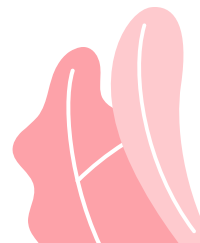# INSULINK

A useful diary for your diabetes

OUR TEAM

Nicola Dean

Polimi
C.P. 10674826

Marco Fasanella

Polimi
C.P. 10617541

OUR IDEA

InsuLink main goal is to give a first support to the patient but only if combined with the doctor supervision.

It is important to underline that this application is only defined by an algorithm, and in this kind of diseases each patient needs ad hoc treatments
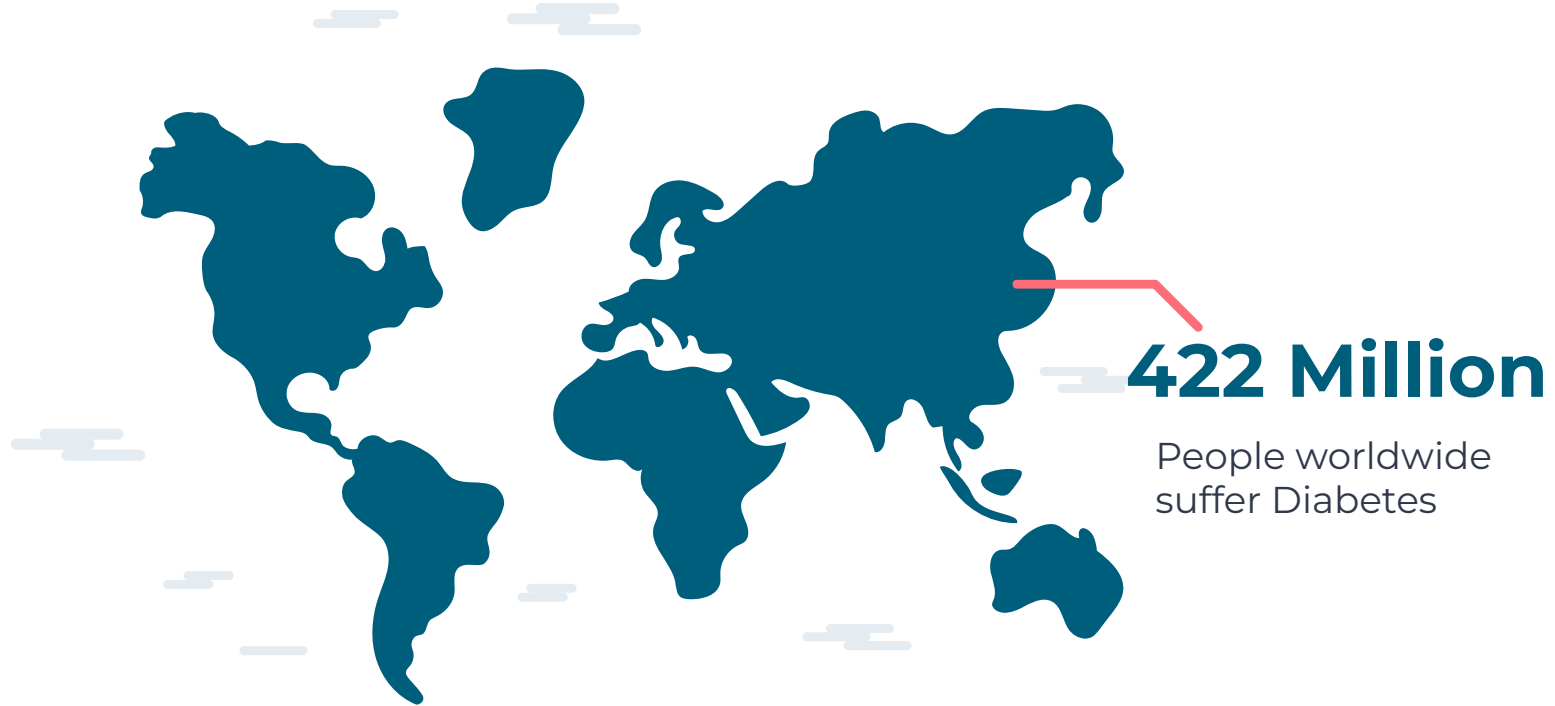
MARKET SIZE

95%
Type 2

5%
Type 1

422 Million

People worldwide
suffer Diabetes

Source: WHO

Functionalities

Scan your food

Scan a given Food BarCode and read all its nutrients!

