Sample data json

Prisma ORM: Open source Node.js and TypeScript ORM with a readable data model, automated migrations, type-safety, and auto-completion - https://www.prisma.io/

Users

```
model User {
 id
                  String
                              @id @default(auto()) @map("_id") @db.ObjectId
 firstname
                              @default("aaa")
                  String
                              @default("bbb")
                  String
 lastname
 password
                  String
                  String
 username
 avatar
                  String?
 public id
                  String?
 birth
                  String?
                  String?
 sex
                  String?
 phone
 email
                  String
                              @unique
                              @default(STUDENT)
 role
                  Role
                              @default("")
 updatedAt
                  String
 createdAt
                  String
                              @default("")
                          @db.ObjectId
 courseIDs
              String[]
  courses
              Course[]
                          @relation(fields: [courseIDs], references: [id])
 quizResults QuizResult @relation(fields: [quizResultsId], references: [id])
                          @unique @db.ObjectId
 quizResultsId String
 quizResults QuizResult[]
  courseResults CourseResult[]
}
```

Relation:

- One to many: User QuizResult
- One to many: User CourseResult

```
[
    "id": "1",
    "firstname": "John",
    "lastname": "Doe",
    "password": "hashed_password",
    "username": "j.doe",
    "email": "john@example.com",
    "role": "STUDENT"
},
{
    "id": "2",
```

```
"firstname": "Jane",
    "lastname": "Smith",
    "password": "hashed_password",
    "username": "j.smith",
    "email": "jane@example.com",
    "role": "TEACHER"
 },
   "id": "3",
   "firstname": "Adam",
    "lastname": "Swift",
    "password": "hashed_password",
    "username": "a.swift",
    "email": "adam@example.com",
    "role": "ADMIN"
 }
]
```

Required fields: firstname, lastname, password (hashed based on bcryptjs), email, role (default STUDENT)

Category

```
model Category {
  id String @id @default(auto()) @map("_id") @db.ObjectId
  name String @default("")
  courses Course[]
}
```

Relation

• One to many: Category - Course

Semester

```
model Semester {
  id String @id @default(auto()) @map("_id") @db.ObjectId
```

```
description String
  start_date DateTime
  end_date DateTime
  courses Course[]
}
```

Relation

• One to many: Semester - Course

```
[
    "id": "1",
    "description": "Spring Semester",
    "start_date": "2024-01-01T00:00:00Z",
    "end_date": "2024-06-30T23:59:59Z"
},
{
    "id": "2",
    "description": "Fall Semester",
    "start_date": "2024-08-01T00:00:00Z",
    "end_date": "2024-12-31T23:59:59Z"
}
]
```

Course

```
model Course {
 id
             String
                             @id @default(auto()) @map("_id") @db.ObjectId
 title
             String
 description String
             String?
 image
 public_id
             String?
 course_id String
 VideoSections VideoSection[]
 DocumentSections DocumentSection[]
                             @relation(fields: [categoryID], references: [id])
 category
             Category
                             @db.ObjectId
 categoryID String
                                  @relation(fields: [semesterId], references:
 semester
                Semester
[id])
 semesterId
                String
                                @db.ObjectId
                             @relation(fields: [usersId], references: [id])
 users
             User[]
             String[]
                             @db.ObjectId
 usersId
 courseResults CourseResult[]
}
```

Relation

- Many to many: Course User
- One to many: Course CourseResult

```
[
    "id": "1",
    "title": "Introduction to Algebra",
    "description": "A beginner's guide to algebraic concepts.",
    "categoryID": "1",
    "semesterId": "1"
},
    {
        "id": "2",
        "title": "Biology 101",
        "description": "An introductory course to basic biology principles.",
        "categoryID": "2",
        "semesterId": "2"
}
```

VideoSection

```
model VideoSection {
                             @id @default(auto()) @map("_id") @db.ObjectId
 id
             String
 title
             String
 description String?
 videos
          Video[]
             String
                             @map("course_id") @db.ObjectId
 courseId
                             @relation(fields: [courseId], references: [id])
 course
             Course
}
```

Relation:

• One to many: VideoSection - Video

```
[
    "id": "1",
    "title": "Basic Algebraic Equations",
    "courseId": "1"
},
{
    "id": "2",
    "title": "Cell Structure",
    "courseId": "2"
```

```
}
```

DocumentSection

```
model DocumentSection {
 id
             String
                             @id @default(auto()) @map("_id") @db.ObjectId
 title
             String
 content
             String?
 quiz
             Quiz[]
 documentLink DocumentLink[]
                             @map("course_id") @db.ObjectId
 courseId
             String
 course
             Course
                             @relation(fields: [courseId], references: [id])
}
```

Relation:

