

배달 앱(패캠마트)

5 데이터베이스 설계하기

Firestore (Cloud Firestore)

NoSQL

1. Cloud Firestore
2. MongoDB & Realm

- Documents : A document is a lightweight record that contains fields, which map to values. Each document is identified by a name.
- Collections: Documents live in collections, which are simply containers for documents.
- **여기서 알 수 있는것 !**
 - **컬렉션안에는 도큐먼트가, 도큐먼트 안에 또 컬렉션이 포함될 수 있음.**

Firestore

컬렉션 설계하기

- 1.사용자 정보 >> users
- 2.카테고리 정보 >> category
- 3.제품 정보 >> products
- 4.장바구니 >> cart

컬렉션과 문서의 구성으로 설계를 진행

Firestore

컬렉션 설계하기

1.사용자 정보

- 이메일
- Uid

<div> > users > uPBqA7o7plyVeuL77mqC </div>		
<div> Root </div>	<div> users </div>	<div> uPBqA7o7plyVeuL77mqC </div>
<div>+ Start collection</div>	<div>+ Add document</div>	<div>+ Start collection</div>
<div>cart</div>	<div>uPBqA7o7pIyVeuL77mqC</div>	<div>+ Add field</div>
<div>category</div>		<div>email: "fc@gmail.com" (string) </div>
<div>products</div>		<div>uid: "m6uGGMnfsszRLAkNUQyKxthoWr...(string) </div>
<div>users</div>		