Insulin Calculator

An algorithm will retrieve all essential data to calculate the optimal insulin dose
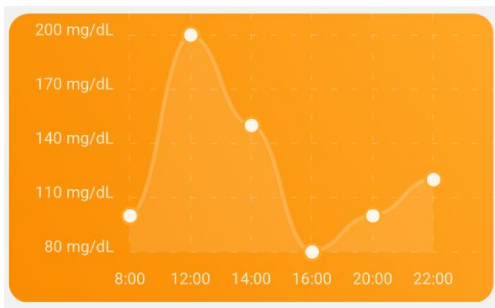
Calendar

Users can see a well detailed sight of all previous data, just choosing a date from the InsuLink calendar

Glycemia

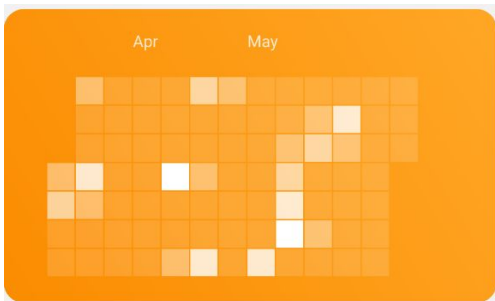Keep track of your daily Glycemia with intuitive charts!
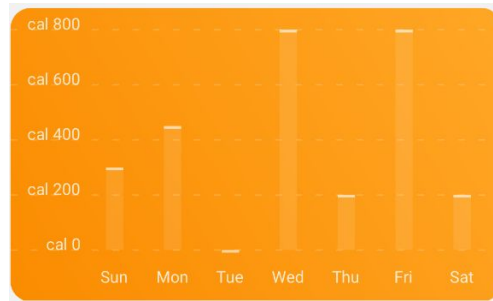
Charts

Glycemia Trend
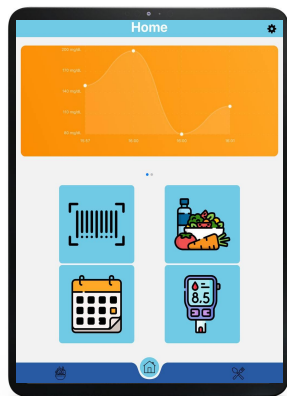

Macro

Sport HeatMap

Sport last week
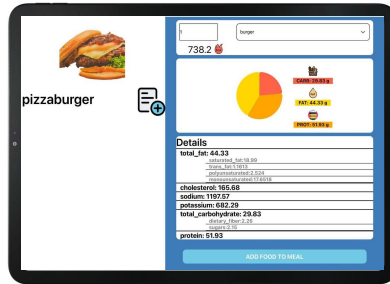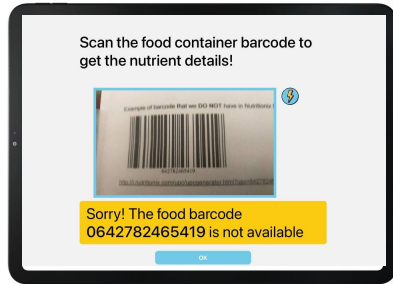
Layout

iPad

Dynamic adaption for tablets.
Currently tested on iPad

Phone

Compact style with both
Android and iOS devices
supported
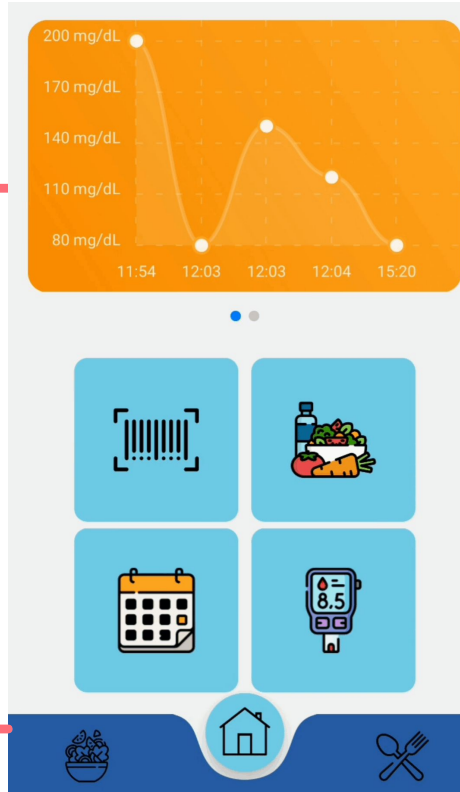
Horizontal Layout

