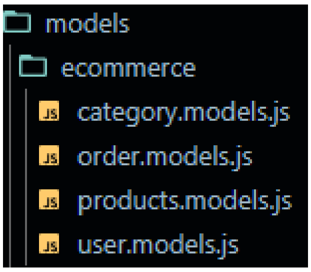
Ecommerce Data Modelling

- `models` directory structure



```
models
    ecommerce
        category.models.js
        order.models.js
        products.models.js
        user.models.js
```

- `user.models.js`

```
import mongoose from 'mongoose';

const userSchema = new mongoose.Schema(
{
    username: {
        type: String,
        required: true,
        unique: true,
        lowercase: true,
    },
    email: {
        type: String,
        required: true,
        unique: true,
        lowercase: true,
    },
    password: {
        type: string,
        required: true,
    },
},
{ timestamps: true }
);

export const User = mongoose.model('User', userSchema);
```

- `category.models.js`

```
import mongoose from 'mongoose';

const categorySchema = new mongoose.Schema(
{
    name: {
        type: String,
        required: true,
    },
},
{ timestamps: true }

);
```

```
export const Category = mongoose.model('Category', categorySchema);
```

- products.models.js

```
import mongoose from 'mongoose';

const productSchema = new mongoose.Schema(
{
    description: {
        required: true,
        type: String,
    },
    name: {
        required: true,
        type: String,
    },
    productImage: {
        type: String,
    },
    price: {
        type: Number,
        default: 0,
    },
    stock: {
        default: 0,
        type: Number,
    },
    category: {
        type: mongoose.Schema.Types.ObjectId,
        ref: 'Category',
        required: true,
    },
    owner: {
        type: mongoose.Schema.Types.ObjectId,
        ref: 'User',
    },
},
{ timestamps: true }
);

export const Product = mongoose.model('Product', productSchema);
```

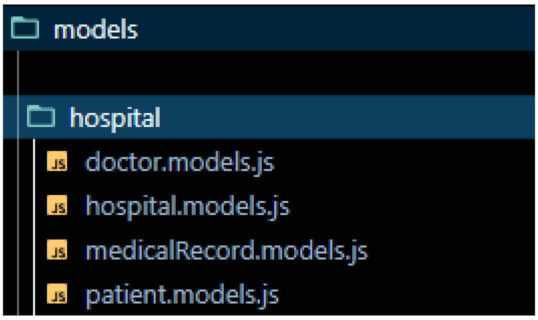
- order.models.js

```
import mongoose from 'mongoose';

const orderItemSchema = new mongoose.Schema({
productId: {
    type: mongoose.Schema.Types.ObjectId,
    ref: 'Product',
},
quantity: {
    type: Number,
    required: true,
},
});
```

```
const orderSchema = new mongoose.Schema(
{
    orderPrice: {
        type: Number,
        required: true,
    },
    customer: {
        type: mongoose.Schema.Types.ObjectId,
        ref: 'User',
    },
    orderItems: {
        type: [orderItemSchema],
    },
    address: {
        type: String,
        required: true,
    },
    status: {
        type: String,
        enum: ['PENDING', 'CANCELLED', 'DELIVERED'],
        default: 'PENDING',
    },
},
{ timestamps: true }
);

export const Order = mongoose.model('Order', orderSchema);
```

Hospital Data Modelling

- `models` directory structure



```
models
  hospital
    doctor.models.js
    hospital.models.js
    medicalRecord.models.js
    patient.models.js
```

- `hospital.models.js`

```
import mongoose from 'mongoose';

  const hospitalSchema = new mongoose.Schema(
  {
      name: {
          type: String,
          required: true,
      },
      addressLine1: {
          type: String,
          required: true,
      },
        addressLine2: {
            type: String,
        },
        city: {
            type: String,
            required: true,
        },
        pincode: {
            type: String,
            required: true,
        },
        specializedIn: [
        {
            type: String,
        },
        ],
    },
    { timestamps: true }
    );

    export const Hospital = mongoose.model('Hospital', hospitalSchema);
```

- doctor.models.js

```
import mongoose from 'mongoose';

const doctorSchema = new mongoose.Schema(
  {
    name: {
      type: String,
      required: true,
    },
    salary: {
      type: String,
      required: true,
    },
    qualification: {
      type: String,
      required: true,
    },
    experienceInYears: {
      type: Number,
      defaut: 0,
    },
    worksInHospitals: [
      {
        type: mongoose.Schema.Types.ObjectId,
        ref: 'Hospital',
      },
    ],
  },
  { timestamps: true }
);

export const Doctor = mongoose.model('Doctor', doctorSchema);
```

- patient.models.js

```
import mongoose from 'mongoose';

const patientSchema = new mongoose.Schema(
  {
    name: {
      type: String,
      required: true,
    },
    diagonsedWith: {
      type: String,
      required: true,
    },
    address: {
      type: String,
      required: true,
    },
    age: {
      type: Number,
      required: true,
    },
    bloodGroup: {
      type: String,
      required: true,
    },
    gender: {
      type: String,
      enum: ['M', 'F', 'O'],
      required: true,
    },
    admittedIn: {
      type: mongoose.Schema.Types.ObjectId,
      ref: 'Hospital',
    },
  },
  { timestamps: true }
);

export const Patient = mongoose.model('Patient', patientSchema);
```

- medicalRecord.models.js

```
import mongoose from 'mongoose';

const medicalRecordSchema = new mongoose.Schema({}, { timestamps: true });

export const MedicalRecord = mongoose.model(
  'MedicalRecord',
  medicalRecordSchema
);
```