How to Design and Implement MongoDB Database (Query First)

Steps to Model NoSQL Database

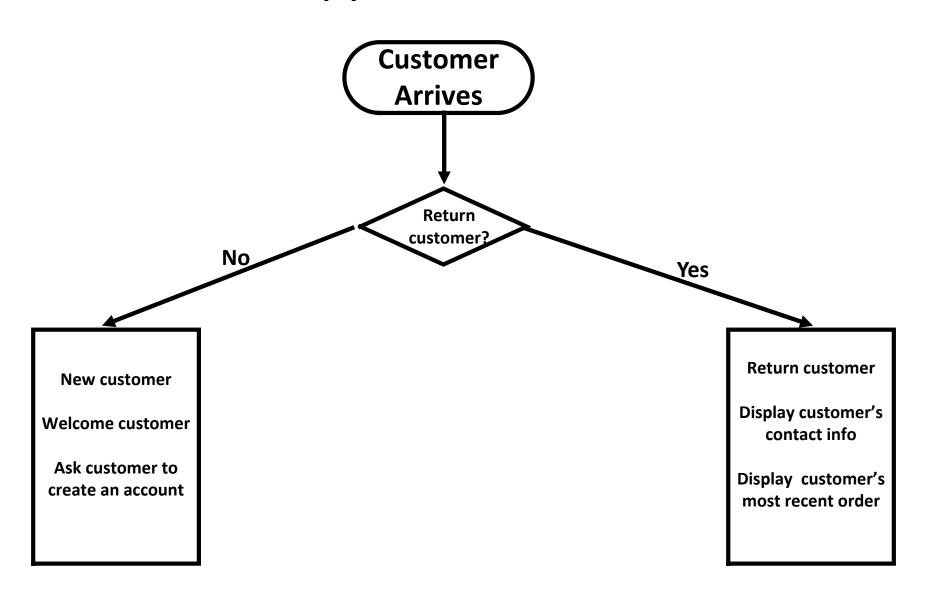
- 1) Create application workflow
- 2) Design screen mock-ups
- 3) Identify data displayed by each screen

- **Conceptual Modelling**
 - Logical Modelling

- 4) Describe Queries to get the needed data
- 5) Create an Entity Relationship Diagram (ERD) based on the queries
- 6) Pay attention to physical details, such as partition keys
- 7) Implement database based on the ERD

Physical Modelling

Partial Application Workflow



Screen Mock-up for Return Customer

Customer ID:

First name:

Last name:

Phone:

Email address:

Most Recent Order

ID:

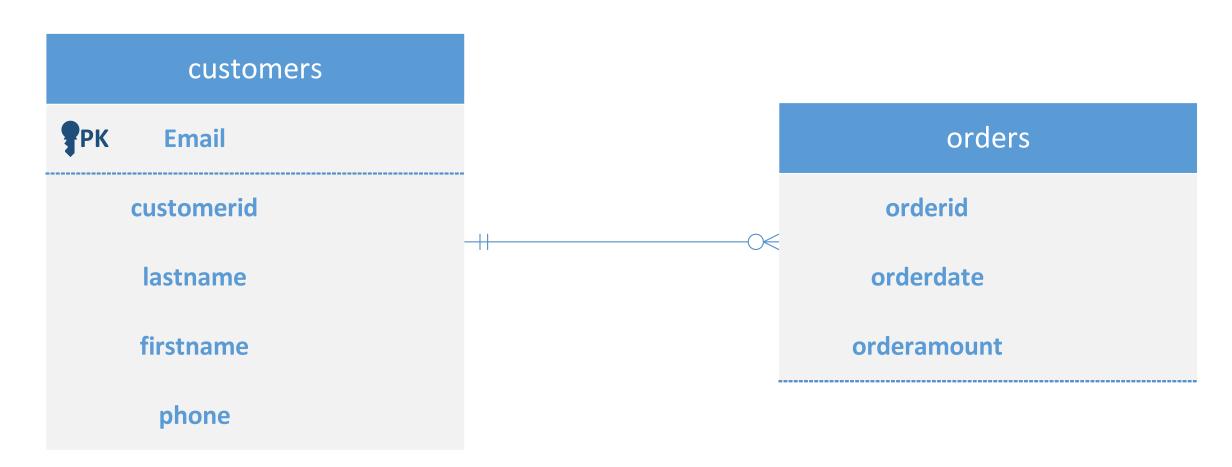
Date:

Amount:

Query Description

- Retrieve customer's contact info by customer's email
- Retrieve customer's most recent order by customer's id

Partial ERD - MongoDB



Document Implementation - MongoDB