

# Radarin EN3B

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# Topics



**Introduction**

What is Radarin?

**Architecture**

What are the main components of the application and how they interact with each other

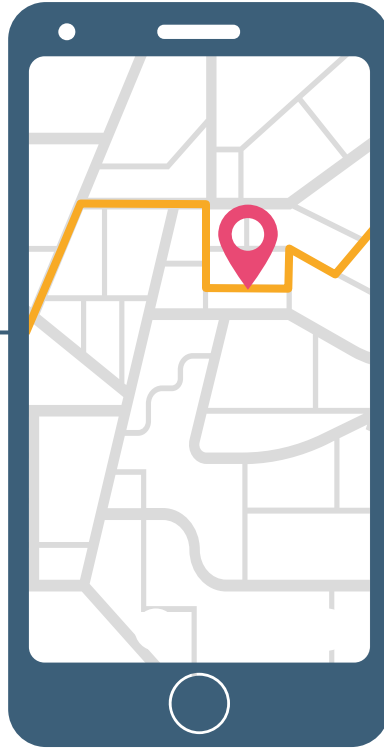
**Strategies**

Technologies and patterns used while developing Radarin

**Demo**

We will show you how it works

# Mobile application



## Share location

Locations are fetched periodically from the mobile. Only if you allow us, of course!



## Create locations

Like where you are? Share the location with your friends, adding a photo if you want to

# Mobile application

## Close friends

You can see at any time which of your friends are near you

## Help

We try to make our application as simple as possible, but you could always see our in-app help manuals if you find yourself lost



## Meet them!

If you want to meet with a close friend, just click on their name and go to their position with the help of Google Maps.

## Notifications

You don't need to have the app always open, as we will notify you if any new friend is near you!

# Web application

## See your locations

Any location that you uploaded from the mobile can be seen, together with a map for more clarity!

## Where did I go on...?

Want to know what path did you take on a specific day? You can!



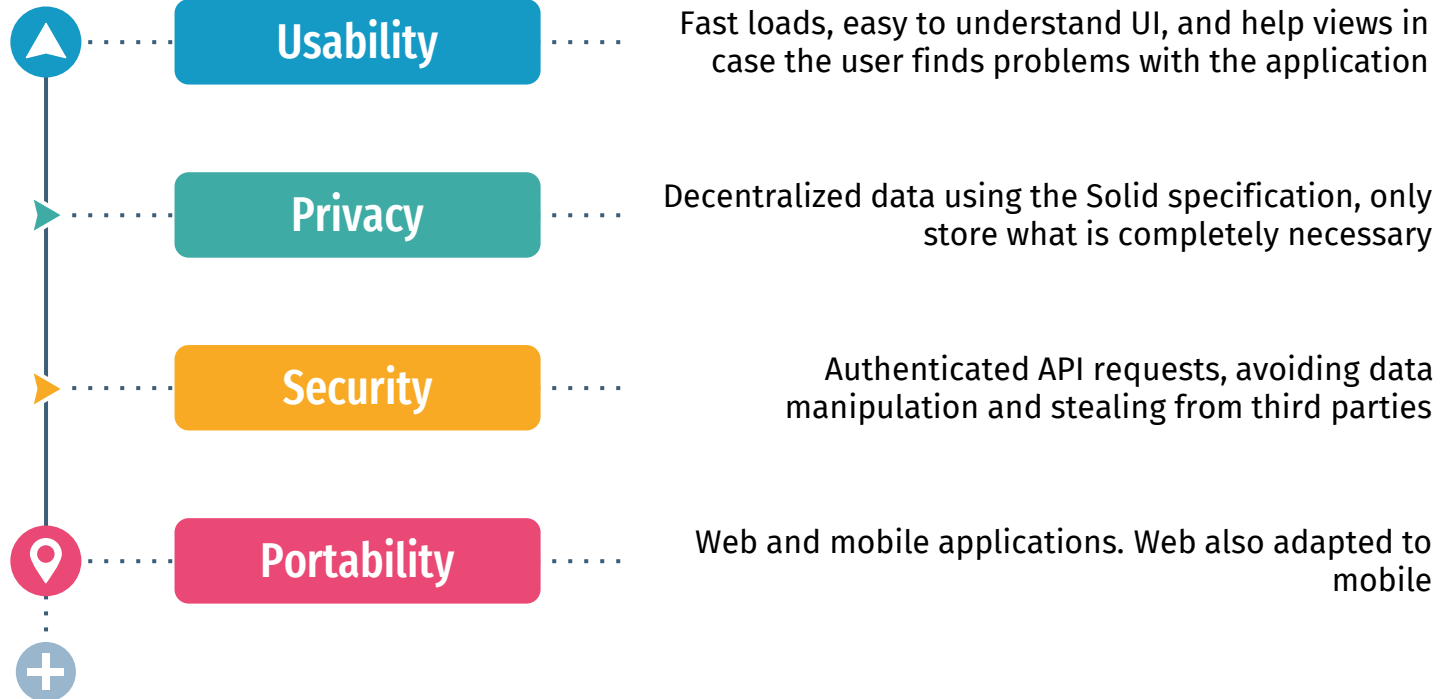
You can also see what your friends are up to, and where

