

Radarin EN3B

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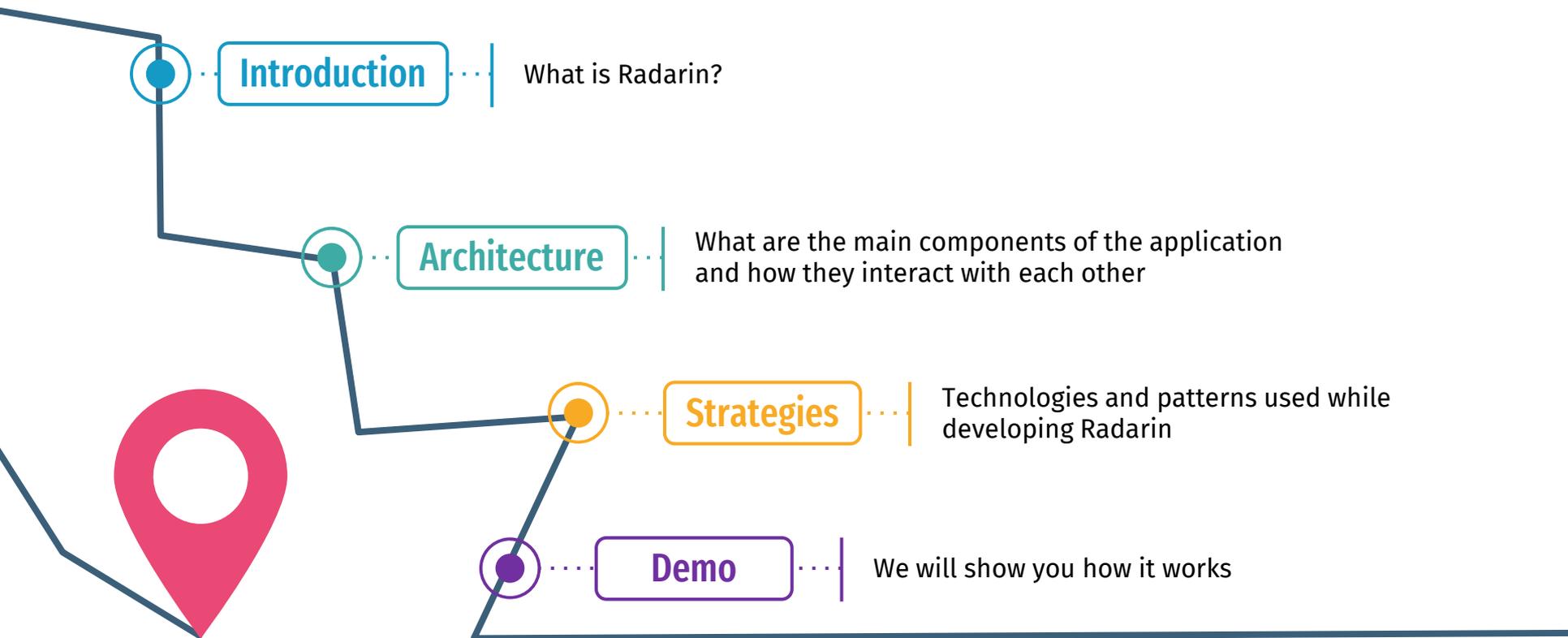
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Topics



Introduction

What is Radarin?

Architecture

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

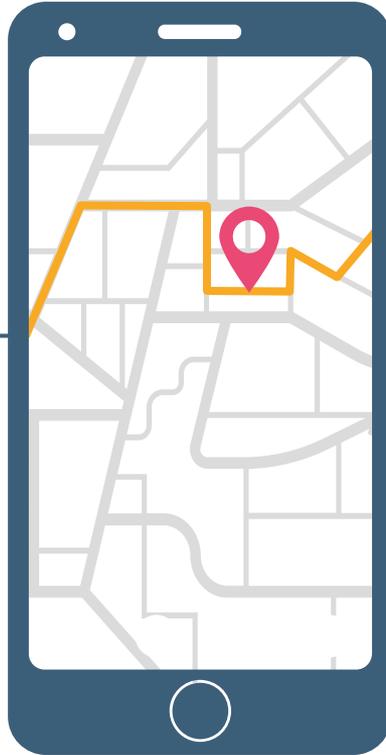
Strategies

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!