Firestore

컬렉션 설계하기

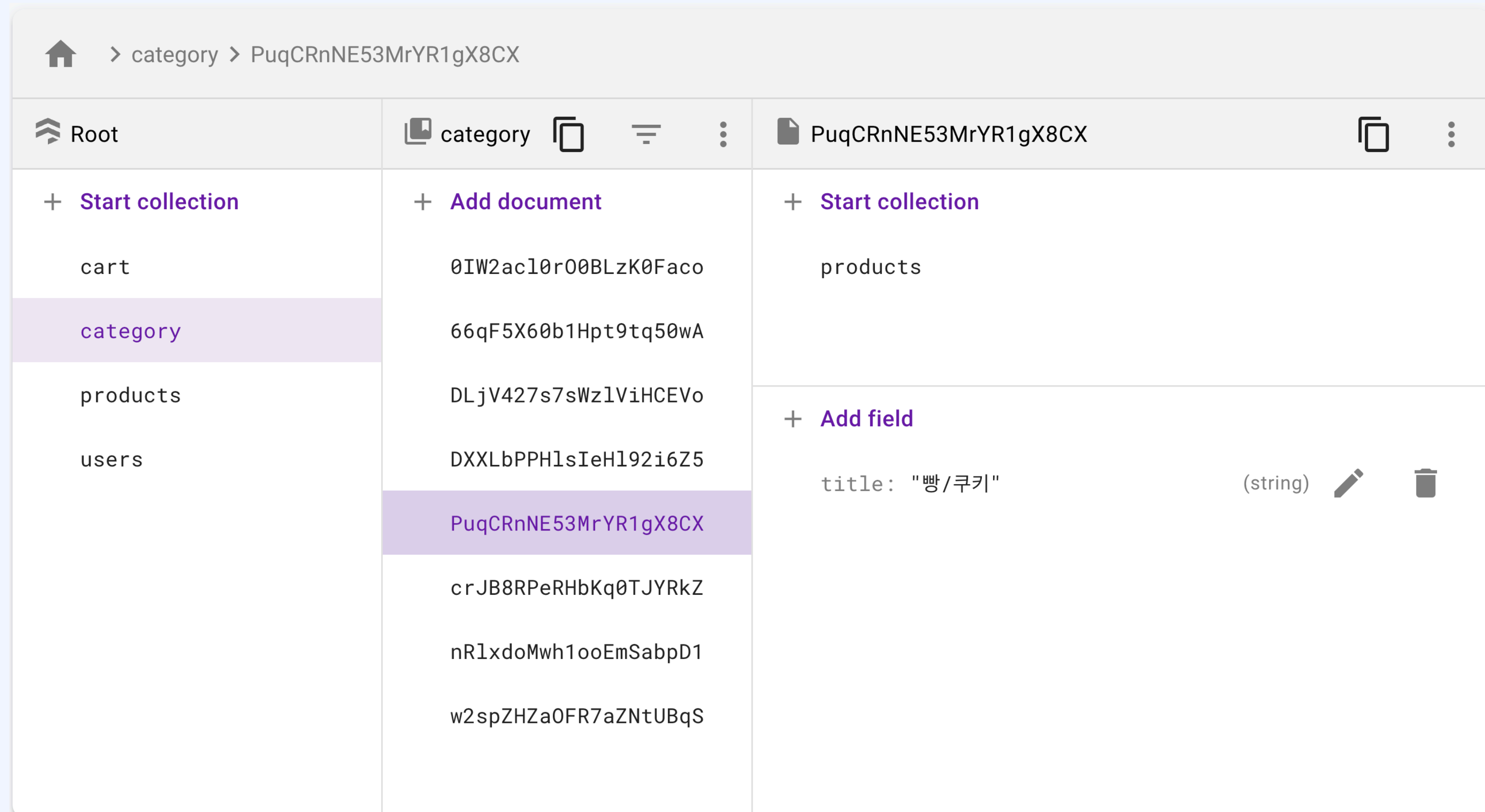
2. 카테고리 정보

컬렉션: Category

- 도큐먼트 - Title
 - 컬렉션 products
 - docId : products 컬렉션 내부의 제품 document ID

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컬렉션 설계하기 2. 카테고리 정보



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컬렉션 설계하기

3. 제품정보

컬렉션: products

- 도큐먼트 - title , description, docId, imgUrl, isSale, price, saleRate, stock
 - 컬렉션 category
 - docId : category 컬렉션 내부 document ID
- 컬렉션 reviews
 - 도큐먼트 : review, score, uid

Firestore

컬렉션 설계하기 3. 제품정보

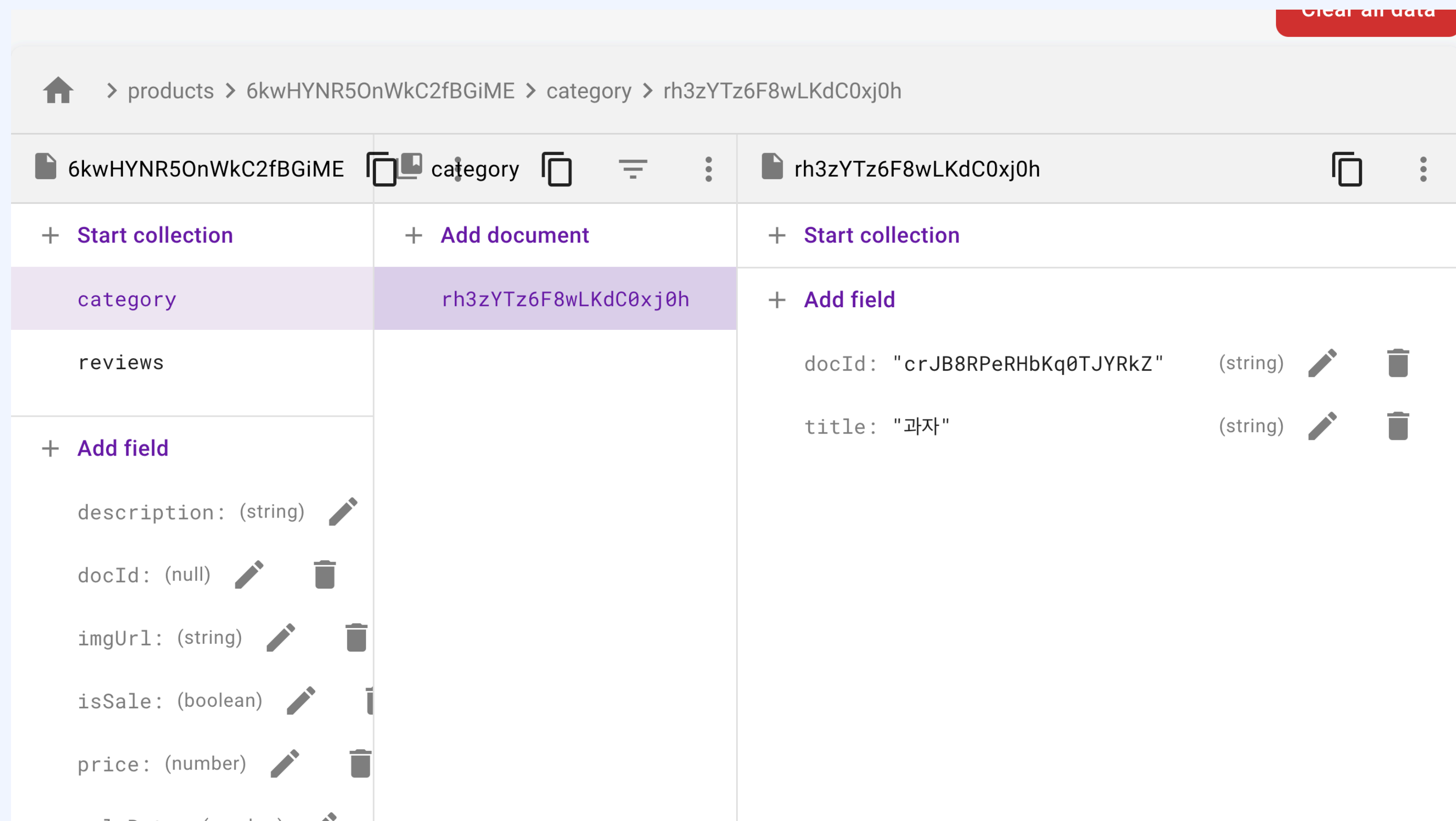
The screenshot displays the Firebase Firestore console interface. The breadcrumb navigation at the top indicates the path: `products > 6kwHYNR5OnWkC2fBGiME`.

