```
1. E-Commerce Store – Product & Orders
// User Schema
const user = {
 name: { type: String, required: true },
 email: {
  type: String,
  required: true,
  unique: true,
 },
 password: { type: String, required: true },
 createdAt: { type: Date, default: Date.now }
};
// Product Schema
const product = {
 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 },
 createdAt: { type: Date, default: Date.now }
};
// Order Schema
const order = {
 userId: { type: ObjectId, required: true, ref: 'User' },
 products: [{
  productId: { type: ObjectId, required: true, ref: 'Product' },
  quantity: { type: Number, required: true, min: 1 }
 }],
 totalAmount: { type: Number, required: true, min: 0 },
 orderDate: { type: Date, default: Date.now },
 status: { type: String, enum: ['pending', 'shipped', 'delivered', 'cancelled'] }
};
// Review Schema
const review = {
 userId: { type: ObjectId, required: true, ref: 'User' },
 productId: { type: ObjectId, required: true, ref: 'Product' },
 rating: { type: Number, required: true, min: 1, max: 5 },
 comment: {type: String},
 createdAt: {type: Date, default: Date.now }
};
2. Online Course Platform – Instructors & Students
// User Schema
const user = {
 name: { type: String, required: true },
 email: {
  type: String,
  required: true,
  unique: true
 role: { type: String, required: true, enum: ['student', 'instructor'] },
```

```
createdAt: { type: Date, default: Date.now }
};
// Course Schema
const course = {
 title: { type: String, required: true },
 instructorId: { type: ObjectId, required: true, ref: 'User' },
 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 } // in minutes
 }]
};
// Enrollment Schema
const enrollment = {
 userId: { type: ObjectId, required: true, ref: 'User' },
 courseId: { type: ObjectId, required: true, ref: 'Course' },
 enrolledAt: { type: Date, default: Date.now },
 progress: { type: Number, default: 0, min: 0, max: 100 }
};
3. Event Booking System – Organizers & Attendees
// Author Schema
const author = {
 name: { type: String, required: true },
 email: {
  type: String,
  required: true,
  unique: true,
 bio: { type: String },
 createdAt: { type: Date, default: Date.now }
};
// Article Schema
const article = {
 title: { type: String, required: true },
 content: { type: String, required: true },
 authorId: { type: ObjectId, required: true, ref: 'Author' },
 tags: [{ type: String }],
 published: { type: Boolean, default: false },
 createdAt: { type: Date, default: Date.now },
 updatedAt: { type: Date }
};
// Comment Schema
const comment = {
 articleId: { type: ObjectId, required: true, ref: 'Article' },
 userName: { type: String, required: true },
 commentText: { type: String, required: true },
 postedAt: { type: Date, default: Date.now }
};
```

## 4. Blogging Platform – Authors & Articles

```
// Author Schema
const author = {
 name: { type: String, required: true },
 email: {
  type: String,
  required: true,
  unique: true,
 bio: { type: String },
 createdAt: { type: Date, default: Date.now }
};
// Article Schema
const article = {
 title: { type: String, required: true },
 content: { type: String, required: true },
 authorId: { type: ObjectId, required: true, ref: 'Author' },
 tags: [{ type: String }],
 published: { type: Boolean, default: false },
 createdAt: { type: Date, default: Date.now },
 updatedAt: { type: Date }
};
// Comment Schema
const comment = {
 articleId: { type: ObjectId, required: true, ref: 'Article' },
 userName: { type: String, required: true },
 commentText: { type: String, required: true },
 postedAt: { type: Date, default: Date.now }
};
5. Subscription App - Users & Plans
// User Schema
const user = {
 name: { type: String, required: true },
 email: {
  type: String,
  required: true,
  unique: true
 signupDate: { type: Date, default: Date.now }
};
// Plan Schema
const plan = {
 name: { type: String, required: true },
 price: { type: Number, required: true, min: 0 },
 features: [{ type: String }],
 billingCycle: { type: String, required: true, enum: ['monthly', 'yearly'] },
 createdAt: { type: Date, default: Date.now }
};
// Subscription Schema
```

```
const subscription = {
  userId: { type: ObjectId, required: true, ref: 'User' },
  planId: { type: ObjectId, required: true, ref: 'Plan' },
  startDate: { type: Date, required: true },
  endDate: { type: Date },
  isActive: { type: Boolean, default: true }
};
```