# IT Project Proposal: CCBnB Accommodation Platform

Submitted date: Dec. 4, 2023

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## ER diagram

## DataModel

//实体类Booking

public class Booking

{

public int Id { get; set; }

public int UserId { get; set; }

public int RoomId { get; set; }

public DateTime StartDate { get; set; }

public DateTime EndDate { get; set; }

public decimal TotalPrice { get; set; }

public string GuestName { get; set; }

public string GuestPhone { get; set; }

public string Status { get; set; }

public string Remark { get; set; }

// Navigation properties

public User User { get; set; }

public Room Room { get; set; }

}

// Room

public class Room

{

public int Id { get; set; }

public string Number { get; set; }

public string Type { get; set; }

public decimal Price { get; set; }

public string Status { get; set; }

public string Desc { get; set; }

public string ImgUrl { get; set; }

}

//User

public class User

{

public int Id { get; set; }

public string Name { get; set; }

public string Email { get; set; }

public string PhoneNumber { get; set; }

public string Password { get; set; }

}

## SimpleData

Users\_20231204.sql

Rooms\_20231204.sql

Bookings\_20231204.sql

INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (1, '101', 'Single', '100.00', 'Available', 'Cozy single room with a view', '');  
INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (2, '102', 'Single', '100.00', 'Occupied', 'Single room with excellent lighting', '');  
INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (3, '103', 'Double', '150.00', 'Available', 'Spacious double room', '');  
INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (4, '104', 'Double', '150.00', 'Occupied', 'Double room with two beds', '');  
INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (5, '105', 'Suite', '300.00', 'Available', 'Luxurious suite with a balcony', '');  
INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (6, '201', 'Single', '120.00', 'Available', 'Single room with extra amenities', '');  
INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (7, '202', 'Double', '180.00', 'Available', 'Double room with modern decor', '');  
INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (8, '203', 'Double', '180.00', 'Occupied', 'Elegant room with a double bed', '');  
INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (9, '204', 'Suite', '350.00', 'Available', 'Exclusive suite with a minibar', '');  
INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (10, '301', 'Single', '130.00', 'Available', 'Single room on top floor', '');  
INSERT INTO "Rooms" ("Id", "Number", "Type", "Price", "Status", "Desc", "ImgUrl") VALUES (11, 'string', 'string', '0', 'string', 'string', '');

INSERT INTO "Users" ("Id", "Name", "Email", "PhoneNumber", "Password") VALUES (2, 'Jane Smith', 'jane.smith@example.com', '0987654321', 'hashed\_password');  
INSERT INTO "Users" ("Id", "Name", "Email", "PhoneNumber", "Password") VALUES (3, 'Alice Johnson', 'alice.johnson@example.com', '2345678901', 'hashed\_password');  
INSERT INTO "Users" ("Id", "Name", "Email", "PhoneNumber", "Password") VALUES (4, 'Bob Brown', 'bob.brown@example.com', '3456789012', 'hashed\_password');  
INSERT INTO "Users" ("Id", "Name", "Email", "PhoneNumber", "Password") VALUES (5, 'Charlie Davis', 'charlie.davis@example.com', '4567890123', 'hashed\_password');  
INSERT INTO "Users" ("Id", "Name", "Email", "PhoneNumber", "Password") VALUES (6, 'Diana Evans', 'diana.evans@example.com', '5678901234', 'hashed\_password');  
INSERT INTO "Users" ("Id", "Name", "Email", "PhoneNumber", "Password") VALUES (7, 'Edward Fox', 'edward.fox@example.com', '6789012345', 'hashed\_password');  
INSERT INTO "Users" ("Id", "Name", "Email", "PhoneNumber", "Password") VALUES (8, 'Grace Hill', 'grace.hill@example.com', '7890123456', 'hashed\_password');  
INSERT INTO "Users" ("Id", "Name", "Email", "PhoneNumber", "Password") VALUES (9, 'Henry Ice', 'henry.ice@example.com', '8901234567', 'hashed\_password');  
INSERT INTO "Users" ("Id", "Name", "Email", "PhoneNumber", "Password") VALUES (10, 'Irene Joker', 'irene.joker@example.com', '9012345678', 'hashed\_password');  
INSERT INTO "Users" ("Id", "Name", "Email", "PhoneNumber", "Password") VALUES (1, 'John Doe', 'john.doe@example.com', '8888', '888888');

INSERT INTO "Bookings" ("Id", "UserId", "RoomId", "StartDate", "EndDate", "TotalPrice", "Remark", "GuestName", "GuestPhone", "Status") VALUES (35, 1, 2, '2023-12-04 03:20:05.786298+00', '2023-12-06 03:20:05.786318+00', '200.00', '', 'John Doe', '1234567890', 'Confirmed');  
INSERT INTO "Bookings" ("Id", "UserId", "RoomId", "StartDate", "EndDate", "TotalPrice", "Remark", "GuestName", "GuestPhone", "Status") VALUES (37, 1, 5, '2023-12-04 03:20:26.366264+00', '2023-12-06 03:20:26.366267+00', '600.00', '', 'John Doe', '1234567890', 'Confirmed');  
INSERT INTO "Bookings" ("Id", "UserId", "RoomId", "StartDate", "EndDate", "TotalPrice", "Remark", "GuestName", "GuestPhone", "Status") VALUES (38, 1, 5, '2023-12-04 03:20:28.332864+00', '2023-12-06 03:20:28.332867+00', '600.00', '', 'John Doe', '1234567890', 'Confirmed');  
INSERT INTO "Bookings" ("Id", "UserId", "RoomId", "StartDate", "EndDate", "TotalPrice", "Remark", "GuestName", "GuestPhone", "Status") VALUES (39, 1, 5, '2023-12-04 03:20:29.056146+00', '2023-12-06 03:20:29.056148+00', '600.00', '', 'John Doe', '1234567890', 'Confirmed');  
INSERT INTO "Bookings" ("Id", "UserId", "RoomId", "StartDate", "EndDate", "TotalPrice", "Remark", "GuestName", "GuestPhone", "Status") VALUES (40, 1, 3, '2023-12-04 03:22:02.904333+00', '2023-12-06 03:22:02.904336+00', '300.00', '', 'John Doe', '1234567890', 'Confirmed');