

IT-NSQ1Y-S22

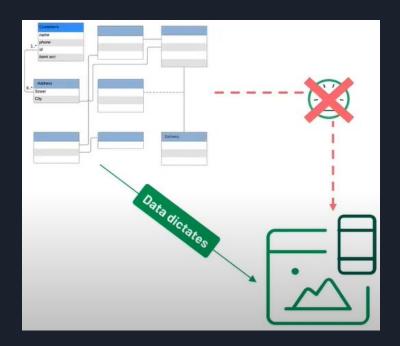
Jordi Lazo

Explain the options for modelling data in MongoDB and compare it to ER-modelling

Modeling for RDBMS

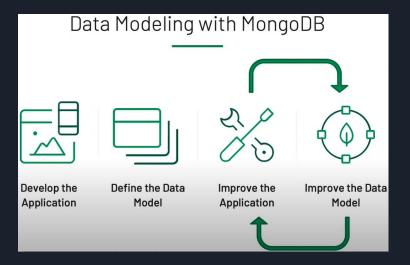
1. Step 1: Define Schema.

2. Step 2: Develop the application and queries.



Modeling for MongoDB

- Many design options
- Designed for the usage pattern
- Data model evolution is easy
- Can evolve without any downtime



Link vs Embedded: One-to-One Link

Link: look up additional information in another collections

```
Book = {
    "_id": 1,
    "title": "Harry Potter and the Methods of Rationality",
    "slug": "9781857150193-hpmor",
    "author": 1,
    // more fields follow...
}

Author = {
    "_id": 1,
    "firstName": "Eliezer",
    "lastName": "Yudkowsky"
    "book": 1,
    // more fields follow...
}
```

Link vs Embedded: One-to-One Embedded

Embedded: we have a one-parent document and one child document for the parent

```
Book = {
    "_id": 1,
    "title": "Harry Potter and the Methods of Rationality",
    "slug": "9781857150193-hpmor",
    "author": {
        "firstName": "Eliezer",
        "lastName": "Yudkowsky"
    },
    // more fields follow...
}
```

Many-to-Many: Arrays on either side

Many to many: two entities inside a document can have multiple relations.

Present your hand-in to course assignment 3 with a focus on querying the data