|  |  |  |
| --- | --- | --- |
| Object | Attributes | Methods |
| Customer | Customer ID (Primary Key) , Name, Contact Number, Email - ID Proof Booking History | Create Account update Profile view Booking History cancel Reservation book Room |
| Room | - Room ID (Primary Key) Room Type (Single, Double, Deluxe, etc.) - Price Availability Status Description | Add Room update Room Details remove Room check Availability() |
| Reservation | Reservation  - Reservation ID (Primary Key)- Customer ID (Foreign Key) - Room ID (Foreign Key) - Check-in Date - Check-out Date Status Confirmed, Canceled, Completed | Rate Reservation() update Reservation() cancel Reservation() get Reservation Details() |
| Payment | - Payment ID (Primary Key) - Reservation ID (Foreign Key) Amount - Payment Method (Credit Card, Cash, etc.) Payment Date  - | - process Payment() refund Payment() get Payment Details() |
| Admin/Staff | Staff ID (Primary Key) Name -Role (Admin, Receptionist, etc.) Contact Number - Email | login() manage Rooms() manage Reservations() generate Reports() |
| Invoice | Invoice ID (Primary Key) Reservation ID (Foreign Key) - Total Amount - Date Issued - Payment Status | Generate Invoice() send Invoice() get Invoice Details() |
| Booking History | - History ID (Primary Key) Customer ID (Foreign Key) - Reservation ID (Foreign Key) Date of Booking  - | Add Booking History() get Booking History() clear Booking History() |