

# CRUD Operations Examples

You said:



2. Interact with Data: Use the methods provided by the SDK to make CRUD operations:

- ``db.collection('...').add({...})`` to create.
- ``db.collection('...').doc('...').get()`` to read.
- ``db.collection('...').doc('...').update({...})`` to update.
- ``db.collection('...').doc('...').delete()`` to delete.

explain with examples in simple

ChatGPT said:



The image you uploaded outlines how to use a Software Development Kit (SDK) to perform basic CRUD (Create, Read, Update, Delete) operations on a database collection. Below is a simple explanation of each operation with examples:

## 1. Create (add data to the database)

- **Syntax:** ``db.collection('...').add({...})``
- **Example:**

javascript

```
db.collection('users').add({  
  name: 'John Doe',  
  email: 'john.doe@example.com'  
});
```

This example adds a new user to the "users" collection with a name and email address.

## 2. Read (retrieve data from the database)

- **Syntax:** ``db.collection('...').doc('...').get()``
- **Example:**

javascript

```
db.collection('users').doc('userId123').get().then(doc => {  
  console.log(doc.data());  
});
```

This example retrieves the data for a specific user (with ID `userId123`) from the "users" collection and prints it to the console.

### 3. Update (modify existing data in the database)

- **Syntax:** `db.collection('...').doc('...').update({...})`
- **Example:**

javascript

```
db.collection('users').doc('userId123').update({
  email: 'new.email@example.com'
});
```

This example updates the email address of the user with ID `userId123` in the "users" collection.

### 4. Delete (remove data from the database)

- **Syntax:** `db.collection('...').doc('...').delete()`
- **Example:**

javascript

```
db.collection('users').doc('userId123').delete();
```

This example deletes the user with ID `userId123` from the "users" collection.

### Summary:

- **Create:** Adds a new document to the collection.
- **Read:** Retrieves a document's data based on its ID.
- **Update:** Modifies existing data in a document.
- **Delete:** Removes a document from the collection.

These operations are fundamental to managing data in a database using the SDK, typically used in cloud services like Firebase.

Is this conversation helpful so far?

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