ASSIGNMENT-2  
  
name : vartul arora

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 }

};