## Friends' locations

As in the mobile, you can see our help manuals at any moment if you find yourself lost

## Help

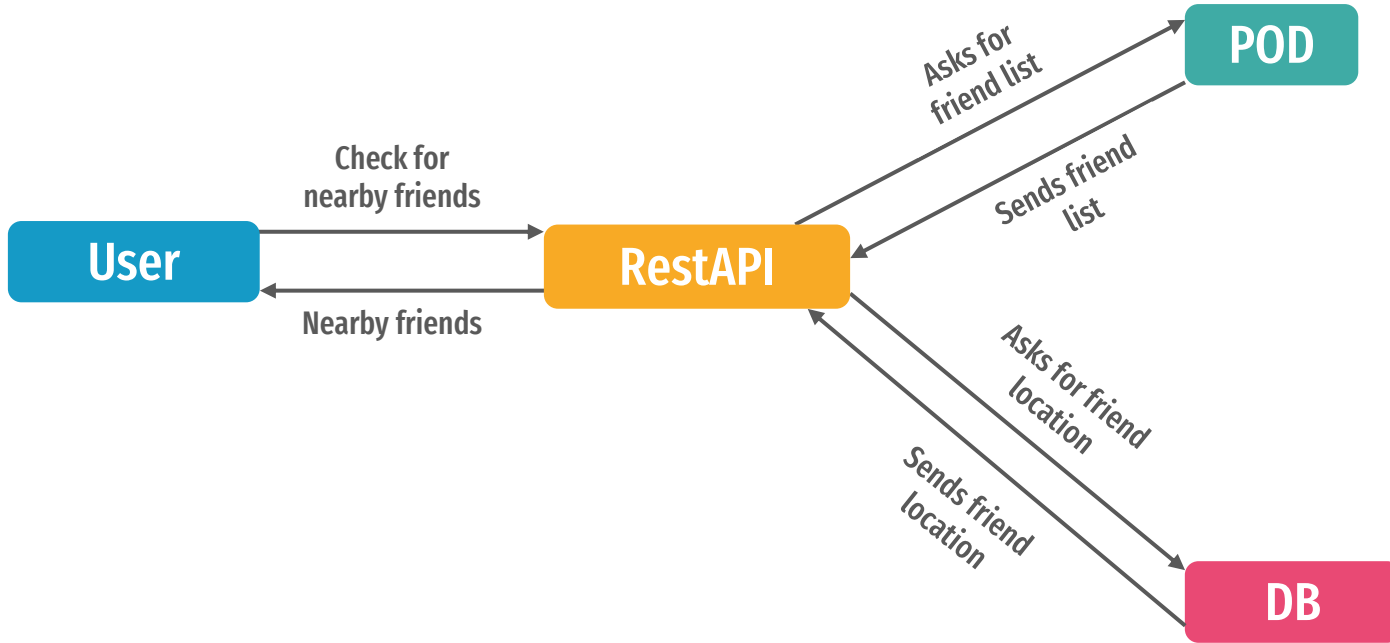
# Top 4 Quality attributes



# Architecture

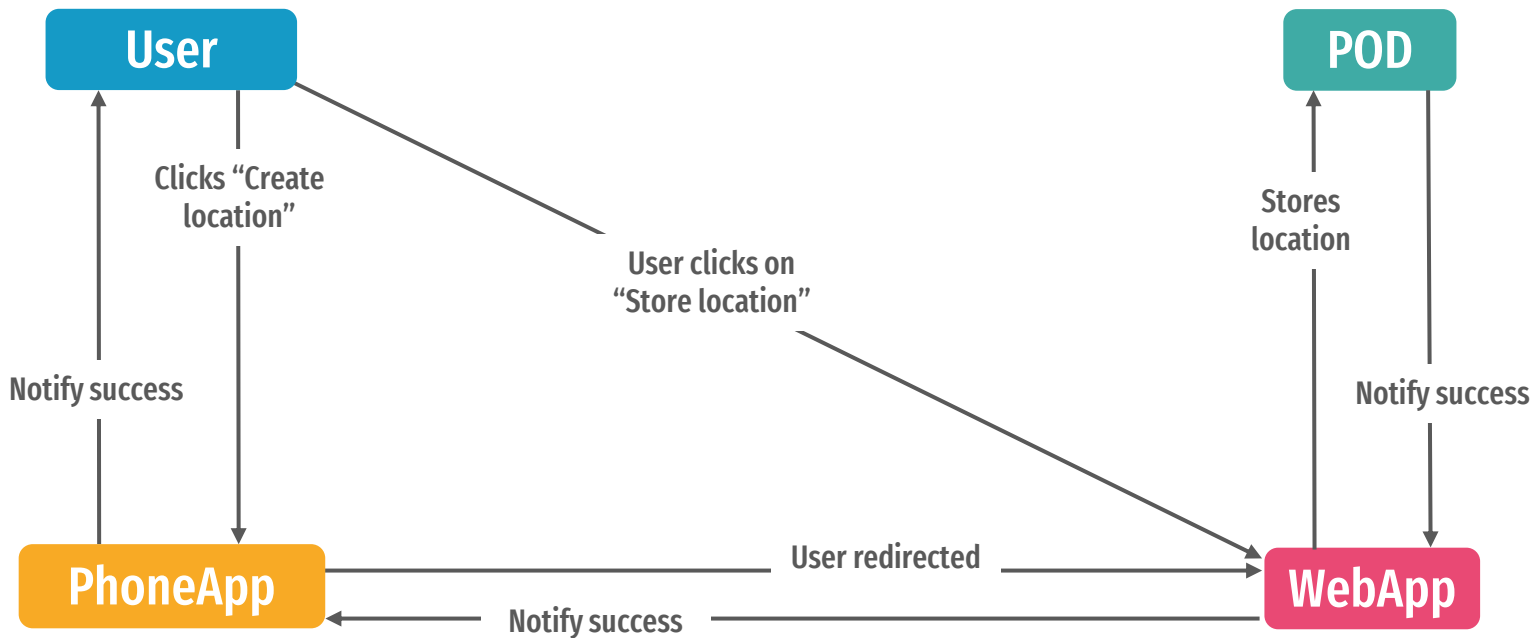


# Backend: Friends and distance

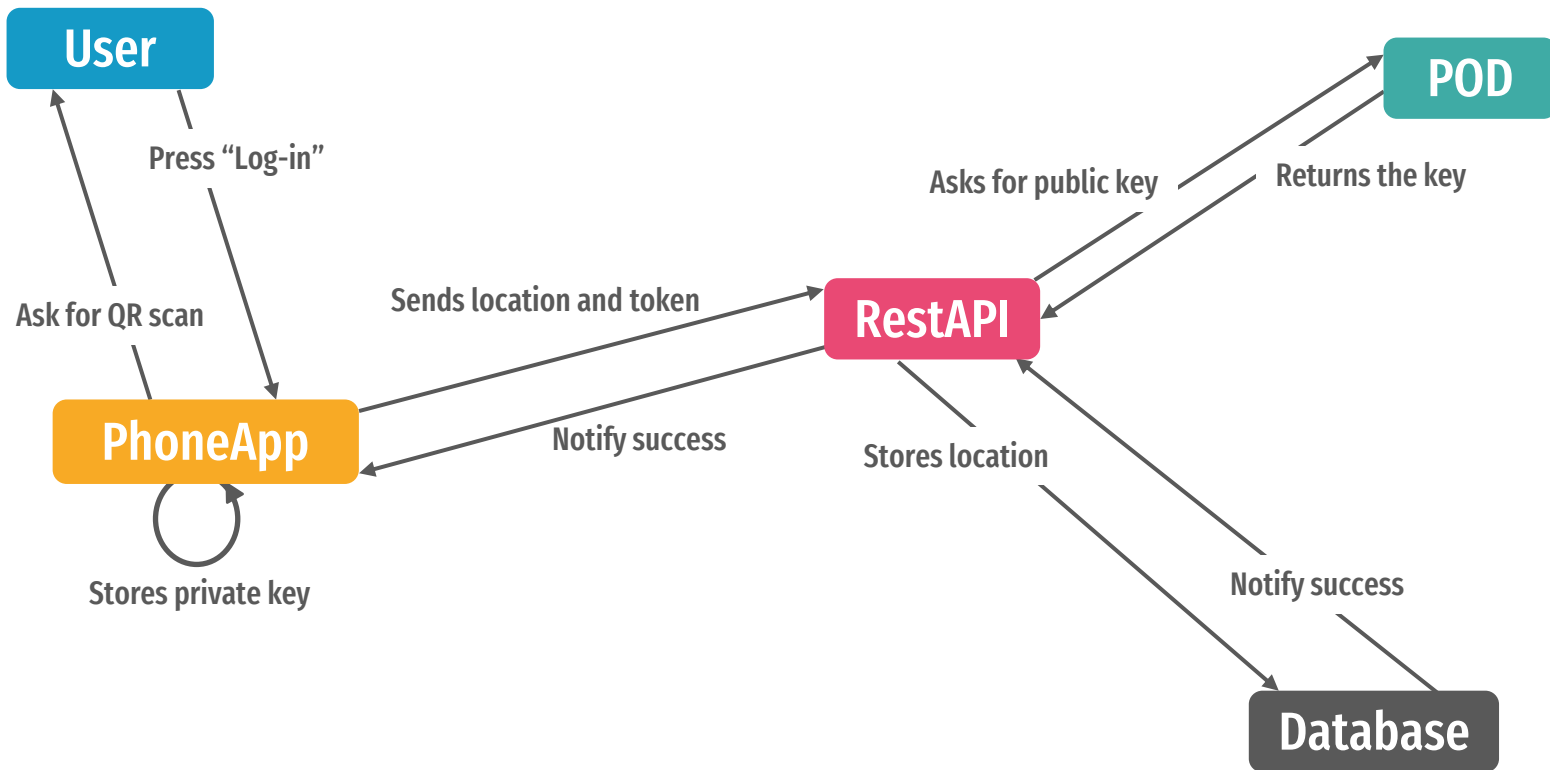




# Backend: Locations



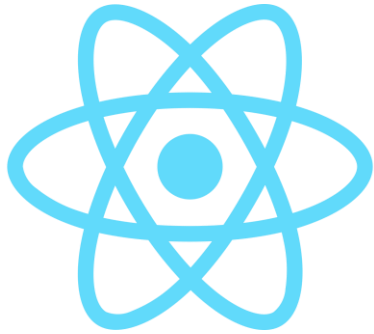
# Backend: Locations



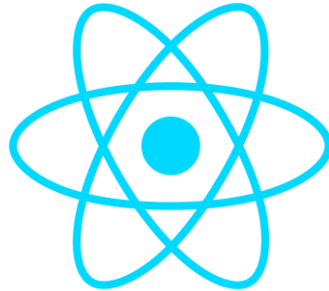
# Strategies



# React - Native - Redux



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React Native

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# Redux

Sharing information between components becomes easy!

Share



Locally saving the locations makes the user experience smoother

Locations



Facilitates writing independent and reusable code. Easy to write and maintain. Easier to handle state updates

