

### Get all from collection

```
this.db.collection(collection)
  .valueChanges()
  .subscribe();
```

Returns the current state of the collection (observable).

Is great for only displaying data, we don't receive any metadata and id.

### Querying snapshotChanges vs stateChanges

```
this.db.collection(collection)
  .valueChanges().subscribe(
    snaps => {
      const collection =
snaps.map( snap => {
        return {
          id:
snap.payload.doc.id,
          ...s -
na.payload.doc.data()
        }
      }
    }
  );
```

Receive document snapshot with type and payload. Returns an observable with all data.

### Querying snapshotChanges vs stateChanges

```
this.db.collection(collection)
  .stateChanges().subscribe(
    snaps => {
      const collection =
snaps.map( snap => {
        return {
          id:
snap.payload.doc.id,
          ...s -
na.payload.doc.data()
        }
      }
    }
  );
```

Receive document snapshot with type and payload. Returns an observable with only updated data (live updated).

### Querying with ordering

```
this.db.collection(collection,
  ref => {
    return ref.orderBy( param -
am).where( param, " ==", what)
  })
  .snapshotChanges()...
...
.where( param, " == , >, <= or
any", what)...
.where( param, " array- con -
tains", what)...
.startAt( number ).endAt( n -
umber)... (first element
included)
.startAfter( number ).endA -
t( number)... ( first element is
not included)
```

Ordered by params.

### Update collection

```
this.db.doc(collection/id).set(changes)...
this.db.doc( collection/id).update -
(changes)...
```

set - update the collection or create one if not exist

update - only update the collection

### Batch collection

```
const fRef =
this.db.doc(collection/id).ref;
const oRef = this.db.doc( -
collection/id).ref;
const batch = this.db.firestore.
batch();
batch.update( fRef, { updates
});
...
const batch$ = of(batch.com -
mit());
batch$.subscribe();
```

Updates documents by its ref. Up to 500 data operation in the same batch.

### Delete collection

```
const d = this.db
  .collection( collection);
return d.doc( id).delete();
```

Delete document by id

### Simple file upload

```
private storage:
  AngularFireStorage;
...
upload( event ) {
  const file: File = event.t -
arget.files[0];
  const path =collec tio n/i d/
filename;
  const task = this.s tor -
age.upload( path, file);
  tas k.s nap sho tCh ang -
es( ).s ubsc ribe();
  ...
  task.p erc ent age Ch ang es() -
get current upload percentage
```

### File upload info and metadata

```
profileUrl: Observable<string |
null>;
    constructor( private
storage: AngularFireStorage)
{
    const ref = this.storage.ref('users/avatars/ast.jpg');
    this.profileUrl = ref.getDownloadURL();
}
...
meta: Observable<any>;
    constructor( private
storage: AngularFireStorage)
{
    const ref = this.storage.ref('users/avatars/ast.jpg');
    this.meta = ref.getMetadata();
}
...
uploadFile(event) {
    const file = event.target.files[0];
    const filePath = 'name-your-file-path-here';
    const ref = this.storage.ref(filePath);
    const task = ref.upload(file, { customMetadata: {
blah: 'blah' } });
}
```



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Published 22nd April, 2019.  
Last updated 22nd April, 2019.  
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