

# Frunds

Run with your friends!

Gibellini Federico  
Rondini Luca

# Functionalities

- Track running sessions
  - Track path, distance, duration of a running session
  - Pause and resume tracking within a single session
  - See a history of all previous sessions
- Propose trainings
  - Share a training proposal only with friends or with the entire app community
  - Find training proposal by organiser, place name or by area
- Set goals
  - Run for a minimum distance or time
  - Perform a running session with a minimum average speed




# Services

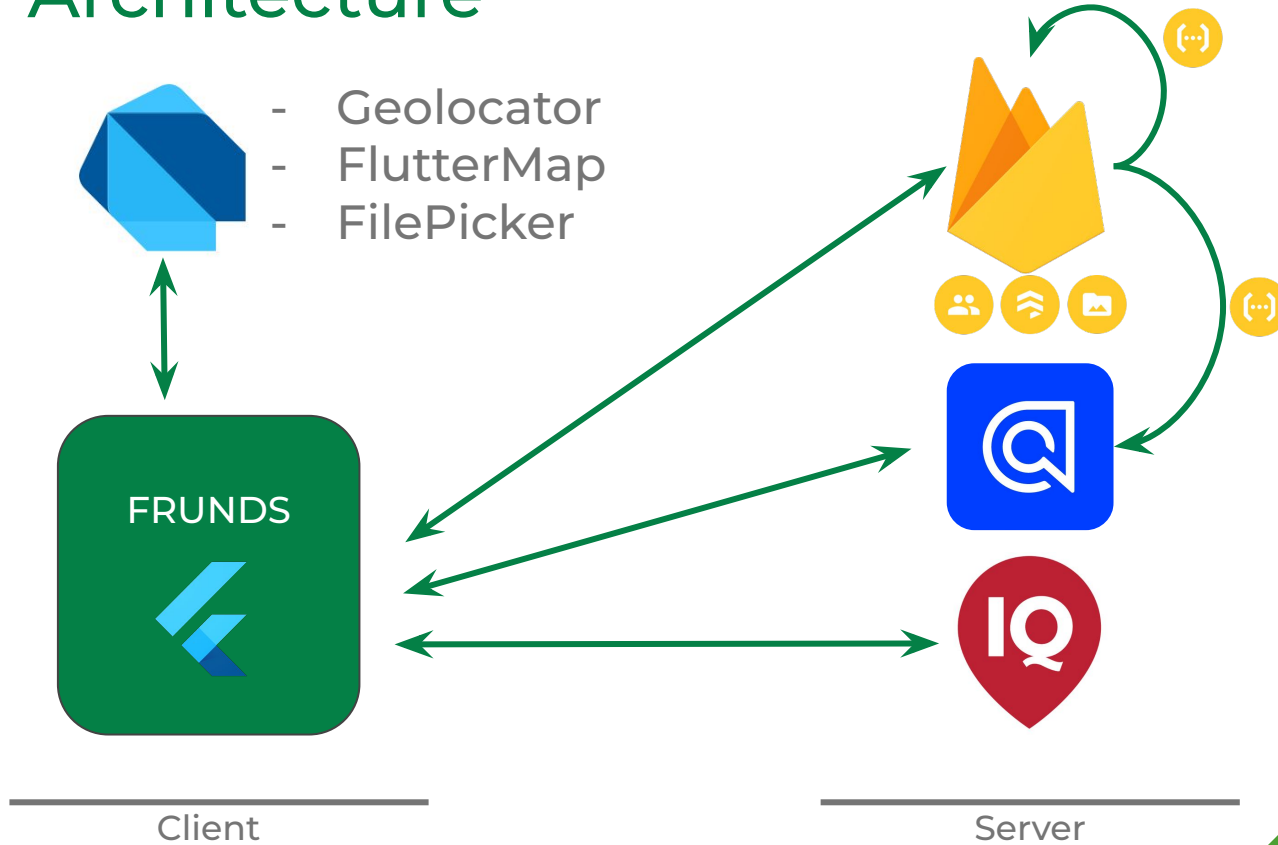
## Backend

- Firebase (Auth, Firestore, Storage, Cloud Functions)
- Algolia (search engine used for user search)
- LocationIQ (place database and geocoder)

## Client-side integrations

- Geolocator (used to get GPS position)
  - FlutterMap (used to embed maps)
  - Maps provided by cartocdn (free, based on OSM)
- 
- A decorative graphic in the bottom right corner consisting of several overlapping green triangles and rectangles in various shades of green, creating a modern, abstract design.

# Architecture



# Testing

- Unit test
  - Test classes in isolation to verify behavior
- Widget test
  - Test UI classes to verify graphical rendering
- Both supported by mocks
  - Using support library mockito
  - Mocks generated automatically with build runner library for null safety support
- Results:
  - Overall line coverage 98% (Flutter lcov report)





Time for a demo!