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1. User Schema
const mongoose = require('mongoose');
const userSchema = new mongoose.Schema({
 name: {
   type: String,
   required: true
  },
  email: {
   type: String,
   required: true,
   unique: true,
   match: /^\S+@\S+\.\S+$/
  password: {
   type: String,
   required: true,
   minlength: 6
});
module.exports = mongoose.model('User', userSchema);
2. Product Schema
const productSchema = new mongoose.Schema({
  title: {
    type: String,
   required: true
 },
  description: {
   type: String,
   required: true
  },
 price: {
   type: Number,
   required: true,
   min: 0
  category: {
   type: String,
   required: true
  },
  stock: {
   type: Number,
   required: true,
   min: 0
});
module.exports = mongoose.model('Product', productSchema);
3. Order Schema
const orderSchema = new mongoose.Schema({
 userId: {
    type: mongoose.Schema.Types.ObjectId,
   ref: 'User',
   required: true
  },
  products: [{
   productId: {
      type: mongoose.Schema.Types.ObjectId,
     ref: 'Product',
     required: true
    quantity: {
      type: Number,
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required: true,
     min: 1
    }
  }],
  totalAmount: {
   type: Number,
   required: true,
   min: 0
  },
  orderDate: {
   type: Date,
   default: Date.now
  }
});
module.exports = mongoose.model('Order', orderSchema);
4. Review Schema
const reviewSchema = new mongoose.Schema({
  userId: {
   type: mongoose.Schema.Types.ObjectId,
   ref: 'User',
   required: true
 },
 productId: {
   type: mongoose.Schema.Types.ObjectId,
   ref: 'Product',
   required: true
  },
 rating: {
   type: Number,
   required: true,
   min: 1,
   max: 5
  },
  comment: {
   type: String,
    required: true
  }
});
module.exports = mongoose.model('Review', reviewSchema);
5. Course User Schema
const userSchema=new mongoose.Schema({
name:String,
email:{type:String,required:true,unique:true,match:/^\S+@\S+\.\S+$/},
role:{type:String,enum:['student','instructor'],required:true}
module.exports=mongoose.model('User', userSchema);
6. Course Schema
const courseSchema=new mongoose.Schema({
title:String,
instructorId:{type:mongoose.Schema.Types.ObjectId,ref:'User'},
category:String,
price:{type:Number,min:0},
createdAt:{type:Date,default:Date.now},
lessons:[{title:String,videoURL:String,duration:{type:Number,min:1}}]
module.exports=mongoose.model('Course',courseSchema);
7. Enrollment Schema
const enrollmentSchema=new mongoose.Schema({
userId:{type:mongoose.Schema.Types.ObjectId,ref:'User'},
courseId:{type:mongoose.Schema.Types.ObjectId,ref:'Course'},
enrolledAt:{type:Date,default:Date.now}
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});
module.exports=mongoose.model('Enrollment',enrollmentSchema);
8. Event User Schema
const userSchema=new mongoose.Schema({
name:String,
email: \{type: String, required: true, unique: true, match: / ^ S+@ S+ \. \S+$/\}, like the content of the cont
role:{type:String,enum:['organizer','attendee']}
module.exports=mongoose.model('User',userSchema);
9. Event Schema
const eventSchema=new mongoose.Schema({
title:String,
organizerId:{type:mongoose.Schema.Types.ObjectId,ref:'User'},
location: String,
startTime:Date,
endTime:Date,
capacity:{type:Number,min:1}
module.exports=mongoose.model('Event',eventSchema);
10. Booking Schema
const bookingSchema=new mongoose.Schema({
eventId: {type:mongoose.Schema.Types.ObjectId,ref:'Event'},
attendeeId:{type:mongoose.Schema.Types.ObjectId,ref:'User'},
bookingDate:{type:Date,default:Date.now}
});
module.exports=mongoose.model('Booking',bookingSchema);
11. Author Schema
const authorSchema=new mongoose.Schema({
name:String,
\verb|email: \{type: String, required: true, unique: true, match: /^\S+@\S+\.\S+\$/\}|, |
bio:String
});
module.exports=mongoose.model('Author', authorSchema);
12. Article Schema
const articleSchema=new mongoose.Schema({
title:{type:String,required:true},
content:{type:String,required:true},
authorId:{type:mongoose.Schema.Types.ObjectId,ref:'Author'},
tags:[String],
published:Boolean,
createdAt:{type:Date,default:Date.now}
module.exports=mongoose.model('Article',articleSchema);
13. Comment Schema
const commentSchema=new mongoose.Schema({
articleId:{type:mongoose.Schema.Types.ObjectId,ref:'Article'},
userName:String,
commentText:String,
postedAt:{type:Date,default:Date.now}
module.exports=mongoose.model('Comment',commentSchema);
14. Subscription User Schema
const userSchema=new mongoose.Schema({
email:{type:String,required:true,unique:true},
name:String,
signupDate: {type:Date,default:Date.now}
module.exports=mongoose.model('User',userSchema);
15. Plan Schema
const planSchema=new mongoose.Schema({
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name:String,
price:{type:Number,min:0},
features:[String],
billingCycle:{type:String,enum:['monthly','yearly']}
});
module.exports=mongoose.model('Plan',planSchema);

16. Subscription Schema
const subscriptionSchema=new mongoose.Schema({
  userId:{type:mongoose.Schema.Types.ObjectId,ref:'User'},
  planId:{type:mongoose.Schema.Types.ObjectId,ref:'Plan'},
  startDate:{type:Date,default:Date.now},
  isActive:Boolean
});
module.exports=mongoose.model('Subscription',subscriptionSchema);
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