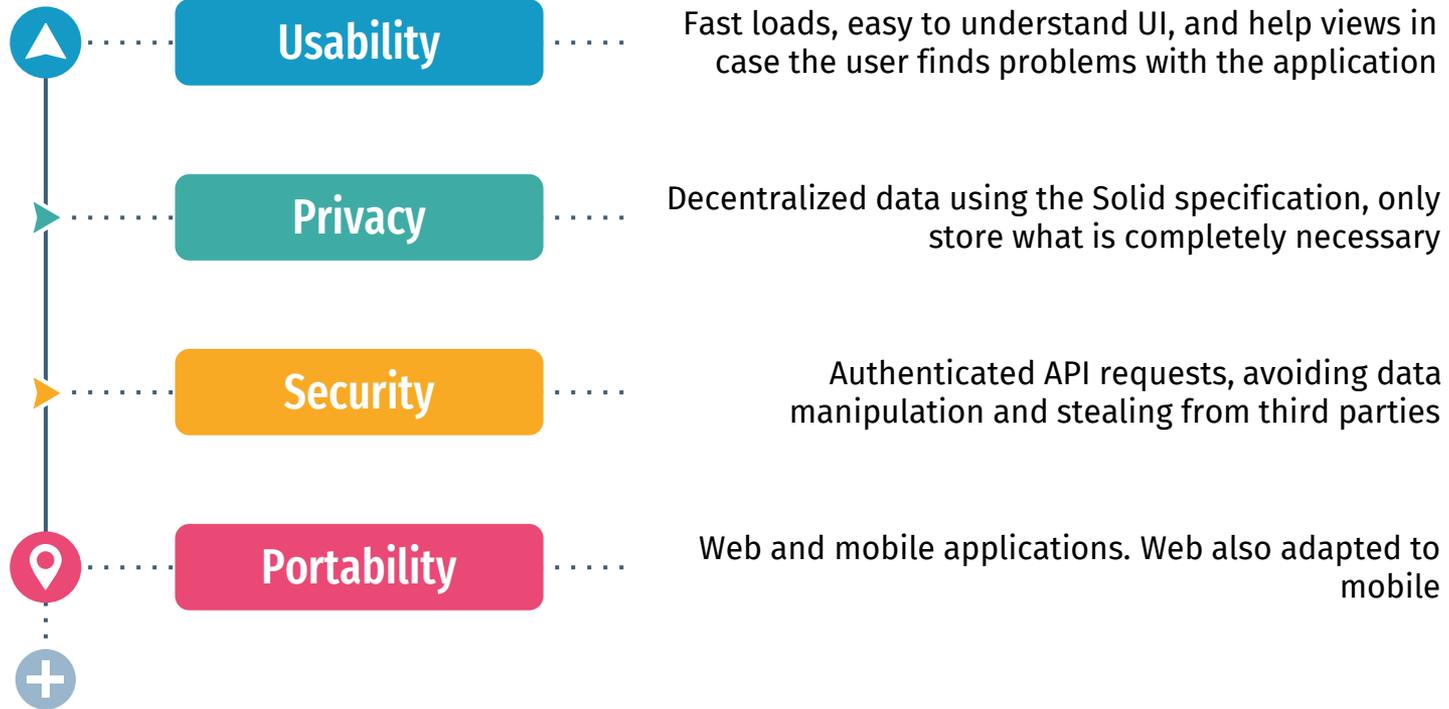
You can also see what your friends are up to, and where