Hooks



# QR for login and authentication

React Native does not work with DOM

Login into the POD from the mobile was unfeasible

The QR is generated in the web application

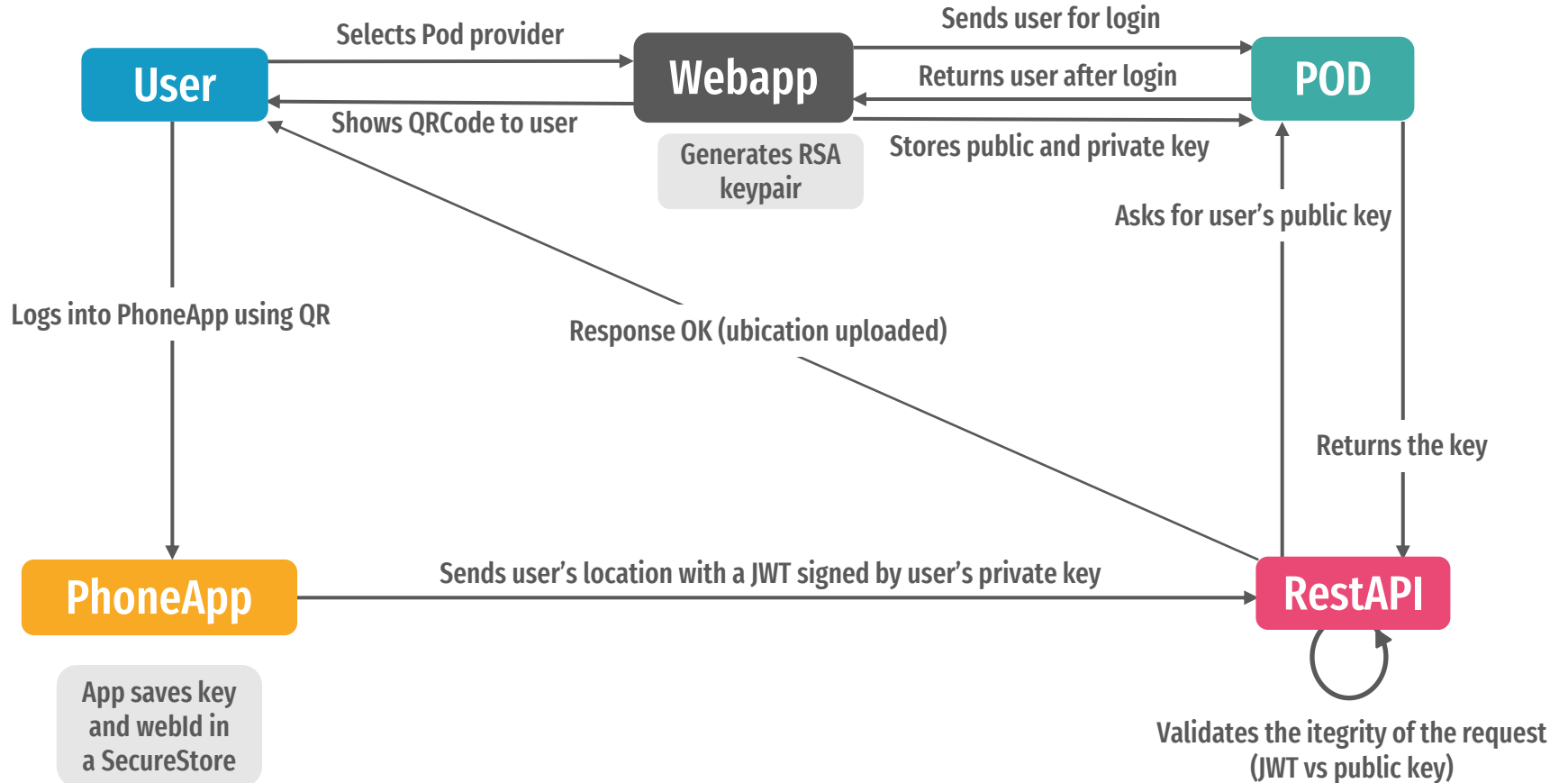


The user can scan the QR from his mobile to log into the application

Requests to the API can be signed with the key pair generated, enhancing security

Keys saved into the POD

# QR for login and authentication



# Testing





# Three approaches

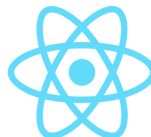
End-to-End



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Unitary



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Load

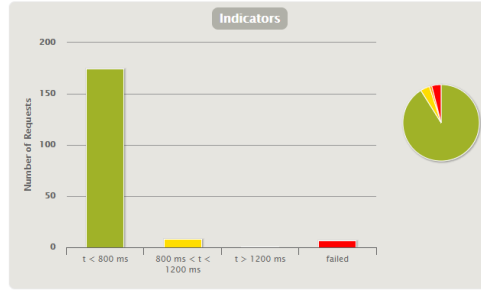
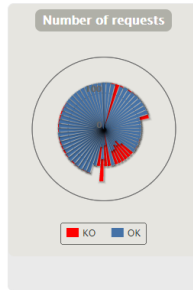
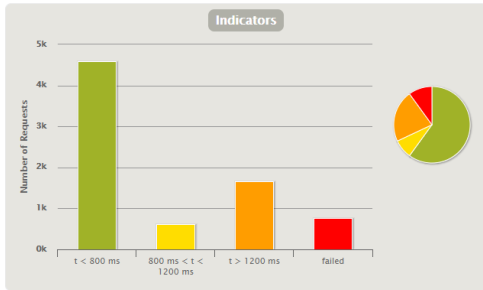


