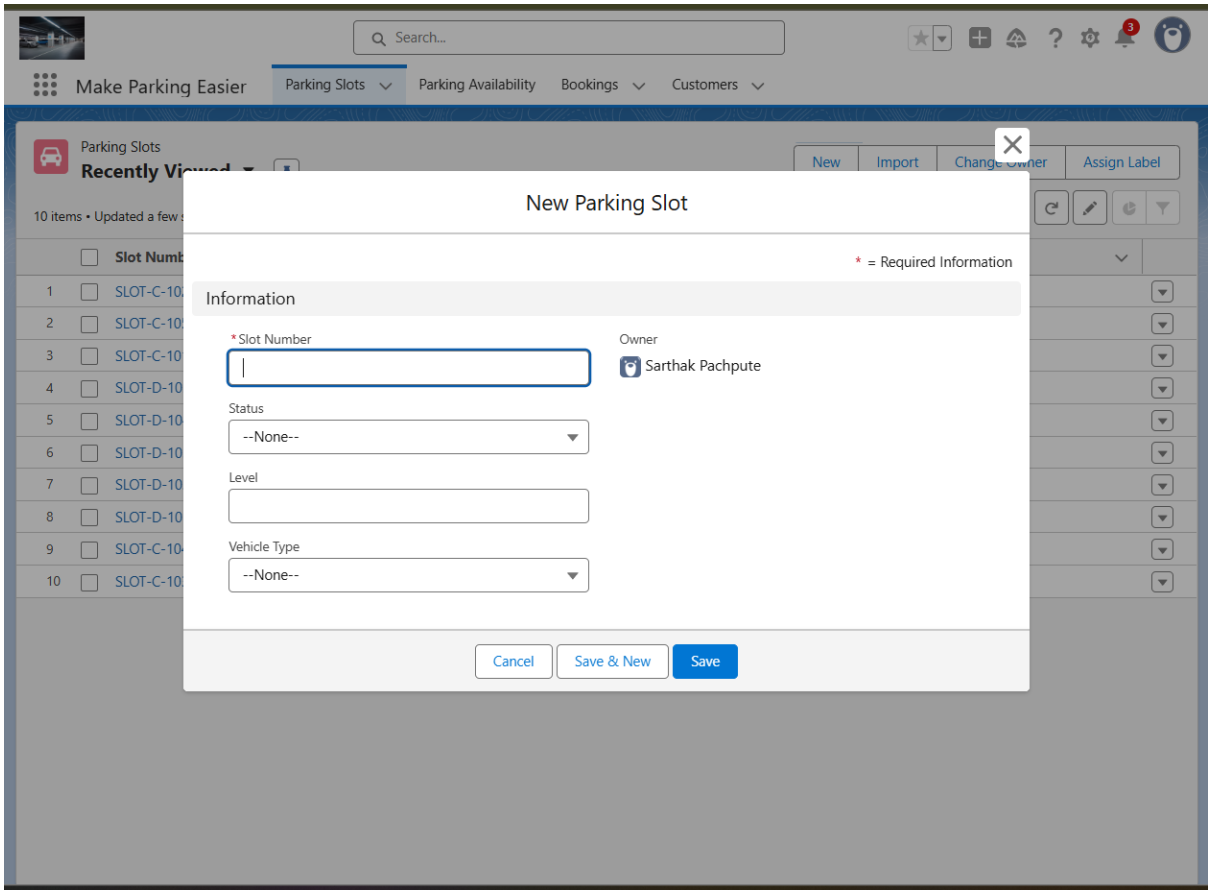

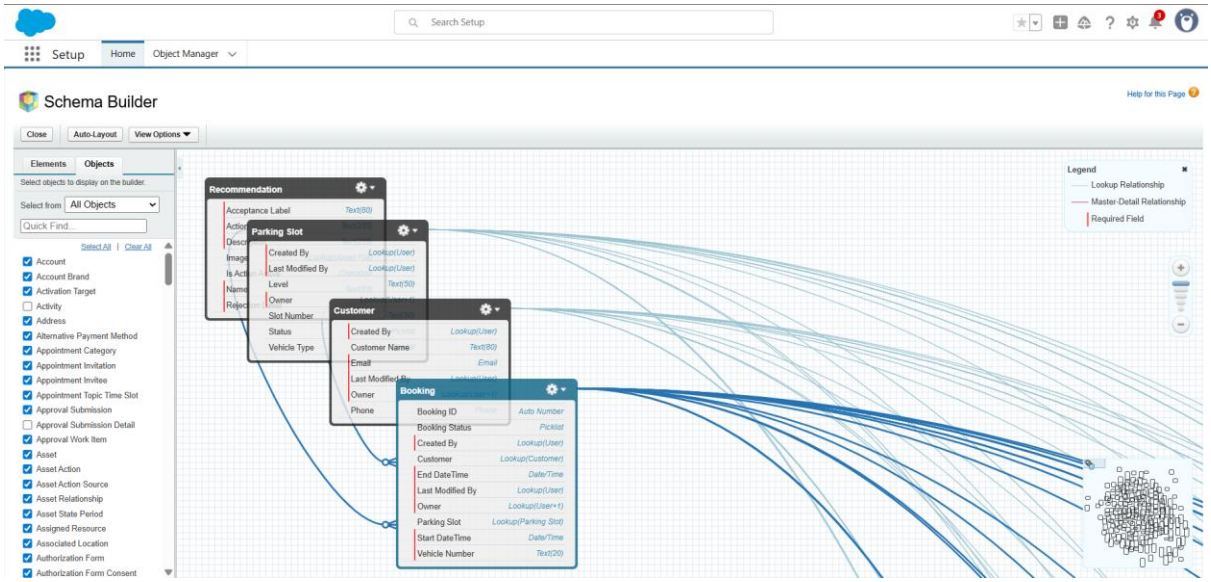

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