Friends' locations

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

Help

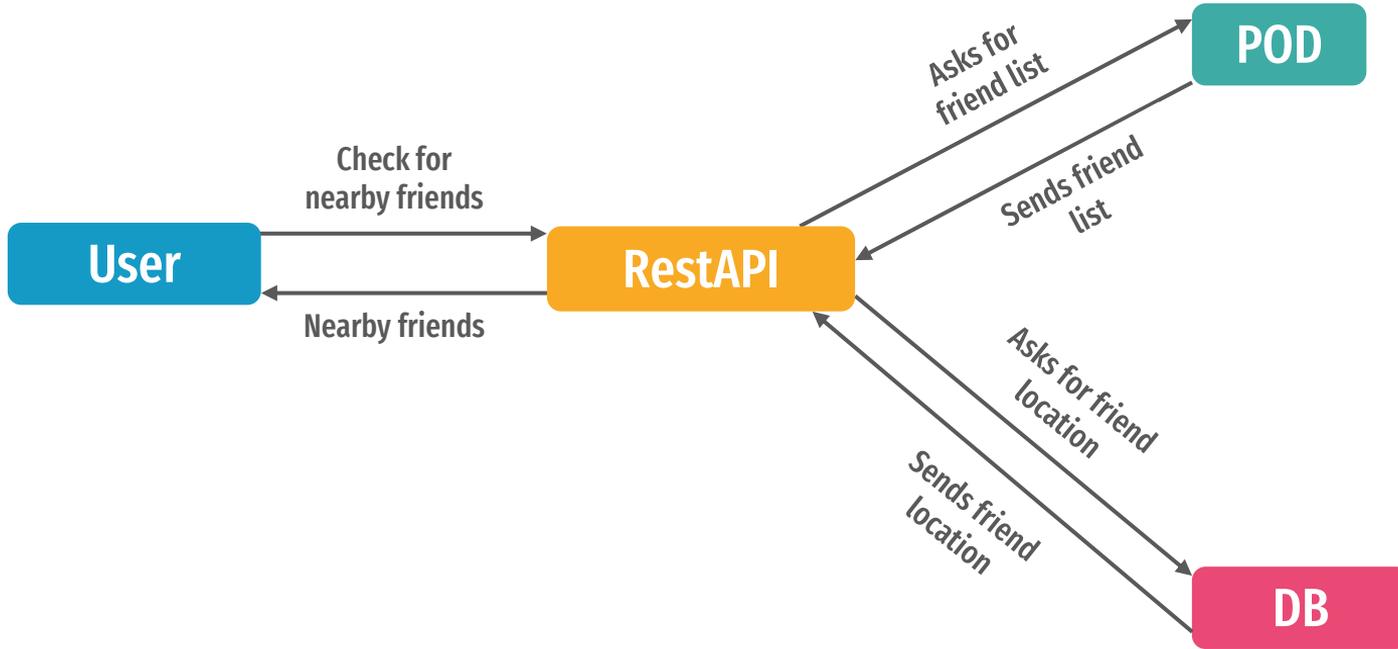
Top 4 Quality attributes



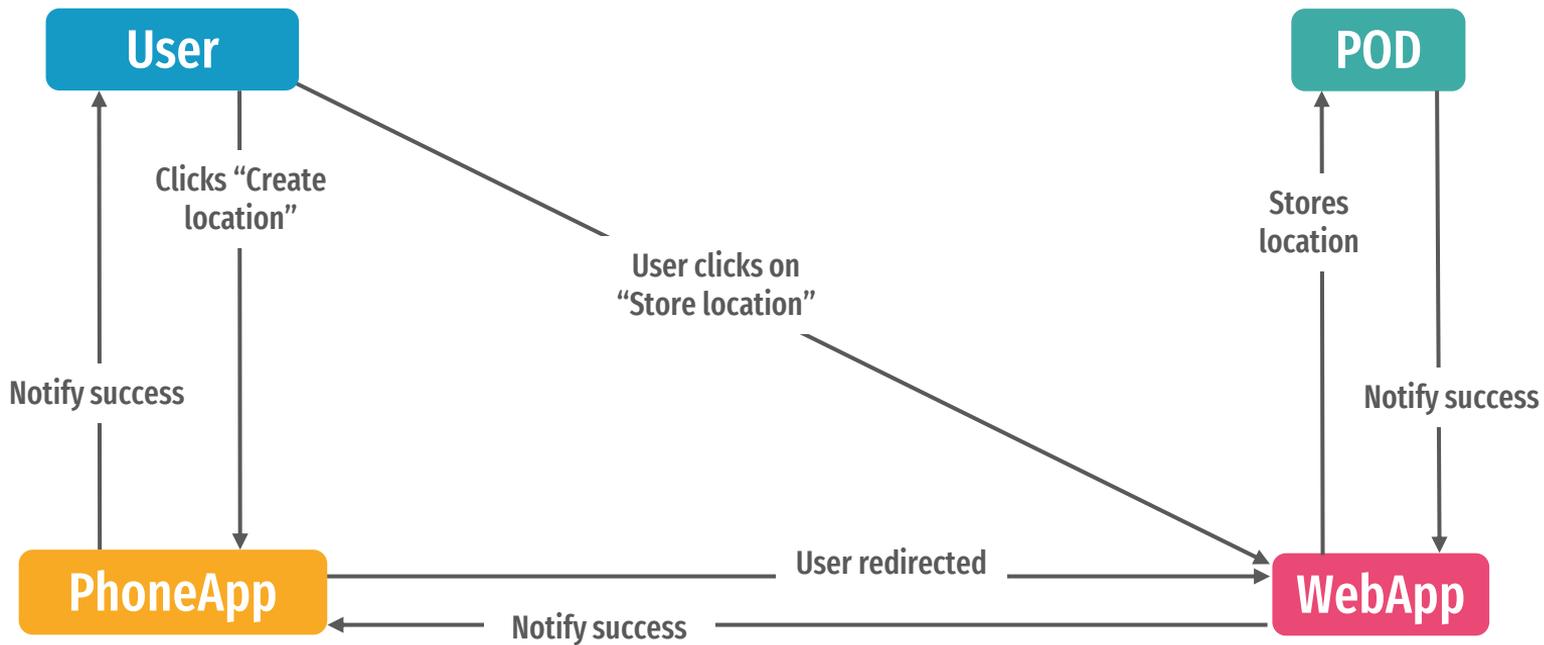
Architecture



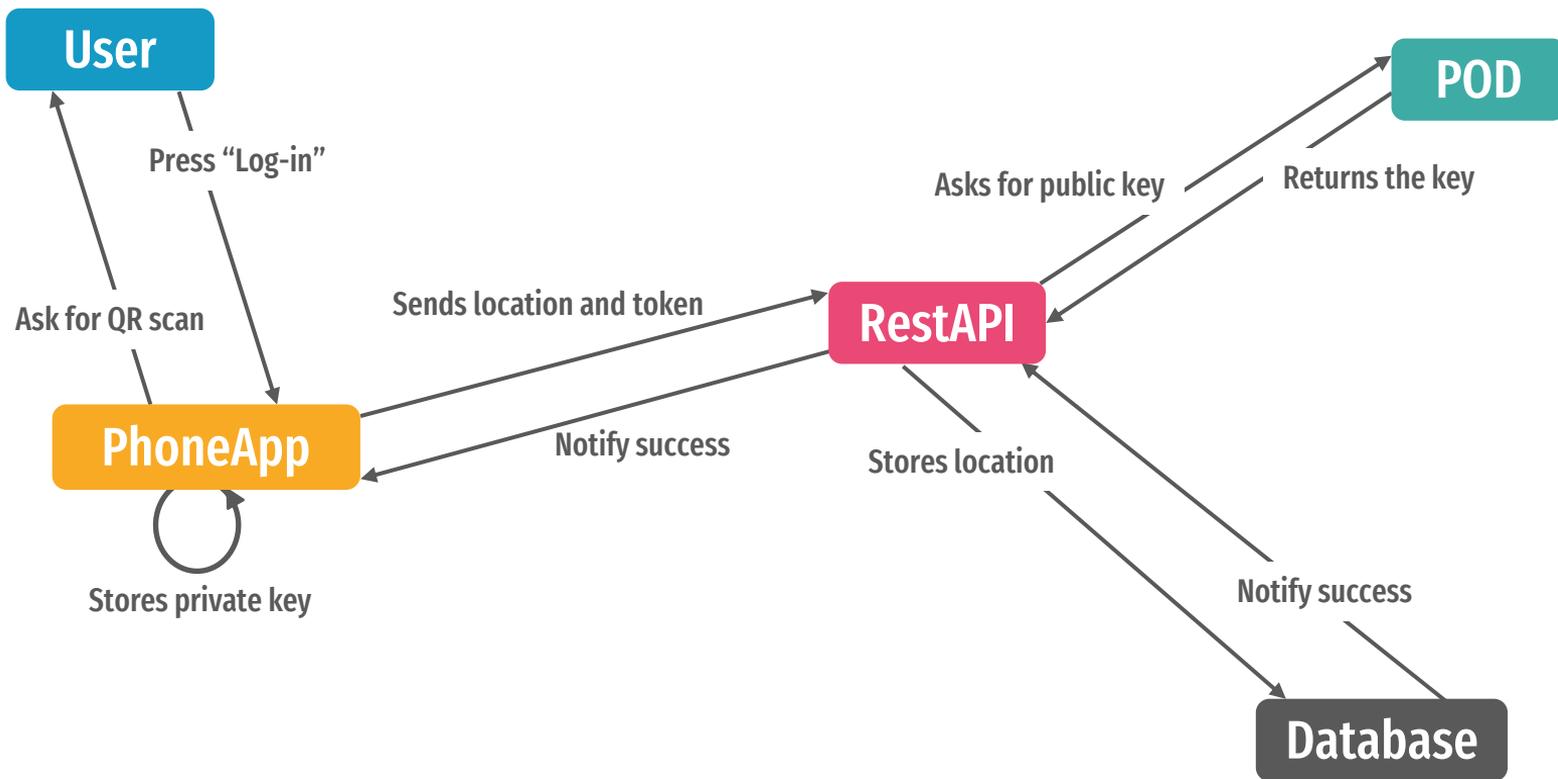