The interface is divided into three main sections:

- Left Pane (Collections):** Shows a tree view of collections. The `products` collection is selected and highlighted in purple. Other collections visible are `Root`, `cart`, `category`, and `users`.
- Middle Pane (Documents):** Displays a list of documents within the `products` collection. The document `6kwHYNR5OnWkC2fBGiME` is selected and highlighted in purple. Other documents listed include `3n1TPjk1pSakP0t0tYPk`, `6qhAS2n0k0gBuEE9c8aw`, `8zhGEuoJV0vtjwDwx7uE`, `96ox031pJ4yDdDUxKP0Y`, `Gm2LdJBaFK3kWmcrlAS`, `Kh7bwFF1ZCggQoCkwLX0`, `PVNc27ExzzcgaKJv0Umx`, and `Qk1vQyJJjFEPlboFXgzu`.
- Right Pane (Document Details):** Shows the details of the selected document `6kwHYNR5OnWkC2fBGiME`. It includes a `+ Start collection` button and a `+ Add field` button. The document's fields are listed below:
 - `description`: "" (string)
 - `docId`: null (null)
 - `imgUrl`: "http://10.0.2.2:9199/v0..." (string)
 - `isSale`: true (boolean)
 - `price`: 1500 (number)
 - `saleRate`: 95 (number)

Firestore

컬렉션 설계하기 3. 제품정보



Firestore

컬렉션 설계하기 3. 제품정보

The screenshot shows the Firebase Firestore console interface. The breadcrumb navigation at the top indicates the path: `products > 6kwHYNR5OnWkC2fBGiME > reviews > VcHKXUZpK1yXHNPwouys`.

The interface is divided into three main sections:

- Left Panel (Collection 6kwHYNR5OnWkC2fBGiME):**
 - Buttons: `+ Start collection`, `+ Add field`.
 - Fields: `category`, `reviews` (highlighted), `description: (string)`, `docId: (null)`, `imgUrl: (string)`, `isSale: (boolean)`, `price: (number)`, `saleRate: (number)`.
- Middle Panel (Collection reviews):**
 - Buttons: `+ Add document`.
 - Document: `VcHKXUZpK1yXHNPwouys` (highlighted).
- Right Panel (Document VcHKXUZpK1yXHNPwouys):**
 - Buttons: `+ Start collection`, `+ Add field`.
 - Fields: `datetime: Wed Jul 26 2023 21... (timestamp)`, `review: "lol" (string)`, `score: 3 (number)`, `timestamp: Wed Jul 26 2023 2... (timestamp)`, `uid: "m6uGGMnfsszRLAkNUQyKxthoWr... (string)`.

Firebase Firestore

컬렉션 설계하기

4. 장바구니

컬렉션: cart

- 도큐먼트 - count , email, product, timestamp, uid
- count: 제품의 수
- product 의 상세 정보
- uid 등록된 사용자 아이디
- email 등록된 사용자 이메일

Firestore

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데이터베이스
설계하기

컬렉션 설계하기

4. 장바구니

🏠 > cart > kTUoTmfupgC2yaATJ4dM

Root

+ Start collection

cart

category

products

users

cart

+ Add document

kTUoTmfupgC2yaATJ4dM

kTUoTmfupgC2yaATJ4dM

+ Start collection

+ Add field

count: 1 (number)

email: "fc@gmail.com" (string)

product (map)

description: "" (string)

docId: "6kwHYNR50nWkC2fBGiME" (string)

imgUrl: "http://10.0.2.2:919..." (string)

isSale: true (boolean)

price: 1500 (number)