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1.
const userSchema = {
    name: { type: String, required: true },
    email: { type: String, required: true, unique: true, match: /.+@.+\..+/ },
   password: { type: String, required: true }
};
const productSchema = {
    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 }
};
2.
const userSchema = {
    name: { type: String, required: true },
    email: { type: String, required: true, unique: true, match: /.+@.+\..+/ },
   role: { type: String, enum: ['student', 'instructor'], required: true }
};
const courseSchema = {
    title: { type: String, required: true },
```

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category: { type: String, required: true },
   price: { type: Number, required: true, min: 0 },
    createdAt: { type: Date, default: Date.now },
    lessons: [{
        title: { type: String, required: true },
        videoURL: { type: String, required: true },
        duration: { type: Number, required: true, min: 1 }
    } ]
};
3.
const userSchema = {
    name: { type: String, required: true },
    email: { type: String, required: true, unique: true, match: /.+@.+\..+/ },
   role: { type: String, enum: ['organizer', 'attendee'], required: true }
};
const eventSchema = {
    title: { type: String, required: true },
    location: { type: String, required: true },
    startTime: { type: Date, required: true },
    endTime: { type: Date, required: true },
    capacity: { type: Number, required: true, min: 1 }
};
4.
const authorSchema = {
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name: { type: String, required: true },
    email: { type: String, required: true, unique: true, match: /.+@.+\..+/ },
   bio: { type: String }
};
const articleSchema = {
    title: { type: String, required: true },
    content: { type: String, required: true },
    tags: [{ type: String }],
    published: { type: Boolean, default: false },
   createdAt: { type: Date, default: Date.now }
};
5.
const userSchema = {
    email: { type: String, required: true, unique: true, match: /.+@.+\..+/ },
    name: { type: String, required: true },
    signupDate: { type: Date, default: Date.now }
};
const planSchema = {
    name: { type: String, required: true },
   price: { type: Number, required: true, min: 0 },
    features: [{ type: String }],
   billingCycle: { type: String, enum: ['monthly', 'yearly'], required: true }
};
```