Backend: Friends and distance



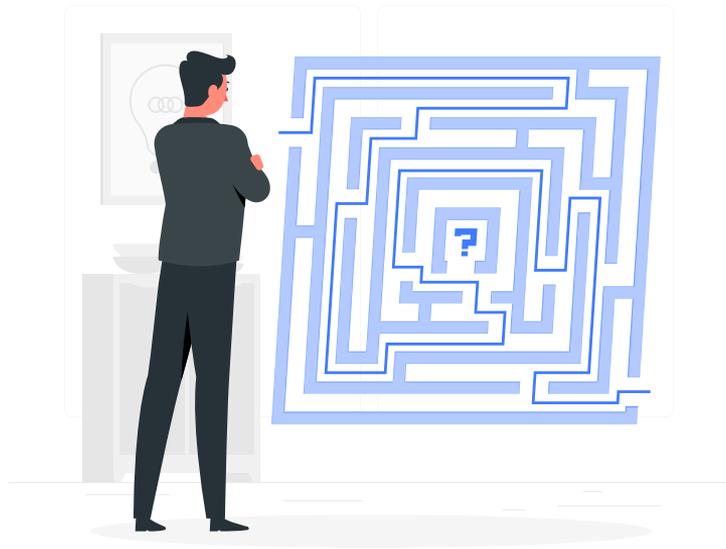
Backend: Locations



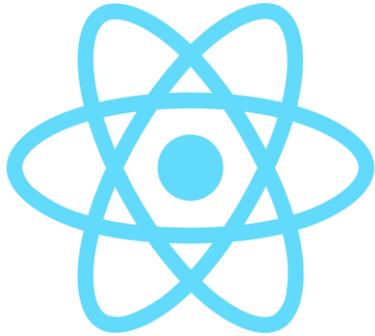
Backend: Locations



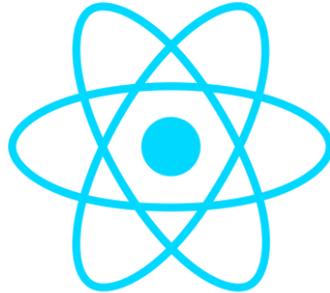
Strategies



