

Ecommerce NoSQL Database Design Document

User Collection:

Collection Definition:

- `_id`: A unique identifier for the document.
- `username`: Represents the username of a user.
- `fullname`: Represents the full name of a user.
- `email`: Represents the email address of a user.
- `password`: Represents the password of a user.
- `isAdmin`: Indicates whether the user has admin privileges or not.
- `isActive`: Indicates whether the user's account is active or not.
- `createdTs`: Represents the timestamp when the document was created.
- `updatedTs`: Represents the timestamp when the document was last updated.

Example:

```
{  
  "_id": <id>,  
  "username": <username>,  
  "fullname": <fullname>,  
  "email": <email>,  
  "password": <password>,  
  "isAdmin": <isAdmin>,  
  "isActive": <isActive>,  
  "createdTs": <createdTs>,  
  "updatedTs": <updatedTs>  
}
```

UserSession Collection:

Collection Definition:

- `userId`: Represents the user ID associated with the session.
- `_id`: A unique identifier for the document.
- `sessionToken`: Represents the session token generated for the user.
- `isActive`: Indicates whether the session is currently active or not.
- `createdTs`: Represents the timestamp when the document was created.
- `updatedTs`: Represents the timestamp when the document was last updated.

Example:

```
{
  "_id": <id>,
  "userId": <userId>,
  "sessionToken": <sessionToken>,
  "isActive": <isActive>,
  "createdTs": <createdTs>,
  "updatedTs": <updatedTs>
}
```

Category Collection:

Collection Definition:

- `_id`: A unique identifier for the document.
- `name`: Represents the name of an item.
- `description`: Represents the description of the item.
- `isActive`: Indicates whether the item is currently active or not.
- `createdTs`: Represents the timestamp when the document was created.

- updatedTs: Represents the timestamp when the document was last updated.

Example:

```
{  
  "_id": <id>,  
  "name": <name>,  
  "description": <description>,  
  "isActive": <isActive>,  
  "createdTs": <createdTs>,  
  "updatedTs": <updatedTs>  
}
```

Product Collection:

Collection Definition:

- _id: A unique identifier for the document.
- name: Represents the name of a product.
- description: Represents the description of the product.
- price: Represents the price of the product.
- quantityInStock: Represents the quantity of the product available in stock.
- image: Represents the URL or path to an image associated with the product.
- categoryId: Represents the category ID to which the product belongs.
- isActive: Indicates whether the product is currently active or not.
- createdTs: Represents the timestamp when the document was created.
- updatedTs: Represents the timestamp when the document was last updated.

Example:

```
{  
  "_id": <id>,  
  "name": <name>,  
  "description": <description>,  
  "price": <price>,  
  "quantityInStock": <quantityInStock>,  
  "image": <imageUrl>,  
  "categoryId": <categoryId>,  
  "isActive": <isActive>,  
  "createdTs": <createdTs>,  
  "updatedTs": <updatedTs>  
}
```

Cart Collection:

Collection Definition:

- `_id`: A unique identifier for the document.
- `userId`: Represents the user ID associated with the order.
- `orderTotalPrice`: Represents the total price of the order.
- `products`: Represents a sub-document containing information about the products included in the order. Each product is represented by a unique `productId`.
 - `_id`: A unique identifier for the product.
 - `price`: Represents the price of the product.
 - `units`: Represents the number of units of the product included in the cart.
 - `name`: Represents the name of the product.
 - `image`: Represents the URL or path to an image associated with the product.
- `isActive`: Indicates whether the order is currently active or not.
- `createdTs`: Represents the timestamp when the document was created.

- updatedTs: Represents the timestamp when the document was last updated.

Example:

```
{
  "_id": <id>,
  "userId": <userId>,
  "orderTotalPrice": <orderTotalPrice>,
  "products": {
    <productId>: {
      "_id": <productId>,
      "price": <price>,
      "units": <units>,
      "name": <name>,
      "image": <imageUrl>
    }
  },
  "isActive": <isActive>,
  "createdTs": <createdTs>,
  "updatedTs": <updatedTs>
}
```

Order Collection:**Collection Definition:**

- `_id`: A unique identifier for the document.
- `userId`: Represents the user ID associated with the order.
- `status`: Represents the status of the order.
- `orderTotalPrice`: Represents the total price of the order.
- `products`: Represents a sub-document containing information about the products included in the order. Each product is represented by a unique `productId`.
 - `_id`: A unique identifier for the product.
 - `price`: Represents the price of the product.
 - `units`: Represents the number of units of the product included in the order.
 - `name`: Represents the name of the product.
 - `image`: Represents the URL or path to an image associated with the product.
- `shippingDetails`: Represents a sub-document containing the shipping details associated with the order.
 - `email`: Represents the email address for shipping.
 - `phoneNo`: Represents the phone number for shipping.
 - `address`: Represents the shipping address.
- `isActive`: Indicates whether the order is currently active or not.
- `createdTs`: Represents the timestamp when the document was created.
- `updatedTs`: Represents the timestamp when the document was last updated.

Example:

```
{
  "_id": <id>,
  "userId": <userId>,
  "status": <status>,
  "orderTotalPrice": <orderTotalPrice>,
  "products": {
    <productId>: {
```

```
"_id": <id>,  
"price": <price>,  
"units": <units>,  
"name": <name>,  
"image": <imageUrl>  
}  
,  
"shippingDetails": {  
  "email": <email>,  
  "phoneNo": <phoneNo>,  
  "address": <address>  
},  
"isActive": <isActive>,  
"createdTs": <createdTs>,  
"updatedTs": <updatedTs>  
}
```