**Pick a Scenario and create a CRUD application for it in.**

A CRUD operation in MongoDB describes a user interface that allows users to view, search, and modify data in a database.Modifications to MongoDB documents are performed by connecting to a server, querying the correct documents, and changing the settings before sending them back to the database. CRUD is a data-oriented, HTTP action verb-based process.

**CRUD stands for Create, Read, Update, and Delete**.

* **Create** - inserts new documents into the MongoDB database.

| **Method** |
| --- |
| **db.collection.insertOne()** |
| **db.collection.insertMany()** |
| **db.createCollection()** |

| **Method** |
| --- |
| **db.collection.find()** |

* **Read** operation is used to retrieve documents from a database.
* **Update** operation modifies existing documents in the database.

| **Method** |
| --- |
| **db.collection.updateOne()** |
| **db.collection.updateMany()** |
| **db.collection.replaceOne()** |

* **Delete** operation removes documents from a database.

| **Method** |
| --- |
| **db.collection.deleteOne()** |
| **db.collection.deleteMany()** |

**1. Connect to Your MongoDB Database:**

* Launch MongoDB Compass.
* Enter your connection details like password to connect to Mongocompass.

A screenshot of a computer

Description automatically generated

* Connect to your cluster with connecting with connection string to your MongoDB Compass

*mongodb+srv://anushaedara77:<password>@cluster0.1y5mhzn.mongodb.net/*

* Give the correct password and connect to MongoDB compass.
* It should be connected.

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Now performing the CRUD operations:

The scenario inserted here is buying groceries

**CREATE**

* **Insert Documents**: In MongoDB, the insert\_one() and insert\_many() methods are used to insert documents into collections.
* db.tasks.insertOne({ ... }): This command inserts a new document into the tasks collection
* Insert\_one method is used to insert the document.
* The groceries field is added to the document, and it contains an array of groceries items such as "eggs", "milk", "bread", "vegetables", and "fruits".

**db.collection.insertOne():**

The db.collection.insertOne() method in MongoDB is used to insert a single document into a specified collection within a database.

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**db.collection.insertMany():** The insertMany() allows you to insert multiple documents into a collection.

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**Read:**

* Retrieve all tasks or filter based on specific criteria

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A computer screen shot of text

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For the above

The find() method to retrieve all documents from the tasks collection and the findOne() method to retrieve a single document.

**Update:**

* Modify existing task documents.
* Example: Mark a task as completed:

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* We use the updateOne() method to update a single document in the tasks collection.
* It will update the first document in the tasks collection where the task field is equal to "Buy groceries" by setting the completed field to true

UpdateMany:

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* Update multiple documents in the collection
* Find all documents with the specified task name
* We use the updateMany() method to update multiple documents in the tasks collection.

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* Replace a single document in the collection.
* Define the new document to replace the matched one.

Deleteone

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Deletemany

A computer screen shot of a computer code

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