React - Native - Redux



+



React Native

+





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

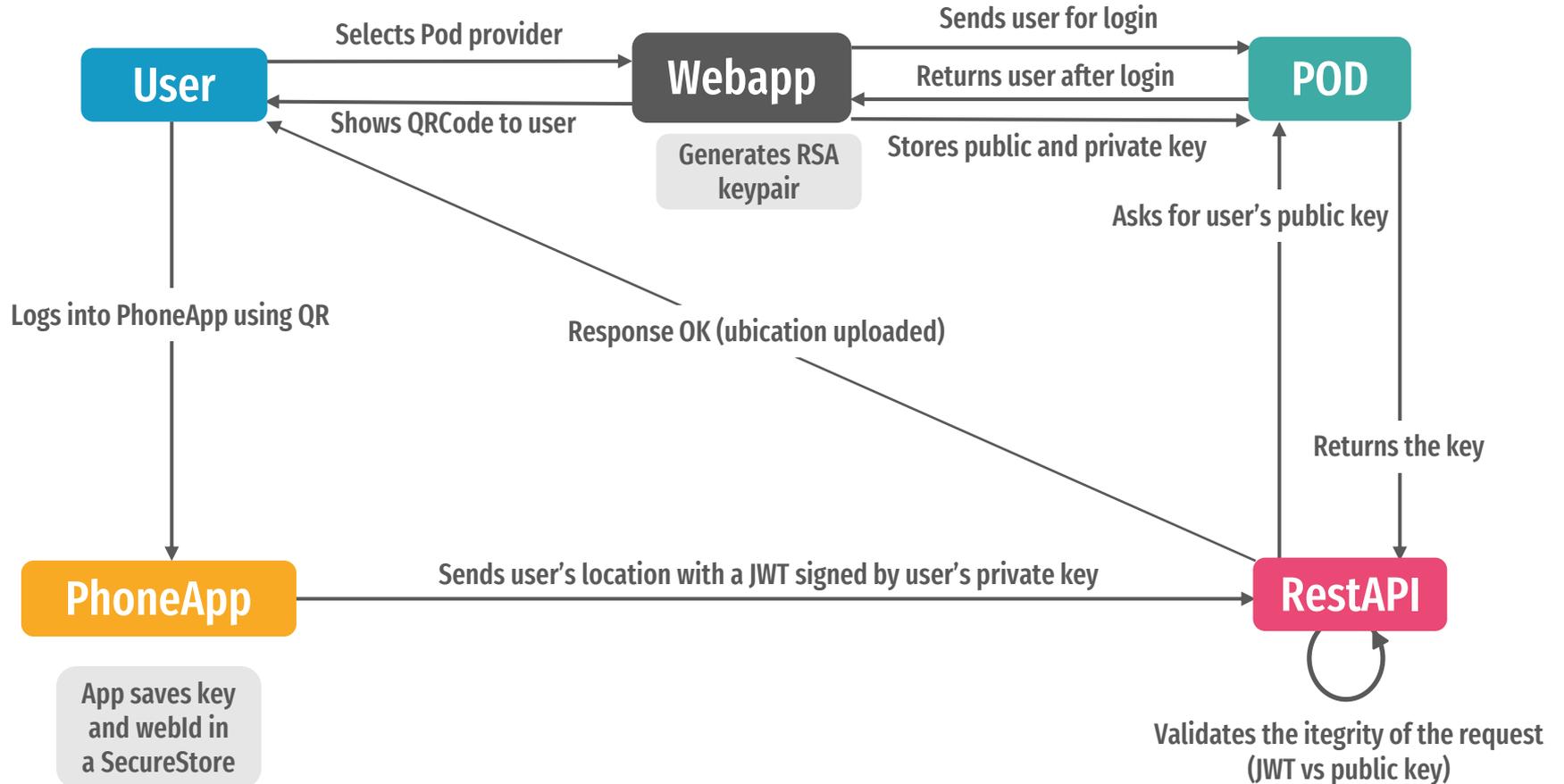


The user can scan the QR from his mobile to log into the application

