```
userModel.js
    const crypto = require("crypto");
    const mongoose = require("mongoose");
    const bcrypt = require("bcrypt");
    const jwt = require("jsonwebtoken");
    const { Schema } = mongoose;
    // define a user schema
    const userSchema = new Schema({
      name: {
        type: String,
10
        required: [true, "name field shouldn't be blank! required"],
        trim: true,
12
13
        lowercase: true,
      email: {
15
        type: String,
16
        required: [true, "email field shouldn't be blank! required"],
        unique: true,
18
        lowercase: true
20
      phone: {
        type: String,
        required: [true, "phone field shouldn't be blank! required"],
23
      password: {
25
        type: String,
26
        required: [true, "password field shouldn't be blank! required"],
        min: 6,
28
        max: 1024,
29
30
      orders: [{
31
        type: mongoose.Schema.Types.ObjectId,
32
        ref: 'Order', // Reference to the Order model for customer's orders.
33
      }],
34
      passwordResetAt: Date,
35
      passwordResetToken: String,
36
      passwordResetExpires: Date
37
    }, { versionKey: false, timestamps: true });
39
    // encrypt the password before saving the document
    userSchema.pre("save", async function (next) {
      const user = this;
42
      // check if the password field is modified or not
      if (!user.isModified('password')) {
        next();
45
46
47
      // create a salt for password
      const salt = await bcrypt.genSalt(12);
48
49
50
      // create hashed password
      user.password = await bcrypt.hash(user.password, salt);
51
52
      next();
53
   });
54
55
    userSchema.pre("save", function (next) {
      if (!this.isModified("password") | this.isNew) return next();
57
58
      this.passwordResetAt = Date.now() - 1000;
59
      next();
60
   });
61
62
    // compare password
    userSchema.methods.compare = async function (password) {
      return await bcrypt.compare(password, this.password);
65
   };
66
67
    // create token
    userSchema.methods.createToken = async function (payload) {
      return jwt.sign(
70
        payload,
        process.env.ACCESS_TOKEN,
        { expiresIn: process.env.EXPIRES_IN }
73
75
   };
76
    userSchema.methods.createPasswordResetToken = function () {
      const resetToken = crypto.randomBytes(32).toString("hex");
78
79
      this.passwordResetToken = crypto
80
        .createHash('sha256')
81
        .update(resetToken)
82
        .digest('hex');
83
84
      this.passwordResetExpires = Date.now() + 10 * 60 * 1000;
85
86
87
      return resetToken;
88
   };
89
    // compile a model
    const User = mongoose.model("User", userSchema);
    module.exports = User;
                                                                                                          口
restaurantModel.js
    const crypto = require("crypto");
    const mongoose = require("mongoose");
    const bcrypt = require("bcrypt");
    const { Schema } = require("mongoose");
    const restaurantSchema = new Schema({
      name: {
        type: String,
 8
        required: true,
10
      address: {
        type: String,
        required: true,
13
      cuisine: {
15
        type: [String], // Indian, Italian, American
16
        required: true,
18
      rating: {
19
20
        type: Number,
        default: 0, // You can set a default rating value if needed.
23
      openingTime: {
        type: String, // You can store the opening time as a string, e.g., "08:00 AM"
        required: true,
25
26
      closingTime: {
        type: String, // You can store the closing time as a string, e.g., "10:00 PM"
28
29
        required: true,
30
31
      // Authentication fields
32
      username: {
33
        type: String,
        required: true,
34
        unique: true,
35
36
      password: {
37
        type: String,
38
39
        required: true,
40
      email: {
41
42
        type: String,
43
        required: true,
        unique: true,
44
45
      role: {
46
        type: String,
        enum: ["admin", "owner", "moderator"],
48
49
      menu: [{
50
        type: mongoose.Schema.Types.ObjectId,
51
        ref: 'FoodItem', // Reference to the FoodItem model for the restaurant's menu.
52
53
      }],
    }, { versionKey: false, timestamps: true });
55
    // encrypt the password before saving the document
    restaurantSchema.pre("save", async function (next) {
      const restaurentUser = this;
58
```

```
const { ObjectId } = mongoose.Schema.Types;
    // Create order schema
    const orderSchema = new mongoose.Schema({
      user: {
        type: ObjectId,
        ref: 'User', // Reference to the Customer/user model for the customer who placed the order.
        required: true,
10
      restaurant: {
        type: ObjectId,
        ref: 'Restaurant', // Reference to the Restaurant model for the restaurant where the order was
13
        placed.
        required: true,
15
      items: [{
16
        foodItem: {
          type: ObjectId,
18
          ref: 'FoodItem', // Reference to the FoodItem model for the items in the order.
19
          required: true,
20
        },
        quantity: {
          type: Number,
23
          required: true,
        },
25
26
      price: {
        type: Number,
28
        required: true,
29
30
      orderDate: {
31
        type: Date,
32
        default: Date.now, // You can set a default order date to the current date and time.
33
34
      paid: {
36
        type: Boolean,
        default: true
37
38
   }, { versionKey: false });
40
    orderSchema.pre(/^find/, function (next) {
      this.populate({ path: "user", select: "_id name email" })
42
        .populate({ path: "restaurant", select: "_id name email address" })
43
        .populate({ path: "items.foodItem", select: "itemName price description picture" });
44
      next();
45
46 });
47
    const Order = mongoose.model('Order', orderSchema);
49
    module.exports = Order;
51
                                                                                                          百
foodItemModel.js
    const mongoose = require('mongoose');
    const foodItemSchema = new mongoose.Schema({
      itemName: {
        type: String,
        required: true,
 6
      quantity: {
 8
        type: Number,
        required: true,
10
```

// check if the password field is modified or not

restaurentUser.password = await bcrypt.hash(restaurentUser.password, salt);

restaurantSchema.methods.compare = async function (password) {

const Restaurant = mongoose.model('Restaurant', restaurantSchema);

return await bcrypt.compare(password, this.password);

if (!restaurentUser.isModified('password')) {

// create a salt for password

// create hashed password

module.exports = Restaurant;

const mongoose = require('mongoose');

const salt = await bcrypt.genSalt(12);

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orderModel.js

price: {

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16

18

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20

21

22

23

25

type: Number,

type: String,

required: true,

required: true,

module.exports = FoodItem;

}, { versionKey: false, timestamps: true });

const FoodItem = mongoose.model('FoodItem', foodItemSchema);

description: {

picture: {

required: true,

75 };

next();

next();

// compare password

});

```
29
                                                                                                           queryModel.js
    const mongoose = require('mongoose');
    const { Schema } = mongoose;
    const querySchema = new Schema({
      name: {
        type: String,
        required: true,
 8
      email: {
10
        type: String,
        required: true,
13
      message: {
        type: String,
15
        required: true,
16
    }, { versionKey: false, timestamps: true });
    const Query = mongoose.model('Query', querySchema);
    module.exports = Query;
```

type: String, // You can store the URL of the picture or the image file name.