# ASSIGNMENT 2

# MongoDB

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#### 1. E-Commerce Store – Product & Orders

```
const user = {
  username: {type: String ,require: true},
  email: {type : String ,require: true , unique: true},
  password: {type: String, require: true, minLenght:8, maxLenght:20}
const product = {
  title: {type: String, require: true},
  description: {type: String, require: true},
  price: {type: Number, require: true, min: 0},
  category: {type: String, require: true},
  stock: {type: Number ,require: true}
}
const order = {
 userId: { type: mongoose.Schema.Types.ObjectId, ref: 'user', require: true },
 products: [
   productId: { type: mongoose.Schema.Types.ObjectId, ref: 'product', require: true },
   quantity: { type: Number, require: true, min: 1 }
```

```
}
],
totalAmount: { type: Number, require: true, min: 0 },
orderDate: { type: Date, default: Date.now }
}

const review = {
    userId: { type: mongoose.Schema.Types.ObjectId, ref: 'user', require: true },
    productId: { type: mongoose.Schema.Types.ObjectId, ref: 'product', require: true },
    rating: { type: Number, require: true, min: 1, max: 5 },
    comment: { type: String, require: true }
}
```

#### 2. Online Course Platform – Instructors & Students

```
const user = {
  name: { type: String, require: true },
  email: { type: String, require: true, unique: true},
  role: { type: String, require: true, enum: ['student', 'instructor'] }
}

const lesson = {
  title: { type: String, require: true },
  videoURL: { type: String, require: true },
  duration: { type: Number, require: true, min: 1 }
}

const course = {
  title: { type: String, require: true },
  instructorId: { type: mongoose.Schema.Types.ObjectId, ref: 'user', require: true },
```

```
category: { type: String, require: true },
price: { type: Number, require: true, min: 0 },
createdAt: { type: Date, default: Date.now },
lessons: [lesson]
}

const enrollment = {
  studentId: { type: mongoose.Schema.Types.ObjectId, ref: 'user', require: true },
  courseId: { type: mongoose.Schema.Types.ObjectId, ref: 'course', require: true },
  enrolledAt: { type: Date, default: Date.now }
}
```

#### 3. Event Booking System – Organizers & Attendees

```
const user = {
  name: { type: String, require: true },
  email: { type: String, require: true, unique: true},
  role: { type: String, require: true, enum: ['organizer', 'attendee'] }
}

const event = {
  title: { type: String, require: true },
  organizerId: { type: mongoose.Schema.Types.ObjectId, ref: 'user', require: true },
  location: { type: String, require: true },
  startTime: { type: Date, require: true },
  endTime: { type: Date, require: true },
  capacity: { type: Number, require: true, min: 1 }
}
```

```
eventId: { type: mongoose.Schema.Types.ObjectId, ref: 'event', require: true },
attendeeId: { type: mongoose.Schema.Types.ObjectId, ref: 'user', require: true },
bookingDate: { type: Date, default: Date.now }
}
```

### 4. Blogging Platform – Authors & Articles

```
const author = {
 name: { type: String, require: true },
 email: { type: String, require: true, unique: true},
 bio: { type: String }
const article = {
 title: { type: String, require: true },
 content: { type: String, require: true },
 authorld: { type: mongoose.Schema.Types.ObjectId, ref: 'author', require: true },
 tags: { type: [String] },
 published: { type: Boolean, require: true },
 createdAt: { type: Date, default: Date.now }
const comment = {
 articleId: { type: mongoose.Schema.Types.ObjectId, ref: 'article', require: true },
 userName: { type: String, require: true },
 commentText: { type: String, require: true },
 postedAt: { type: Date, default: Date.now }
```

## 5. Subscription App – Users & Plans

```
const user = {
 email: { type: String, require: true, unique: true},
 name: { type: String, require: true },
 signupDate: { type: Date, require: true }
}
const plan = {
 name: { type: String, require: true },
 price: { type: Number, require: true, min: 0 },
 features: { type: [String], require: true },
 billingCycle: { type: String, require: true, enum: ['monthly', 'yearly'] }
}
const subscription = {
 userId: { type: mongoose.Schema.Types.ObjectId, ref: 'user', require: true },
 planId: { type: mongoose.Schema.Types.ObjectId, ref: 'plan', require: true },
 startDate: { type: Date, require: true },
 isActive: { type: Boolean, require: true }
}
```