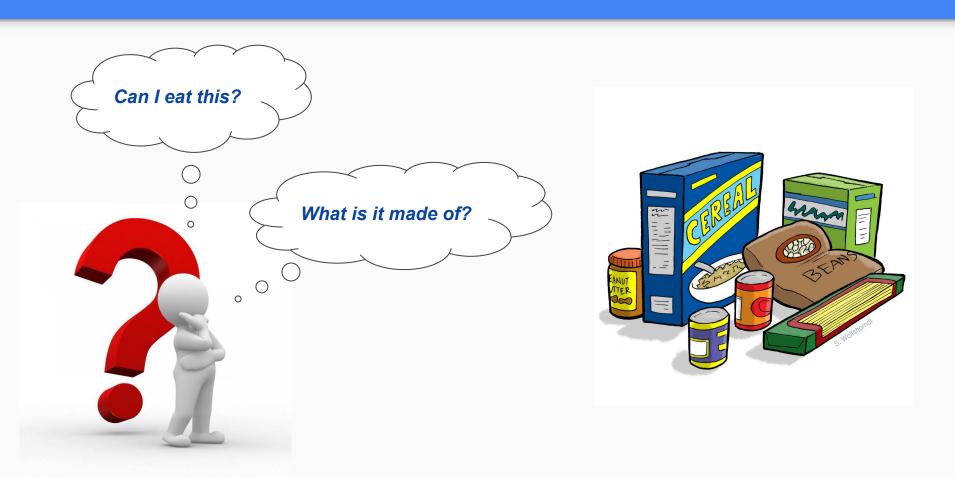
Final Presentation

Group 6

Doruk Taneli Philipp Martens Alexander Kranzer Yuna Jeong Bogyu Jeong

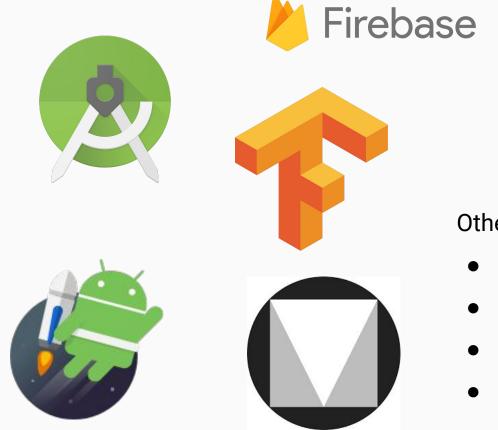
Motivation



Our Solution



Tools and Libraries



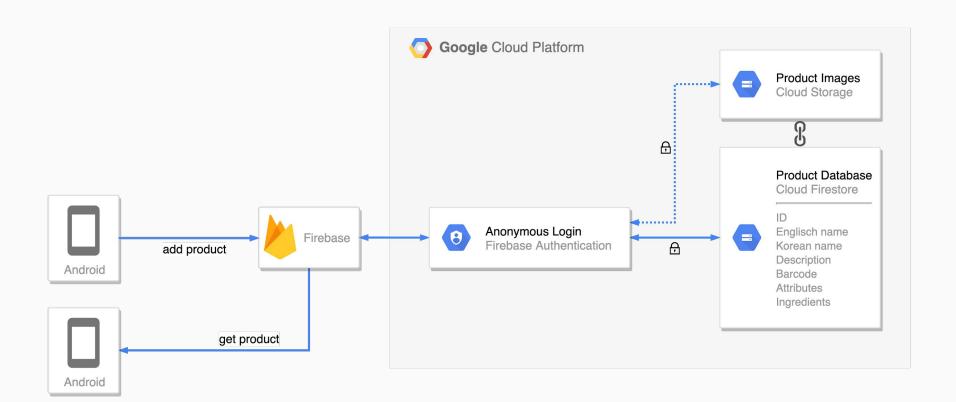




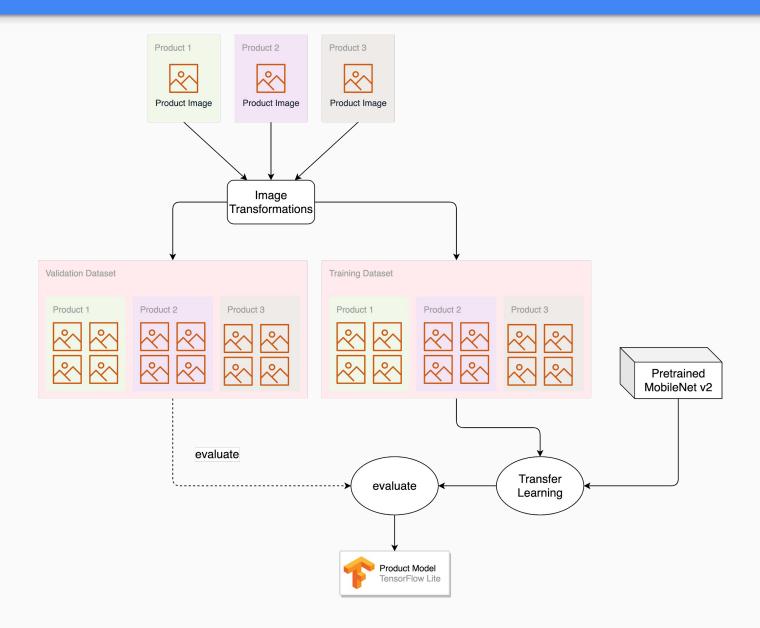
Other Libraries:

- Volley by Google
- MaterialSearchBar by mancj
- ProgressButton by razir
- uCrop by Yalantis

System Overview



Product Model

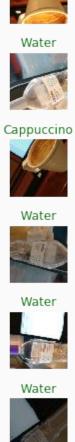