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

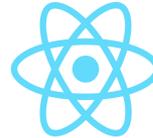
End-to-End



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Unitary



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Load

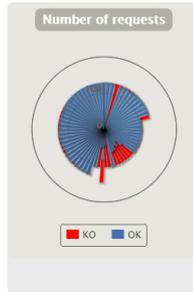
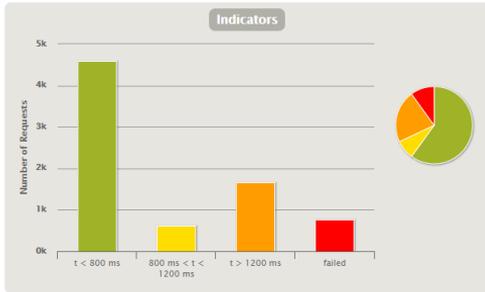


Tests results



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

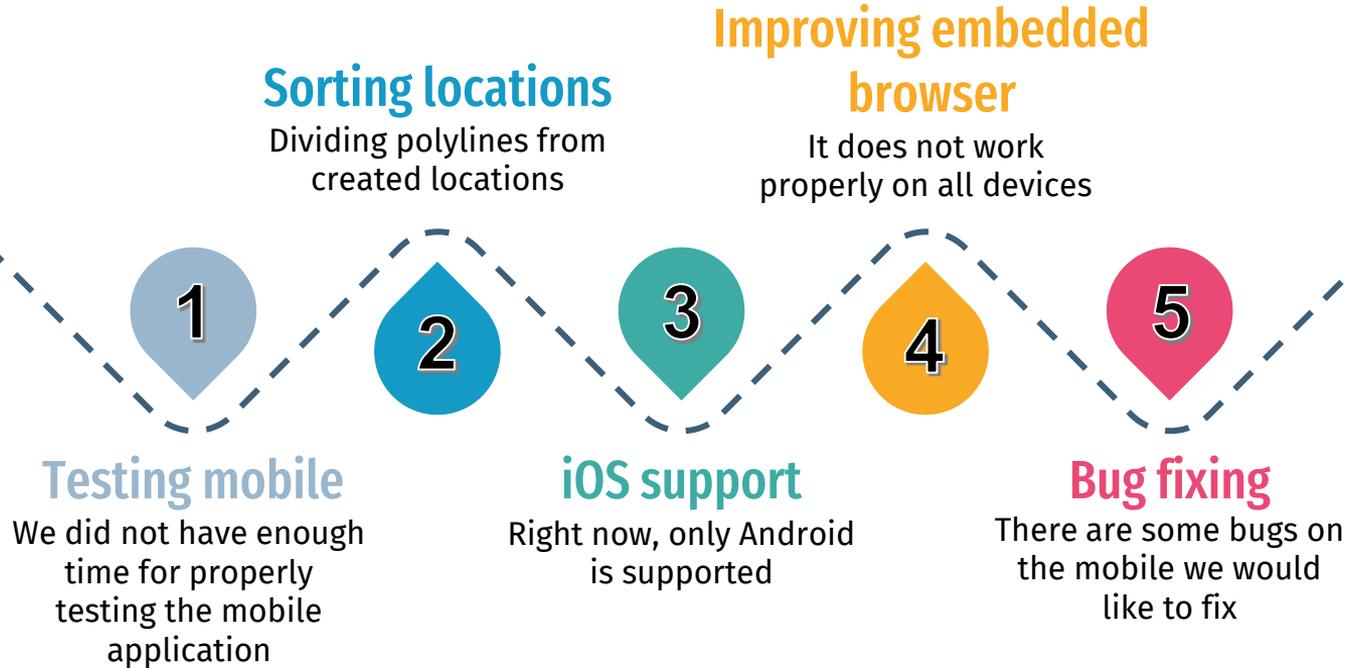
Revised

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.

