

ASSIGNMENT-2 (MongoDb)

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Section =C

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  
  }  
};
```