

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,  
  },  
};
```

```
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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```
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",
```

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

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

3. Event Booking System

js

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

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

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

4. Blogging Platform

js

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

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

```
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",  
};
```