MONGODB Assignment – 2 Solution

1. E-Commerce Store

```
const user = {
  name: "string",
  email: {
    type: "string",
    unique: true,
  },
  password: {
    type:"string",
    minLength:8,
    maxLength:20
  }
};

const product = {
  title: "string",
  description: "string",
  price: {
    type: "number",
    min: 0,
  },
  category: "string",
  stock: {
    type: "number",
    min: 0,
  },
};
```

```javascript
const order = {
  userId: "ObjectId",
  products: [
    {
      productId: "ObjectId",
      quantity: {
        type: "number",
        min: 1,
      },
    },
  ],
  totalAmount: {
    type: "number",
    min: 0,
  },
  orderDate: "Date",
};

const review = {
  userId: "ObjectId",
  productId: "ObjectId",
  rating: {
    type: "number",
    min: 1,
    max: 5,
  },
  comment: "string",
};
```

2. Online Course Platform

js

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```js
const courseUser = {
  name: "string",
  email: {
    type: "string",
    unique: true
  },
  role: {
    type: "string",
    enum: ["student", "instructor"],
  },
};


const course = {
  title: "string",
  instructorId: "ObjectId",
  category: "string",
  price: {
    type: "number",
    min: 0,
  },
  createdAt: "Date",
  lessons: [
    {
      title: "string",
      videoURL: "string",
```

```js
    duration: {
      type: "number",
      min: 1,
    },
  },
 ],
};


const enrollment = {
  userId: "ObjectId",
  courseId: "ObjectId",
  enrollDate: "Date",
};
```

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3. Event Booking System

js

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```js
const eventUser = {
  name: "string",
  email: {
    type: "string",
    unique: true
  },
  role: {
    type: "string",
    enum: ["organizer", "attendee"],
  },
};
```

```js
const event = {
  title: "string",
  organizerId: "ObjectId",
  location: "string",
  startTime: "Date",
  endTime: "Date",
  capacity: {
    type: "number",
    min: 1,
  },
};
```

```js
const booking = {
  eventId: "ObjectId",
  attendeeId: "ObjectId",
  bookingDate: "Date",
};
```

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4. Blogging Platform

js

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```js
const author = {
  name: "string",
  email: {
    type: "string",
    unique: true
  },
  bio: "string",
};
```

```js
const article = {
  title: "string",
  content: "string",
  authorId: "ObjectId",
  tags: ["string"],
  published: "boolean",
  createdAt: "Date",
};


const comment = {
  articleId: "ObjectId",
  userName: "string",
  commentText: "string",
  postedAt: "Date",
};
```

5. Subscription App

js

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```js
const subscriptionUser = {
  email: {
    type: "string",
    unique: true,
  },
  name: "string",
  signupDate: "Date",
};
```

```javascript
const plan = {
  name: "string",
  price: {
    type: "number",
    min: 0,
  },
  features: ["string"],
  billingCycle: {
    type: "string",
    enum: ["monthly", "yearly"],
  },
};

const subscription = {
  userId: "ObjectId",
  planId: "ObjectId",
  startDate: "Date",
  isActive: "boolean",
};
```