

## Entity-Relationship Diagram (ERD)

Our Firebase Firestore database is structured around five core collections: users, artworks, orders, categories, and messages.

The users collection stores details about registered users, including their roles as artists, buyers, or administrators.

Artworks are linked to the artists through a createdBy reference field.

Orders contain nested arrays of purchased artworks and reference the buyer via userId.

Messages support communication between users and store sender and receiver references.

Categories is a static collection for filtering and browsing purposes.

The ERD below visualizes these relationships, ensuring data is normalized and easily scalable for querying and access control.