Firestore 🔥

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What is Firestore?

It's a database! Specifically:

- It's part of Firebase
- It's a database as a service
- It's a document store NoSQL database

There is a good introduction in their docs.

Let's let google teach us.

What else can Firestore do?

- Offline persistence
- Realtime updates across clients
- Paginated query data
- Transactions and batched add
- Out of the box machine learning (part of Firebase)

How do we use Firestore?

1. In your browser, [create a cloud instance](#).
2. In gradle, add the library to your Android project.
3. In code, get your firestore instance.
4. In code, write CRUD queries and handle responses with listeners.

There is a great example [in their docs](#). (Click "Java Android")

Let's add it to ListyCity

(This is the lab **demo**.)

User Story:

As a ListyCity user, I want to have my city list changes stay forever.

Let's add it to ListyCity

(This is the lab **exercise**.)

User Story:

As a ListyCity user, I want to delete a city from my list by name.

Appendix

Simple Exercise Data Hierarchy

📚   Cities (Collection)

------- 🔖   Edmonton (Document)

------- 🔖   Calgary (Document)

------- 🔖   Toronto (Document)

        ...

Complex Exercise Data Hierarchy

📚 Provinces (Collection)

------- 📖 Alberta (Document)

-------------- 📚 Cities (Collection)

------------------------ 📖 Edmonton (Document)

------------------------ 📖 Calgary (Document)

------- 📖 British Columbia (Document)   ...