- One to many: DocumentSection Document
- One to many: DocumentSection DocumentLink

```
[
    "id": "1",
    "title": "Solving Linear Equations",
    "courseId": "1"
    },
    {
        "id": "2",
        "title": "DNA Structure",
        "courseId": "2"
    }
]
```

Video

```
model Video {
                                       @id @default(auto()) @map("_id")
  id
                      String
@db.ObjectId
  title
                      String
  description
                      String?
  url
                      String
  videoSection
                      VideoSection
                                       @relation(fields: [videoSectionId],
references: [id])
  videoSectionId
                                       @db.ObjectId
                      String
}
```

```
[
    "id": "1",
    "title": "Introduction to Linear Equations",
    "url": "https://example.com/video1",
    "videoSectionId": "1"
},
    {
        "id": "2",
        "title": "Prokaryotic Cells",
        "url": "https://example.com/video2",
        "videoSectionId": "2"
}
]
```

DocumentLink

```
model DocumentLink {
  id
                                      @id @default(auto()) @map("_id")
                     String
@db.ObjectId
 title
                     String
 description
                     String?
 url
                     String
  documentSection
                     DocumentSection @relation(fields: [documentSectionId],
references: [id])
  documentSectionId String
                                      @db.ObjectId
}
```

```
[
    "id": "1",
    "title": "Solving Quadratic Equations Worksheet",
    "url": "https://example.com/worksheet1",
    "documentSectionId": "1"
},
    {
        "id": "2",
        "title": "Cell Biology Lecture Notes",
        "url": "https://example.com/lecture_notes1",
        "documentSectionId": "2"
}
```

Quiz

```
model Quiz {
 id
                            @id @default(auto()) @map("_id") @db.ObjectId
             String
 title
            String
 description String?
 start_date DateTime?
 end_date DateTime?
 time_limit Int?
 factor Float
                            @default(0)
 questions Question[]
 documentSection
                  DocumentSection
                                         @relation(fields: [documentSectionId],
references: [id])
 documentSectionId String
                              @db.ObjectId
 quizResults QuizResult[]
}
```

Relation:

• One to many: Quiz - Question

```
"id": "1",
   "title": "Algebra Quiz",
   "description": "Test your knowledge on algebraic equations.",
    "start_date": "2024-04-10T00:00:00Z",
    "end_date": "2024-04-20T23:59:59Z",
    "time_limit": 60,
   "documentSectionId": "1"
 },
   "id": "2",
    "title": "Biology Quiz",
    "description": "Test your understanding of basic biology concepts.",
    "start_date": "2024-05-10T00:00:00Z",
    "end date": "2024-05-20T23:59:59Z",
    "time limit": 45,
   "documentSectionId": "2"
 }
]
```

Question

```
quizId String @db.ObjectId
}
```

```
[
    "id": "1",
    "content": "What is the solution to 2x + 3 = 7?",
    "options": ["x = 2", "x = 3", "x = 4", "x = 5"],
    "answer": "x = 2",
    "quizId": "1"
    },
    {
        "id": "2",
        "content": "What is the powerhouse of the cell?",
        "options": ["Nucleus", "Mitochondria", "Golgi apparatus", "Endoplasmic reticulum"],
        "answer": "Mitochondria",
        "quizId": "2"
    }
]
```

QuizResult

```
model QuizResult {
                             @id @default(auto()) @map("_id") @db.ObjectId
 id
             String
             Float
                             @default(0)
 score
                             @db.ObjectId
 userId
             String
 user
             User
                             @relation(fields: [userId], references: [id])
 quiz
             Quiz
                             @relation(fields: [quizId], references: [id])
 quizId
                             @db.ObjectId
             String
                             @default(now())
 createdAt DateTime
                             @default(now())
 updatedAt DateTime
}
```

```
[
    "id": "1",
    "score": 85.5,
    "userId": "1",
    "quizId": "1"
},
    {
        "id": "2",
        "score": 92.0,
        "userId": "2",
        "quizId": "2"
```

```
}
]
```

CourseResult

```
model CourseResult {
                             @id @default(auto()) @map("_id") @db.ObjectId
 id
             String
 score_array Float[]
                             @default([0, 0, 0, 0])
                             @default(0)
 average_score Float
                             @db.ObjectId
 userId
             String
                             @relation(fields: [userId], references: [id])
 user
             User
            Course
                             @relation(fields: [courseId], references: [id])
 course
 courseId String
                             @db.ObjectId
 createdAt DateTime
                             @default(now())
                             @default(now())
 updatedAt DateTime
}
```

```
[
    "id": "1",
    "score_array": [75, 80, 85, 90],
    "average_score": 82.5,
    "userId": "1",
    "courseId": "1"
},
{
    "id": "2",
    "score_array": [80, 85, 90, 95],
    "average_score": 87.5,
    "userId": "2",
    "courseId": "2"
}
```