# Tests results



CI for radarin **passing** codecov **91%** code quality **B**

File	% Stmts	% Branch	% Funcs	% Lines
All files	90.49	84.88	78.16	91.68



# Tests results

Webapp

```
Test Suites: 31 passed, 31 total
Tests:       61 passed, 61 total
Snapshots:   0 total
Time:        53.807 s
Ran all test suites.
```

RestAPI

```
Test Suites: 1 passed, 1 total
Tests:       23 passed, 23 total
Snapshots:   0 total
Time:        3.581 s, estimated 4 s
Ran all test suites matching /\.\\tests/i.
```

# Documentation



# Documentation



## Periodically updated

Every other week, we ensure it was up-to-date, with the latest decisions made by the team

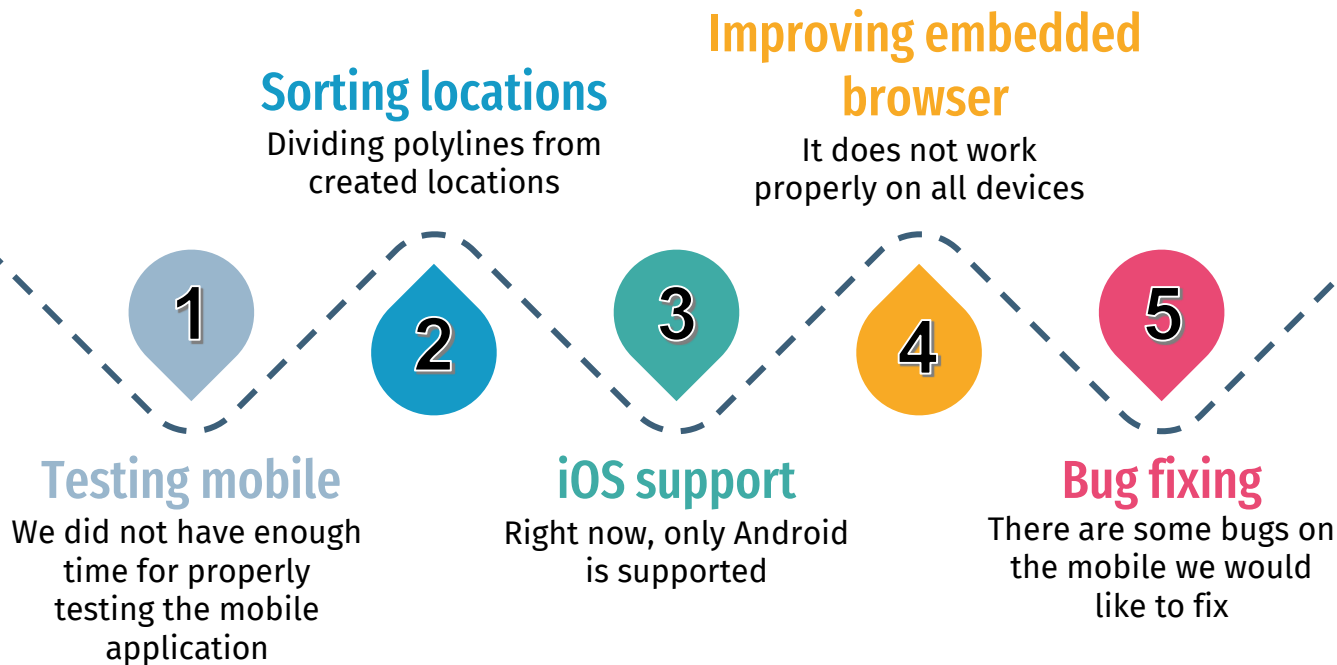
## Revised

Updates were independent, but with each one the whole documentation was revised for assuring integrity and avoiding duplication

## High starting effort

We took the documentation seriously from the beginning

# Future of Radarin



# Demo



## Requisites

### Solid account

You need a solid account. Either Inrupt or Solidcommunity are valid.

### Mobile apk

Needed as it has half of the functionality

### Browser

For accessing the web application

# Thanks!

Time for questions.