Tablet

iPad and Tablet support also customized horizontal layout

Demo

Charts

Useful charts with glycemia Trend and macros

Shortcuts

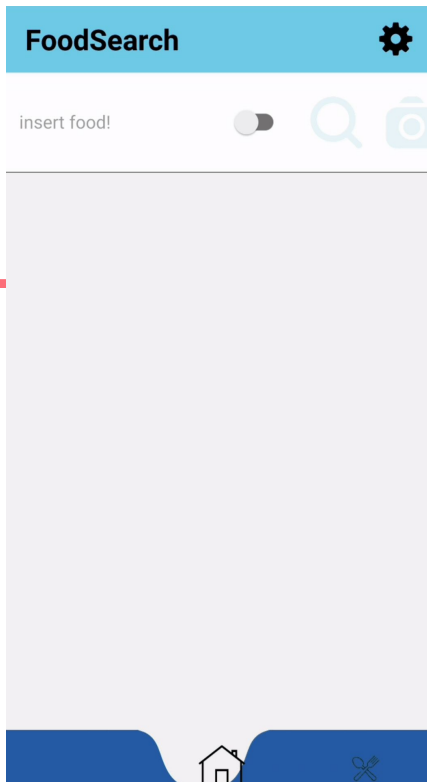Just click a button to reach all the functionalities

