

INTRODUCTION

Households get busy and have many things going on at the same time. To better facilitate communications between household members, we have created a dynamic grocery list app, allowing everyone in the household to add items to the list, while notifying and updating all other members. The clients of the application will feed directly to the servers using the local state of their saved grocery list. The clients will send push notifications to group members when a new item is added to the database.

IMPLEMENTATION

Mobile app development in Android Studio using the cross-platform Flutter framework, written in Dart. API using Flask in Python to interact with backend SQLite database.

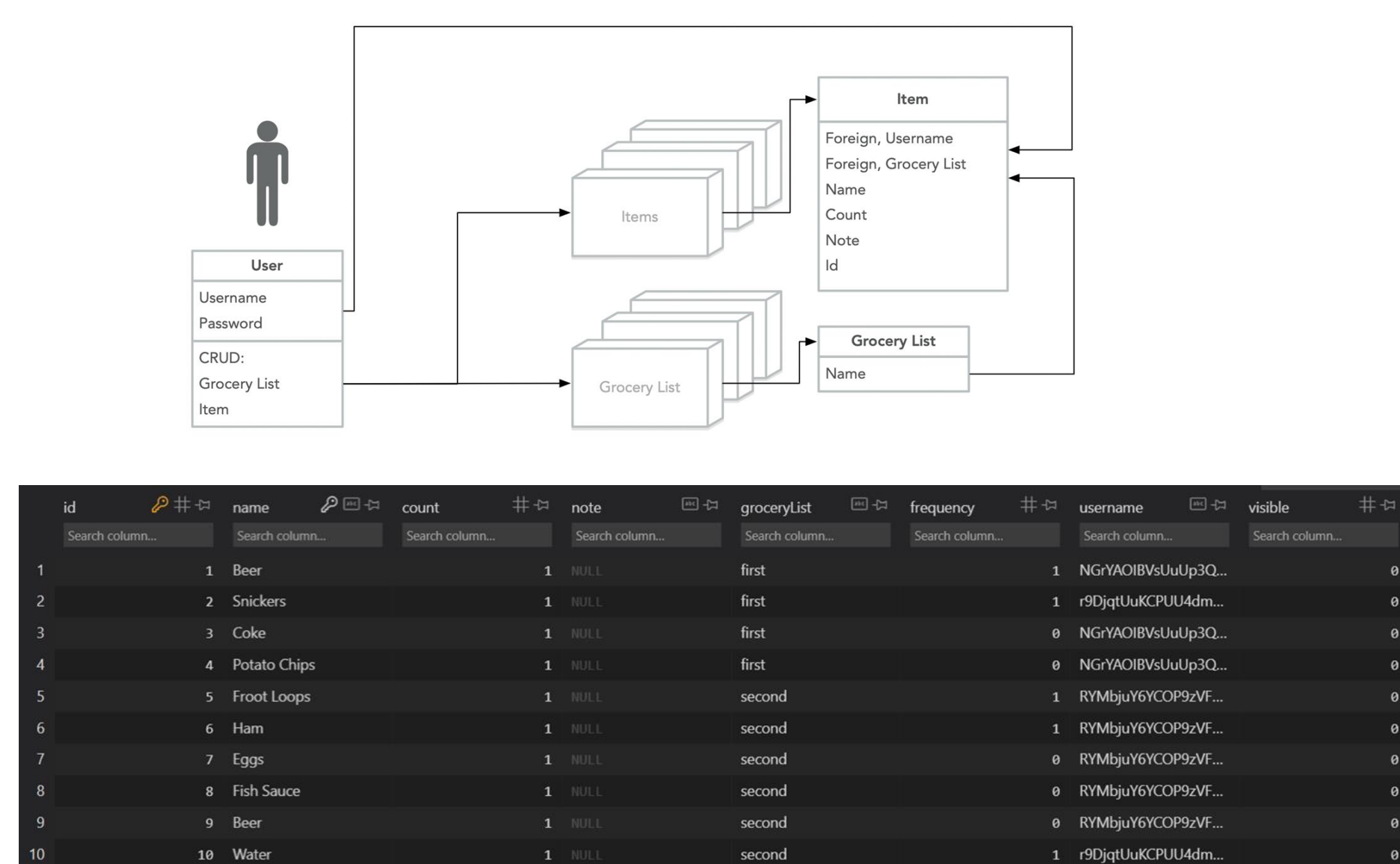
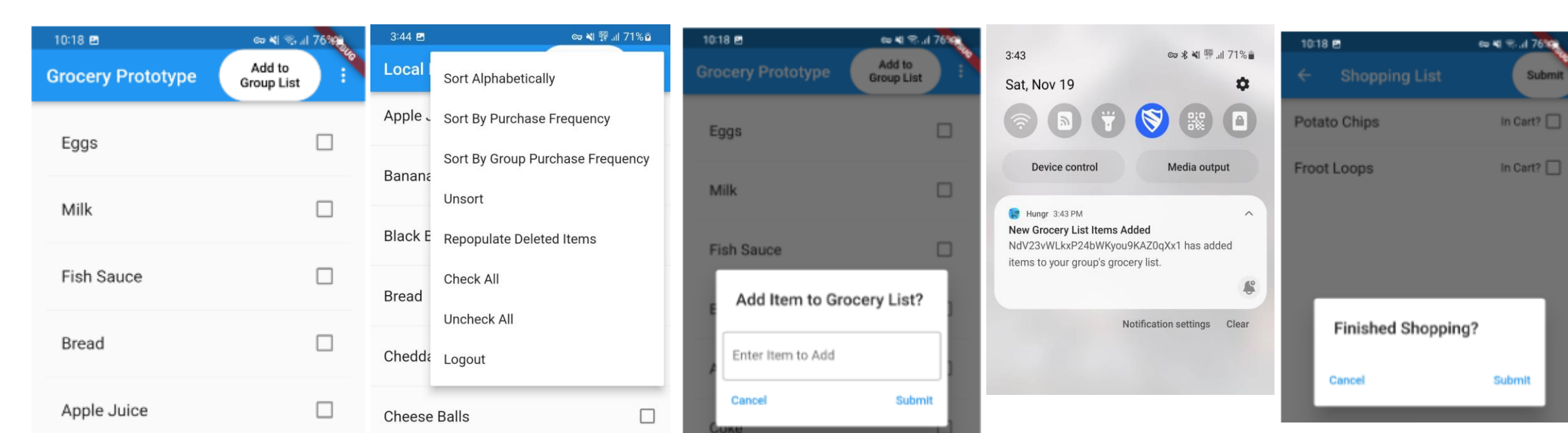


Fig. 1 Schema of the Database

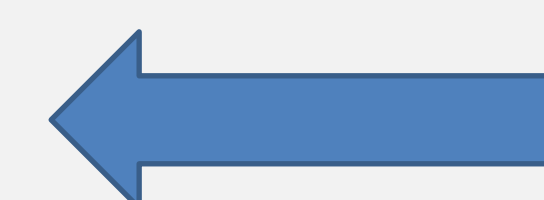
Fig. 2 The Database

CHALLENGES

We initially started using SQLite for all back-end operations, but Google's Firebase database and hosting service was streamlined to directly create accounts and provide authentication.



Our project delivers a dynamic grocery list app for both Android and iOS. The app is secure, cross-platform, and interactive and shareable among users who choose to form a group.



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