Model predictions (green: correct, red: incorrect)

Evaluation







Cappuccino

















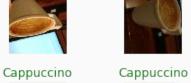




Water

Water







Water

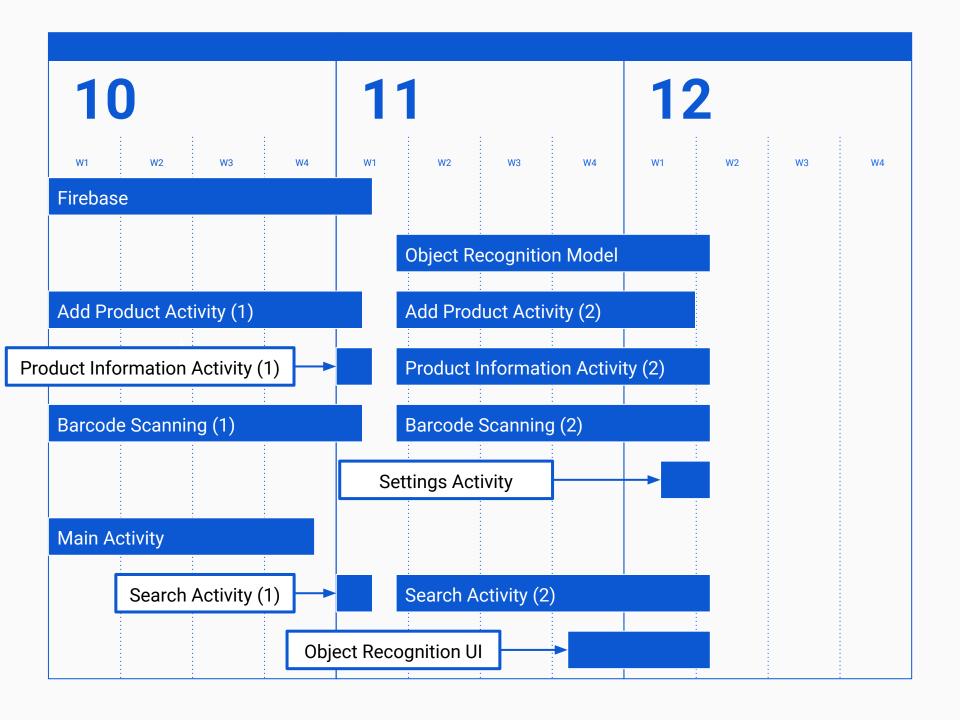
Water





Key Technical Challenges

Problem	Solution
Firebase Firestore doesn't provide a search function	On device search
Real-Time barcode scanning	ML Kit
Deep nesting of ingredients	Only load ingredients on demand
Product image recognition	Tensorflow Lite



Lessons Learned

- Project Management
- Reviews are important