



Where software concepts come alive™

Business Domain

Communications and Networks

Project Type

Android App

Mesh Networking Software to Share an Internet Connection Developed in 8 Months

Client

The Client is a small startup made up of professionals aiming to launch an innovative project on the edge of tech and crypto.

Project

The development of an iOS/Android app to turn a phone into a hotspot and combine connected devices into one network using the peer-to-peer (p2p) method.

Objective

To create an application that allows users to share a Wi-Fi connection and connect through nearby network providers to access affordable Internet connectivity. To launch a Beta version of the Android app in Brazil on time.

Team Reinforcement

The Client needed development assistance to create a mesh network and release a high-level protocol exclusively for mobile devices. The Intetics team joined the project in March 2022.

Challenge

The startup aimed to develop an app to share an Internet connection and build a mesh network exclusively on mobile platforms.

The Client had several goals to accomplish:

- Create POC for Android and iOS
- Introduce MVP for Android
- Launch a Beta in Brazil

They faced several hardware and software obstacles in creating a proprietary high-level network protocol and mesh network on mobile platforms - which required more engineers.

Quick Facts

- ✓ The Client cooperated with Intetics on several projects
- ✓ The Beta version was delivered in 8 months

Technologies

Android / Jetpack Compose / VPN, Sockets / Kotlin / Coroutines / Room / Wi-Fi Direct / Wi-Fi Aware / Connections API / Location API / Firebase API

Solution

★ 01

50 Beta users can create a mesh network from their Android devices.

★ 02

An iOS POC was successfully created for further iOS solution development.

★ 03

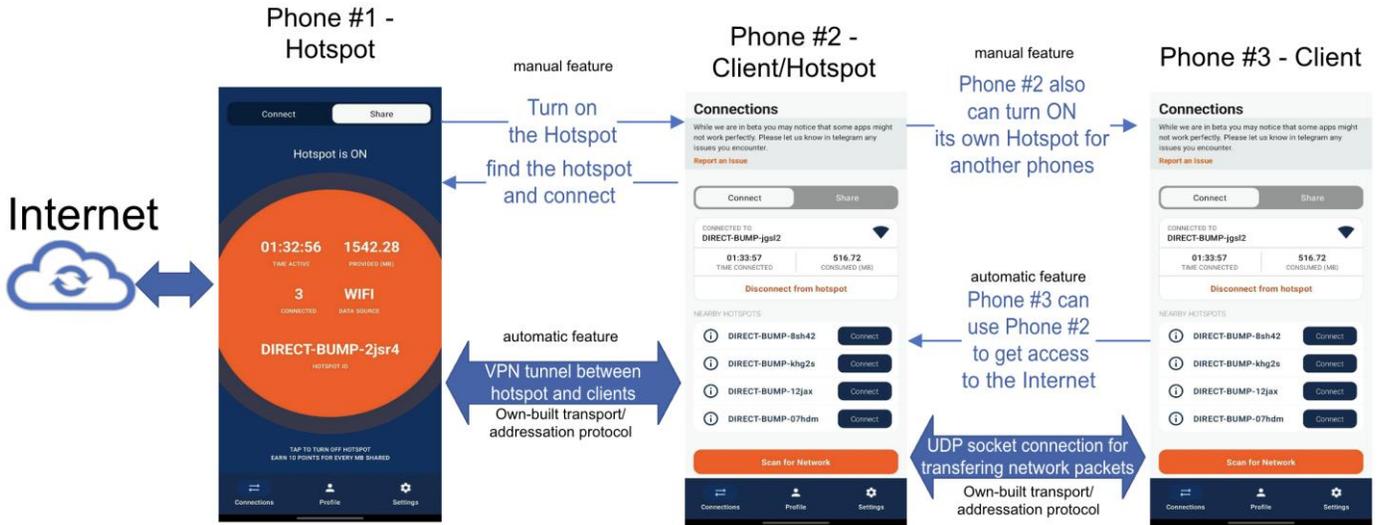
The more traffic a user distributes, the more rewards they receive – currently, these are bonus points, but they will include cryptocurrency in the future.

★ 04

Users can broadcast a Wi-Fi hotspot from their devices for others to connect to and/or organize a p2p network. All traffic is secured and under its own VPN server. All shared data session stats are accumulated for future rewards.

★ 05

The Android and iOS solutions were mostly built by the Intetics team.



Client Reference



In cooperation with Intetics, we were able to launch the Beta version of the Android app on time. The app successfully passed Beta testing in Brazil, with 50 engaged Beta users.

CTO

Benefits and Results

- ★ The well-thought-out architecture and successfully implemented solutions based on development best practices allowed the Client to launch the MVP Android app on time.
- ★ Internet traffic is shared both on browsers and smartphone systems.
- ★ The Beta version, with 50 Beta users involved, successfully passed testing in Brazil.
- ★ Cooperation between the Client and Intetics began in March 2022. The Beta version of the app was launched in November 2022.

Techstack:

Android, Jetpack Compose, VPN, Sockets, Kotlin, Coroutines, Room, Wi-Fi Direct, Wi-Fi Aware, Connections API, Location API, Firebase API

Team: 7

1 Project Manager,
1 Team Lead,
3 Android Developers,
2 Backend Developers