Navigation

Instantly navigate from home menu to the diary or food search

Search

Go in detail

Search every kind of food or recipe and get all nutrition details you need

Scan

API

Moreover, using Premium APIs the

Barcode

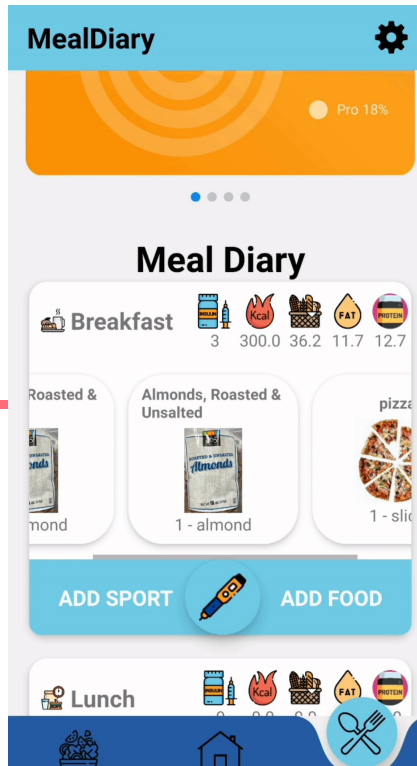Most Famous Food is available for scan

Glycemia

Misuration

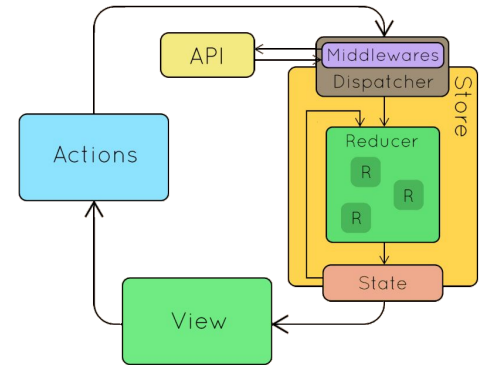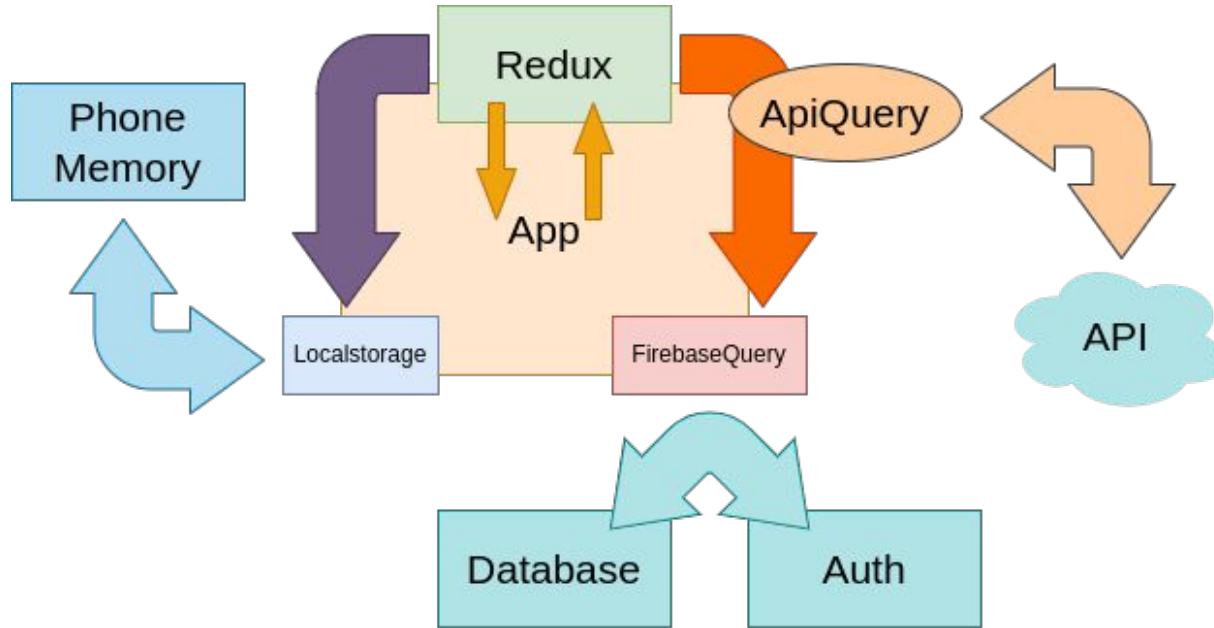Save your current glycemia and see its trend

Insulin Calculator

Skip

Last Glycemia value is used

Last Glycemia

Insert you last misuration

Architecture

TEST STRATEGY

Snapshot — Check change in status or pages aspect

Widget — Test Pages/Components buttons events

Unit — Test our helper class methods individually

TEST STRATEGY

16   •——— **Test suites**

59   •——— **Normal Tests**

33   •——— **Snapshots**

Testing

Firebase

Check Firebase components are called correctly

Api

Check api queries

Localstorage

Check Local storage function use data correctly

Redux Reducers

Snapshot reducers behaviour

Testing

InputChecker

Check Login/Reg errors are thrown correctly

Components

Snapshot custom buttons components

Pages Snapshots

Snapshots on the page base aspect

Pages WidgetTest

Test pages buttons/inputs behaviour

Future Implementations

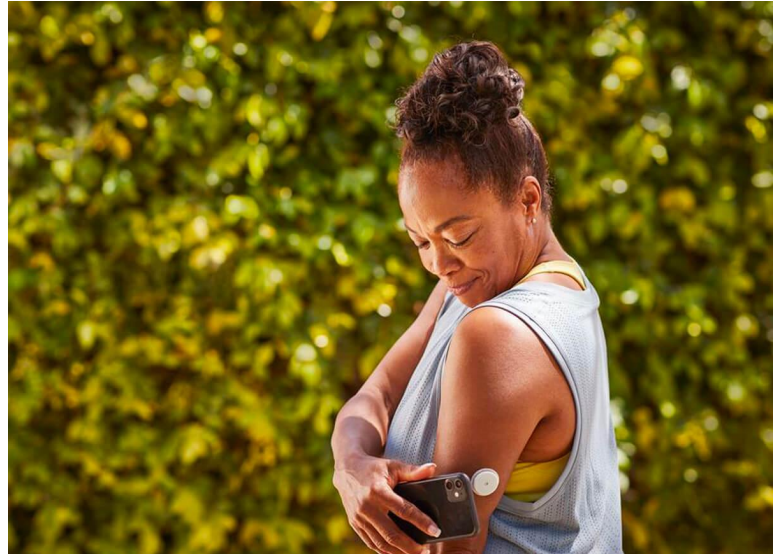Some improvements that will make InsuLink even more faster and accurate!

Machine Learning

Useful to predict the correct insulin dose

NFC Technology

Measure your glucose directly from the App

Premium API

Find even more food and recipes

THANKS

Special thanks to Matteo Ciancio who designed the app logo. For any business contact you can reach him at: matteociancio99@gmail.com